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The primary ANTLR guy:

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## 1.3 xalan 2.7.2

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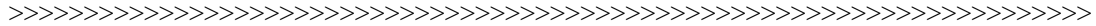
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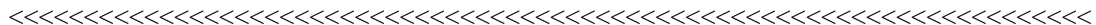
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## 1.18 buffer-xor 1.0.3

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## 1.21 minimalistic-crypto-utils 1.0.1

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# minimalistic-crypto-utils

[![Build Status](https://secure.travis-ci.org/indutny/minimalistic-crypto-utils.svg)](http://travis-

ci.org/indutny/minimalistic-crypto-utils)

[![NPM version](https://badge.fury.io/js/minimalistic-crypto-utils.svg)](http://badge.fury.io/js/minimalistic-crypto-utils)

Very minimal utils that are required in order to write reasonable JS-only crypto module.

## Usage

```
```js
const utils = require('minimalistic-crypto-utils');
```

```
utils.toArray('abcd', 'hex');
utils.encode([ 1, 2, 3, 4 ], 'hex');
utils.toHex([ 1, 2, 3, 4 ]);
```
```

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[0]: <http://tools.ietf.org/html/rfc6979>

[1]: <https://github.com/indutny/bn.js>

[2]: <https://github.com/indutny/hash.js>

[3]: <https://github.com/bitchan/eccrypto>

[4]: <https://github.com/wanderer/secp256k1-node>

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## 1.22 objenesis 2.6

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# 1.26 sensible-utils 0.0.12

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## 1.27 good-listener 1.2.2

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```
# good-listener
```

```
![Build Status](http://img.shields.io/travis/zenorocha/good-listener/master.svg?style=flat)(https://travis-ci.org/zenorocha/good-listener)
```

> A more versatile way of adding & removing event listeners.

```
![good listener](https://cloud.githubusercontent.com/assets/398893/10718224/dfc25f6c-7b2a-11e5-9d3d-75b35e8603c8.jpg)
```

```
## Install
```

You can get it on npm.

```
...
```

```
npm install good-listener --save
```

```
...
```

Or bower, too.

```
...
```

```
bower install good-listener --save
```

```
...
```

If you're not into package management, just [download a ZIP](https://github.com/zenorocha/good-listener/archive/master.zip) file.

## ## Setup

### ##### Node (Browserify)

```
```js
var listen = require('good-listener');
```
```

### ##### Browser (Standalone)

```
```html
<script src="dist/good-listener.js"></script>
```
```

## ## Usage

### ### Add an event listener

By passing a string selector [(see full demo)](<https://github.com/zenorocha/good-listener/blob/master/demo/selector.html>).

```
```js
listen('.btn',
  'click', function(e) {
    console.log(e);
  });
```
```

Or by passing a HTML element [(see full demo)](<https://github.com/zenorocha/good-listener/blob/master/demo/node.html>).

```
```js
var logo = document.getElementById('logo');

listen(logo, 'click', function(e) {
  console.log(e);
});
```
```

Or by passing a list of HTML elements [(see full demo)](<https://github.com/zenorocha/good-listener/blob/master/demo/nodelist.html>).

```
```js
var anchors = document.querySelectorAll('a');

listen(anchors, 'click', function(e) {
  console.log(e);
});
```
```

...

### ### Remove an event listener

By calling the `destroy` function that returned from previous operation [(see full demo)](<https://github.com/zenorocha/good-listener/blob/master/demo/destroy.html>).


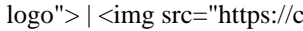
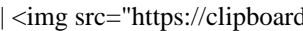



```
```js
```

```
var listener = listen('.btn', 'click', function(e) {  
  console.log(e);  
});
```

```
listener.destroy();
```

...

### ## Browser Support

					
Latest	Latest	Latest	9+	Latest	Latest

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Found in path(s):

\* /opt/cola/permits/183456884\_1695335704.741086/0/1369-good-listener-1-2-2-tgz/package/readme.md

## 1.28 select 1.1.2

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```
# select
```

```
[![Build Status](http://img.shields.io/travis/zenorocha/select/master.svg?style=flat)](https://travis-ci.org/zenorocha/select)
```

Programmatically select the text of a HTML element.

```
## Install
```



You can get it on npm.

```
...
```

```
npm install select --save
```

```
...
```

Or bower, too.

```
...
```

```
bower install select --save
```

```
...
```

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```
## Usage
```

```
### Standalone
```

```
```html
```

```
<script src="dist/select.js"></script>
```

```
```
```

```
```js
```

```
var input = document.querySelector('input');
```

```
var result = select(input);
```

```
```
```

```
### Browserify
```

```
```js
```

```
var select = require('select');
```

```
```
```

```
```js
```

```
var input = document.querySelector('input');
```

```
var result = select(input);
```

```
```
```

```
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```

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# 1.29 httpasyncclient 4.1.4

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## 1.40 commons-collections 4.2

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Section

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\*/

## 1.48 stream-browserify 2.0.2

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# 1.50 commons-http-client 3.1

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## 1.54 batik-util 1.11

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## 1.60 okio 1.17.2

## 1.61 antisamy 1.5.8

## 1.62 reflectasm 1.11.3

## 1.63 jcip-annotation 1.0-1

## 1.64 native 1.2.16

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**1.87 ribbon-httpclient 2.3.0**

**1.88 hystrix-serialization 1.5.18**

**1.89 hystrix-javanica 1.5.18**

## 1.90 hystrix-metrics-event-stream 1.5.18

## 1.91 delight-nashorn-sandbox 0.1.19

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- \* /opt/cola/permits/1001689035\_1607385153.08/0/kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/serializers/TaggedFieldSerializerConfig.java

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jar/com/esotericsoftware/kryo/serializers/ClosureSerializer.java

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jar/com/esotericsoftware/kryo/serializers/AsmCachedFieldFactory.java

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jar/com/esotericsoftware/kryo/io/InputChunked.java

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* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/Serializer.java
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* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-
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* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-

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jar/com/esotericsoftware/kryo/util/IntArray.java
* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-
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* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-
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* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-
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* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/io/Output.java
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* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/util/Util.java
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* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-
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* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-
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jar/com/esotericsoftware/kryo/factories/ReflectionSerializerFactory.java
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* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-
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* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-
jar/com/esotericsoftware/kryo/KryoException.java

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* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-
jar/com/esotericsoftware/kryo/serializers/MapSerializer.java
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* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-
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* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-
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* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-
jar/com/esotericsoftware/kryo/serializers/FieldSerializerUnsafeUtilImpl.java
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jar/com/esotericsoftware/kryo/serializers/TimeSerializers.java
* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-
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* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-
jar/com/esotericsoftware/kryo/serializers/OptionalSerializers.java
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```

```
/** A few utility methods for using @link{sun.misc.Unsafe}, mostly for private use.
```

```
*
```

```
* Use of Unsafe on Android is forbidden, as Android provides only a very limited functionality for this class compared to the JDK
```

```
* version.
```

```
*
```

```
* @author Roman Levenstein <romixlev@gmail.com> */
```

```
Found in path(s):
```

```
* /opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-
jar/com/esotericsoftware/kryo/util/UnsafeUtil.java
```

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Found in path(s):

```
*/opt/cola/permits/1001689035_1607385153.08/0/kryo-4-0-2-sources-jar/com/esotericsoftware/kryo/io/Util.java
```

## 1.94 kryo 4.0.2

## 1.95 keyutils 1.6-6

### 1.95.1 Available under license :

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## 1.98 kryo-serializers 0.45

## 1.99 not-going-to-be-commons-ssl 0.3.20

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File: src/main/java/org/apache/commons/ssl/ASN1Util.java

Changes:

Removing Bouncy Castle classes and linking to the JAR instead.

File: src/main/java/org/apache/commons/ssl/KeyStoreBuilder.java

Changes: Fixing tryJKS to correctly return null for a potential PKCS12 file with no key entry. This happens with cacerts in Java 9+ because of the changes in JEP 229, because both JKS and PKCS12 files can now be loaded using either the JKS or PKCS12 keystore type.

Replacing direct System.out calls with Logger calls.

Removing Bouncy Castle classes and linking to the JAR instead.

File: src/main/java/org/apache/commons/ssl/PKCS8Key.java

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

File: src/main/java/org/apache/commons/ssl/\*

Changes: Replacing direct printStackTrace calls with Logger calls, remove logging "abstraction".

Files: src/main/java/org/apache/commons/ssl/org/bouncycastle/\*

Changes: Removing

Bouncy Castle classes and linking to the JAR instead.

---

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Apache Commons HttpClient 3.0.1

Apache Commons Logging 1.2

Byte Buddy 1.8.8

Objenesis 2.5.1

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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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jar/jnr/constants/platform/ConstantResolver.java
* /opt/cola/permits/1004479395_1646171703.62/0/jnr-constants-0-9-12-sources-
jar/com/kenai/constantine/Constant.java
* /opt/cola/permits/1004479395_1646171703.62/0/jnr-constants-0-9-12-sources-jar/jnr/constants/ConstantSet.java
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/opt/cola/permits/1004479395_1646171703.62/0/jnr-constants-0-9-12-sources-
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jar/com/kenai/constantine/platform/ConstantResolver.java
```

## 1.104 commons-beanutils 1.9.4

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```
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jar/javax/annotation/concurrent/Immutable.java  
* /opt/cola/permits/1006669954_1651085002.51/0/jsr305-3-0-2-sources-  
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## 1.112 jffi 1.2.19

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jar/jnr/posix/JavaSecuredFile.java

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jar/jnr/posix/DragonFlyPasswd.java

\* /opt/cola/permits/1009226690\_1654022916.1355052/0/jnr-posix-3-0-50-sources-jar/jnr/posix/AixPOSIX.java

\* /opt/cola/permits/1009226690\_1654022916.1355052/0/jnr-posix-3-0-50-sources-  
jar/jnr/posix/OpenBSDPOSIX.java

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* /opt/cola/permits/1009226690_1654022916.1355052/0/jnr-posix-3-0-50-sources-
jar/jnr/posix/FreeBSDPOSIX.java
* /opt/cola/permits/1009226690_1654022916.1355052/0/jnr-posix-3-0-50-sources-
jar/jnr/posix/OpenBSDFileStat.java
*
/opt/cola/permits/1009226690_1654022916.1355052/0/jnr-posix-3-0-50-sources-jar/jnr/posix/AixPasswd.java
* /opt/cola/permits/1009226690_1654022916.1355052/0/jnr-posix-3-0-50-sources-
jar/jnr/posix/FreeBSDPasswd.java
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jar/jnr/posix/FreeBSDFileStat12.java
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jar/jnr/posix/DragonFlyFileStat.java
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jar/jnr/posix/LinuxFileStat32.java
* /opt/cola/permits/1009226690_1654022916.1355052/0/jnr-posix-3-0-50-sources-
jar/jnr/posix/DragonFlyPOSIX.java
* /opt/cola/permits/1009226690_1654022916.1355052/0/jnr-posix-3-0-50-sources-
jar/jnr/posix/OpenBSDPasswd.java
*
/opt/cola/permits/1009226690_1654022916.1355052/0/jnr-posix-3-0-50-sources-jar/jnr/posix/AixFileStat.java
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\* /opt/cola/permits/1009226690\_1654022916.1355052/0/jnr-posix-3-0-50-sources-jar/jnr/posix/DefaultNativeGroup.java  
\* /opt/cola/permits/1009226690\_1654022916.1355052/0/jnr-posix-3-0-50-sources-jar/jnr/posix/util/Java5ProcessMaker.java

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\* /opt/cola/permits/1009226690\_1654022916.1355052/0/jnr-posix-3-0-50-sources-jar/jnr/posix/util/Platform.java  
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## 1.117 nspr 4.20-1

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```

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```
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```

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Any

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## 1.119 slf4j-log4j 1.7.25

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# 1.120 bouncy-castle 1.64

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The following organisations and people have contributed to the Bouncy Castle Cryptography Package.

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Thanks, may your castles never deflate!

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- <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-EDE 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&#064maxence.de&gt; - additional fix for partial reading with new style PGP packets.</li>
- <li>Fix Bernd (KCDP 11) &lt;bernd.fix&#064credit-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&#064embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.</li>
- <li>tu-vi cun &lt;t2cun&#064hotmail.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;bugbee&#064mac.com&gt; - initial ECNR implementation.</li>
- <li>Remi Blancher &lt;Remi.Blancher&#064keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.</li>
- <li>Brian O'Rourke &lt;brianorourke&#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-EDE 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@transacttools.net>; - Patch for trailer function in version 2 signature packets.</li>

<li>Kishimoto Kazuhiko &lt;kazu-k@hi-ho.ne.jp>; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.</li>

<li>Lawrence Tan &lt;lwrnctan@gmail.com> - Large field OID sample test data. Missing key types in JDKKeyFactory.</li>

<li>Carlos Valiente &lt;superdupont@gmail.com>; - Addition of CRL writing to the PEMWriter class.</li>

<li>Keyon AG, Martin Christinat, <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@bluewin.ch>; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.</li>

<li>Jörg Eichhorn &lt;eichhorn@ponton-consulting.de>; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.</li>

<li>Karsten Ohme &lt;widerstand@t-online.de>; - 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>

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@tradise.com>; - patch for &lt;ctrl>&lt;m>; only handling in CRLFOutputStream.</li>

<li>John Alfred Prufrock &lt;j.a.prufrock@gmail.com>; - mods to GOST-3411 and MD2 to support ExtendedDigest.</li>

<li>Stefan Neusatz Guilhen &lt;sneusatz@gmail.com>; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.</li>

<li>Marzio Lo Giudice &lt;marzio.logiudice@gmail.com>; - fix to endianness in KDF2BytesGenerator, additional KDF2 tests.</li>

<li>Georg Lippold &lt;georg.lippold@gmx.de>; - initial implementation of NaccacheStern cipher.</li>

<li>Chris Viles &lt;chris\_viles@yahoo.com>; - fix to SignatureSubpacket critical bit setting.</li>

<li>Pasi Eronen &lt;Pasi.Eronen@nokia.com>; - extra toString() support for ASN.1 library. Initial patch for large OID components.</li>

<li>Lijun Liao &lt;https://github.com/xipki>; performance enhancements for SHA family of digests. Bug report and patch for blank line handling in ArmoredInputStream. 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 > 30 in ASN.1 parsing.</li>
- <li>Armin H&auml;berling &lt;arminha@#064student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.</li>
- <li>Marius Schilder &lt;mschilder@#064google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.</li>
- <li>Xavier Le Vourch &lt;xavier@#064brittanysoftware.com&gt; - general code clean ups.</li>
- <li>Erik Tews &lt;e\_tews@#064cdc.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding</li>
- <li>Thomas Dixon &lt;reikomusha@#064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.</li>
- <li>Frank Cornelis &lt;info@#064frankcornelis.be&gt;; - addition of crlAccessMethod in X509ObjectIdentifiers.</li>
- <li>Rui Joaquim &lt;rjoaquim@#064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.</li>
- <li>David Stacey &lt;DStacey@#064allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.</li>
- <li>Martijn Brinkers &lt;list@#064mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.</li>
- <li>Julius Davies &lt;juliusdavies@#064gmail.com&gt; - additional modes and algorithm support in PEMReader</li>
- <li>Matthias &lt;g@#064rtner.de&gt; - GnuPG compatibility changes for PBEFileProcessor.</li>
- <li>Olga K&auml;thler &lt;olga.kaethler@#064hjp-consulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.</li>
- <li>Germano Rizzo &lt;germano.rizzo@#064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.</li>
- <li>N&uacute;ria Mar&iacute; &lt;numaa@#064hotmail.com&gt; - patch for alternate data type recognition in CMSSignedDataParser.</li>
- <li>Janis Schuller &lt;js@#064tzi.de&gt; - addition of NotationData packets for OpenPGP.</li>
- <li>Michael Samblanet &lt;mike@#064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.</li>
- <li>Mike StJohns &lt;mstjohns@#064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.</li>
- <li>Ramon Keller &lt;ramon.keller@#064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.</li>
- <li>Mark Nelson &lt;mark@#064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.</li>
- <li>Eugene Golushkov &lt;eugene\_gff@#064ukr.net&gt; - mask fix to single byte read in TlsInputStream.</li>
- <li>Julien Pasquier &lt;julienpasquier@#064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.</li>
- <li>Peter Knopp &lt;pknopp@#064mtg.de&gt; - fix for named curve recognition in ECGOST key generation.</li>
- <li>Jakub Gwozdz &lt;gwozdz@#064rpg.pl&gt; - addition of getTsa() to TimeStampTokenInfo.</li>
- <li>Bartosz Malkowski &lt;bmalkow@#064tigase.org&gt; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.</li>
- <li>Tal Yacobi &lt;tal.yacobi@#064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].</li>
- <li>Massimiliano Ziccardi &lt;massimiliano.ziccardi@#064gmail.com&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in

CertificateFactory.</li>  
<li>Andrey Pavlenko &lt;andrey.a.pavlenko@064gmail.com&gt; - security manager patch for PKCS1Encoding property check.</li>  
<li>J Ross Nicoll &lt;jrn@064jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.</li>  
<li>Matthew Stevenson &lt;mavricknz@064yahoo.com&gt; - patch to construtor for CRMF CertSequence.</li>  
<li>Gabriele Contini &lt;gcontini@064hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEF's.</li>  
<li>Roelof Naude &lt;roelof.naude@064epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP\_CERTIFICATE\_REQUEST.</li>  
<li>Patrick Peck &lt;peck@064signaturen.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.</li>  
<li>Michael LeMay &lt;lemaymd@064lemaymd.com&gt; - identified problem with EAX [#BJA-93].</li>  
<li>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]</li>  
<li>Michael Schoene &lt;michael@064sigrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li>  
<li>Ion Larra&ntilde;aga &lt;ilarra@064s21sec.com&gt; fix to default partial packet generation in BCPGOutputStream.</li>  
<li>Bob Kerns &lt;bob.kerns@064positscience.com&gt; fix to hashCode for X509CertificateObject.</li>  
<li>Stefan Meyer &lt;stefan.meyer@064ewe.de&gt; backport for PKIXCertPathValidator and SMIMESignedMailReviewer.</li>  
<li>Robert J. Moore &lt;Robert.J.Moore@064allanbank.com&gt; speedups for OpenPGPCFB mode, clean room JCE patches.</li>  
<li>Rui Hodai &lt;rui@064po.ntts.co.jp&gt; speed ups for Camellia implementation, CamelliaLightEngine.</li>  
<li>Emir Bucalovic &lt;emir.bucalovic@064mail.com&gt; initial implementation of Grain-v1 and Grain-128.</li>  
<li>Torbjorn Svensson &lt;tobbe79@064gmail.com&gt; initial implementation of Grain-v1 and Grain-128.</li>  
<li>Paul FitzPatrick &lt;bouncycastle\_pfitz@064fitzpatrick.cc&gt; error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.</li>  
<li>Henrik Andersson &lt;k.henrik.andersson@064gmail.com&gt; addition of UniqueIssuerID to certificate generation.</li>  
<li>Cagdas Cirit &lt;cagdasirit@064gmail.com&gt; subjectAlternativeName fix for x509CertStoreSelector.</li>  
<li>Harakiri &lt;harakiri\_23@064yahoo.com&gt; datahandler patch for attached parts in SMIME signatures.</li>  
<li>Pedro Henriques &lt;pmahenriques@064gmail.com&gt; explicit bounds checking for DESKeyGenerator, code simplification for OAPEncoding.</li>  
<li>Lothar Kimmeringer &lt;job@064kimmeringer.de&gt; verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for S/MIME API.</li>  
<li>Richard Farr &lt;rfarr.se@064gmail.com&gt; initial SRP-6a implementation.</li>  
<li>Thomas Castiglione &lt;castiglione@064au.ibm.com&gt; patch to encoding for CRMF OptionalValidity.</li>  
<li>Elisabetta Romani &lt;eromani@064sogei.it&gt; patch for recognising multiple counter signatures.</li>  
<li>Robin Lundgren &lt;r737lundgren@064gmail.com&gt; CMPCertificate constructor from X509CertificateStructure fix.</li>  
<li>Petr Kadlec &lt;mormegil@064centrum.cz&gt; fix to sign extension key and IV problem in HC-128, HC-256.</li>

<li>Andreas Antener &lt;antener\_a@#064gmx.ch&gt; fix to buffer reset in AsymmetricBufferedBlockCipher.</li>  
<li>Harendra Rawat &lt;hsrawat@#064yahoo.com&gt; fix for BERConstructedOctetString.</li>  
<li>Rolf Lindemann &lt;lindemann@#064trustcenter.de&gt; patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].</li>  
<li>Alex Artamonov &lt;alexart.home@#064gmail.com&gt; name look up patch for GOST-2001 parameters.</li>  
<li>Mike Lyons &lt;mlyons@#064layer7tech.com&gt; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.</li>  
<li>Chris Cole &lt;chris\_h\_cole@#064yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore.</li>  
<li>Tomas Krivanek &lt;tom@#064atack.cz&gt; added checking of Sender header to SignedMailValidator.</li>  
<li>Michael &lt;emfau@#064t-online.de&gt; correction of field error in getResponse method in CertRepMessage.</li>  
<li>Trevor Perrin &lt;trevor@#064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.</li>  
<li>Markus Kil&aring;s &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 PKCS10 and certificate generation support.</li>  
<li>Frank Cornelis &lt;info@#064frankcornelis.be&gt; additional support classes for CADES, enhancements to OCSP classes.</li>  
<li>Jan Dittberner &lt;jan@#064dittberner.info&gt; addHeader patch for SMIME generator.</li>  
<li>Bob McGowan &lt;boab.mcgoo@#064btinternet.com&gt; patch to support different object and mgf digests in PSS signing.</li>  
<li>Ivo Matheis &lt;i.matheis@#064seeburger.de&gt; fix to padding verification in ISO-9796-1.</li>  
<li>Marco Sandrini &lt;nessche@#064gmail.com&gt; patch to add IV to ISO9797Alg3Mac.</li>  
<li>Alf Malf &lt;alfilmalf@#064hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.</li>  
<li>Alfonso Massa &lt;alfonso.massa@#064insiel.it&gt; contributions to CMS time stamp classes.</li>  
<li>Giacomo Boccardo &lt;gboccardo@#064unimaticaspa.it&gt; initial work on CMSTimeStampedDataParser.</li>  
<li>Arnis Tartu &lt;arnis@#064ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.</li>  
<li>Janusz Sikociski &lt;J.Sikocinski@#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@#064hjp-consulting.com&gt; fine tuning of code for DHParameters validation.</li>  
<li>Shawn Willden &lt;swillden@#064google.com&gt; additional functionality to PGPKKeyRing.</li>  
<li>Atanas Krachev &lt;akrachev@#064gmail.com&gt; added support for revocation signatures in OpenPGP.</li>  
<li>Mickael 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&#064bers-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.</li>
- <li>Andy Neilson &lt;Andy.Neilson&#064quest.com&gt;a further patches to deal with multiple providers and PEMReader.</li>
- <li>Ted Shaw &lt;xiao.xj&#064gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.</li>
- <li>Eleriseth &lt;Eleriseth&#064WPECGLtYbVi8Rl6Y7Vzl2Lvd2EUUVW99v3yNV3IWROG8.fms&gt; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.</li>
- <li>Kenny Root &lt;kenny&#064the-b.org&gt; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.</li>
- <li>Maarten Bodewes &lt;maarten.bodewes&#064gmail.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.</li>
- <li>Philip Clay &lt;pilf\_b&#064yahoo.com&gt; Initial implementation of J-PAKE.</li>
- <li>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.</li>
- <li>Samuel Lid&eacute;n Borell &lt;samuel&#064primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder</li>
- <li>Sergio Demian Lerner &lt;sergiolerner&#064certimix.com&gt; pointing out isInfinity issue in ECDSASigner signature verification.</li>
- <li>Tim Whittington &lt;Tim.Whittington&#064orionhealth.com&gt; patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.</li>
- <li>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.</li>
- <li>Andrey Zhozhin &lt;zhozhin&#064xrm.ru&gt; patch for override of TSP SignerInfo attributes.</li>
- <li>Sergey Tiunov &lt;t5555d&#064gmail.com&gt; initial cut of DVCS classes.</li>
- <li>Damian Kolasa &lt;fatfredy&#064gmail.com&gt;

ASN1Sequence patch for class cast issue in X9Curve.</li>  
<li>Ash Hughes &lt;ashley.hughes@blueyonder.co.uk>; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().</li>  
<li>Daniel Hirscher &lt;dev@daniel-hirscher.de>; patch to support parsing of explicit EC parameters in PEM files.</li>  
<li>Daniele Ricci &lt;daniele.athome@gmail.com>; initial implementation of EC keys for OpenPGP and RFC6637 support.</li>  
<li>Matti Aarnio &lt;matti.aarnio@methics.fi>; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.</li>  
<li>Babak Najafi &lt;bnajafi@akamai.com>; fixes to OpenPGP NotationData to prevent truncation problems.</li>  
<li>Eric Mueller &lt;eric.mueller@sage.de>; additional standard algorithm name lookups in JcaPEMKeyConverter.</li>  
<li>Mathias Herberts &lt;Mathias.Herberts@gmail.com>; fix to inOff usage in RFC3394WrapEngine.</li>  
<li>Daniil Ivanov &lt;daniil.ivanov@gmail.com>; addition of provider support for GOST HMAC SecretKeyFactory.</li>  
<li>Daniele Grasso &lt;daniele.grasso86@gmail.com>; contributions to final Key calculation code for SRP6.</li>  
<li>Andrey Utkin &lt;cindrhc@gmail.com>; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.</li>  
<li>Arnis Tartu &lt;arnis@ut.ee>; checker for generated key vs OID in JceCMSContentEncryptorBuilder.</li>  
<li>Axel VDB &lt;axel-vdb@riseup.net>; initial implementation of Shacal2.</li>  
<li>Roberto Tyley &lt;>; further work on completing gradle build.</li>  
<li>Waldemar Dick &lt;wdick@devmue.de>; code improvement in x500 ASN.1 package.</li>  
<li>Sid Steward &lt;sid.steward@pdflabs.com>; code improvements to ASN1Boolean.</li>  
<li>Alex Klyubin &lt;klyubin@google.com>; AlgorithmParameters check for EC key agreement.</li>  
<li>Jonathan Gillett &lt;gsoc.student@gmail.com>; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.</li>  
<li>Andreas Reiter &lt;andreas.reiter@iaik.tugraz.at>; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.</li>  
<li>Kieran Miller &lt;kieran.miller@gmail.com>; initial implementation for RFC 5649 key wrap with padding.</li>  
<li>Oliver Ehli &lt;ehli@arago.de>; Additional support for BSI plain ECDSA in the provider.</li>  
<li>Daniel Heldt &lt;Daniel.Heldt@cryptovision.com>; Initial support for encodable state message digests</li>  
<li>Robert Bushman &lt;bouncycastle@traxel.com>; Clean up of DirectKeySignature example.</li>  
<li>Maurice Aarts &lt;aarts@riscure.com>; updated to KDF generator to follow NIST SP 800-108.</li>  
<li>Franziskus Kiefer &lt;https://github.com/franziskuskiefer>; initial implementation of Cramer-Shoup.</li>  
<li>KB Sriram &lt;mail\_kb@yahoo.com>; testing for odd encodings for PGP User Attribute Subpackets.</li>  
<li>Marco Schulze &lt;marco@nightlabs.de>; Reported verification bug in GenericSigner.</li>  
<li>Martin Schaefer &lt;https://github.com/martinschaefer>; contributed a code-cleanup patch.</li>  
<li>dstutz &lt;https://github.com/dstutz>; added iteration count setters to PKCS#12 PBE mac/key generator

builders.</li>  
<li>Tobias Wich< a href="mailto:tobias.wich@ecsec.de" >tobias.wich@ecsec.de< /a>; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.</li>  
<li>Hauke Mehrtens< a href="mailto:hauke@hauke-m.de" >hauke@hauke-m.de< /a>; TLS patch to add ECDHE\_ECDSA CCM ciphersuites from RFC 7251.</li>  
<li>Daniel Zimmerman< a href="mailto:dmz@galois.com" >dmz@galois.com< /a>; Further key quality improvements to RSAKeyPairGenerator.</li>  
<li>Jens Kapitzka< a href="mailto:j.kapitzka@schwarze-allianz.de" >j.kapitzka@schwarze-allianz.de< /a>; Iterable support in OpenPGP API, code cleanup in OpenPGP API.</li>  
<li>Johan Eklund< a href="mailto:johan@primekey.se" >johan@primekey.se< /a>; update to RFC 6960 for OCSPObjectIdentifiers.</li>  
<li>nikosn< a href="https://github.com/nikosn" >https://github.com/nikosn< /a>; Fix to encoding of EC private keys to ensure encoding matches order length.</li>  
<li>Axel von dem Bruch < a href="mailto:axel-vdb@riseup.net" >axel-vdb@riseup.net< /a>; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.</li>  
<li>Derek Atkins < a href="mailto:derek@ihftf.com" >derek@ihftf.com< /a>; Documentation fixes to X9ObjectIdentifiers.</li>  
<li>Peter Jr Halicky < a href="mailto:peto@halicky.sk" >peto@halicky.sk< /a>; Correction to notification/error message handling in SignedMailValidator.</li>  
<li>IartiguePierre< a href="https://github.com/IartiguePierre" >https://github.com/IartiguePierre< /a>; Fix for counter signature SID in CMSSignedData.</li>  
<li>Thomas Belot< a href="mailto:thomas.belot@bc@gmail.com" >thomas.belot@bc@gmail.com< /a>; initial CertPathLoopTest for demonstrating stack overflow issue.</li>  
<li>Rich DiCroce< a href="https://github.com/rdicroce" >https://github.com/rdicroce< /a>; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>  
<li>Björn Kautler< a href="https://github.com/Vampire" >https://github.com/Vampire< /a>; Refinements to cert path validation (authority key addition, certificate order preservation).</li>  
<li>Dominik Schürmann< a href="https://github.com/dschuermann" >https://github.com/dschuermann< /a>; 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.</li>  
<li>Michael < a href="mailto:MSKnete@web.de" >MSKnete@web.de< /a>; initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.</li>  
<li>Tobias Wagner < a href="mailto:tobias.wagner@n-design.de" >tobias.wagner@n-design.de< /a>; Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].</li>  
<li>Sergio Giro < a href="mailto:sgiro@google.com" >sgiro@google.com< /a>; 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.</li>  
<li>bschuetter< a href="https://github.com/bschuetter" >https://github.com/bschuetter< /a>; Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.</li>  
<li>Leonard Dallot< a href="https://github.com/dallotTazTag" >https://github.com/dallotTazTag< /a>; Fix to S2K usage of none on changing passwords on keys without passwords originally.</li>  
<li>Jan Willem Janssen < a href="mailto:j.w.janssen@bouncycastle.nl" >j.w.janssen@bouncycastle.nl< /a>; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.</li>  
<li>Sebastian Oerding < a href="mailto:sebastian.oerding@robotron.de" >sebastian.oerding@robotron.de< /a>; Fixes to toString() in x509.CertificatePolicies.</li>  
<li>Kai Kramer < a href="mailto:kai.kramer@gmail.com" >kai.kramer@gmail.com< /a>; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.</li>  
<li>Benoit Charles < a href="mailto:benoit.charles@opentrust.com" >benoit.charles@opentrust.com< /a>; Fix for IES data length check on decryption.</li>  
<li>Niko < a href="mailto:nfink95@gmail.com" >nfink95@gmail.com< /a>; fix to cast issue in getOutputSize() for ECIES.</li>  
<li>akwizgran< a href="https://github.com/akwizgran" >https://github.com/akwizgran< /a>; Fixed clone of key in Blake2bDigest copy constructor,

blake2b reset issue for variant keys.</li>  
<li>Matthias Edelhoff &lt;matthias.edelhoff@cryptovision.com&gt; BasicConstraintsValidation pathlen fix in PKIX certpath classes.</li>  
<li>Lukasz Deputat &lt;lukasz.deputat@gmail.com&gt; Fixed bugs in TlsUtils read methods [#BJA-592].</li>  
<li>Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.</li>  
<li>Andr e Berenguel &lt;https://github.com/aberenguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi</li>  
<li>Slawomir Jaranowski&lt;https://github.com/slawekjaranowski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.</li>  
<li>Andrey Vasilyev&lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.</li>  
<li>William Glanton &lt;wglanton77@gmail.com&gt; Fixed bug in Poly1305 [#BJA-620].</li>  
<li>jdvorak001&lt;https://github.com/jdvorak001&gt; Speed improvements for ASN.1 ObjectIdentifier cache.</li>  
<li>Joseph Naegele &lt;jnaegele@grierforensics.com&gt; Patch for handling multiple certificates in a DANE SMIMEA entry.</li>  
<li>Andrew Bonventre&lt;https://github.com/andybons&gt; NullPointerException patch for WNAfUtil.</li>  
<li>The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.</li>  
<li>Gorka Irazoqui &lt;girazoki@wpi.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.</li>  
<li>Joerg Senekowitsch &lt;joerg.senekowitsch@veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSAPublicKey.</li>  
<li>Alexandr Krivoshta &lt;wipe@ya.ru&gt; N4 calculation fix to GOFB mode.</li>  
<li>Artem Storozhuk &lt;storojs72@gmail.com&gt; N4 calculation fix to GOFB mode.</li>  
<li>Na Yu &lt;na.yu@samsung.com&gt; Constructor patches to CMC PKIData.</li>  
<li>Evangelos Karatsiolis &lt;ekaratsiolis@mtg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.</li>  
<li>VivleSoren &lt;https://github.com/VivleSoren&gt; additional constructor for McElieceCCA2PrivateKeyParameters.</li>  
<li>mtausig &lt;https://github.com/mtausig&gt; JavaDoc fix for MCSEncryptedDataGenerator.</li>  
<li>Anders Schack-Mulligen &lt;https://github.com/aschackmull&gt; code cleanups for CMSSignedDataParser, BrokenKDF2BytesGenerator.</li>  
<li>Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland@stud.tu-darmstadt.de&gt; Initial XMSS/XMSS-MT implementation.</li>  
<li>didisoft &lt;https://github.com/didisoft&gt; test code for PGP signature removal involving user ids.</li>  
<li>Mike Safonov&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.</li>  
<li>Artem Storozhuk &lt;storojs72@gmail.com&gt; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.</li>  
<li>Andreas Glaser &lt;andreas.glaser@gi-de.com&gt; patch to recognise ANSSI curves for PKCS#10 requests.</li>  
<li>codeborne &lt;https://github.com/cbpx&gt; patch to correct OIDs used in public key digest parameters for

ECGOST-2012.</li>  
<li>FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.</li>  
<li>4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.</li>  
<li>ekszz &lt;https://github.com/ekszz&gt; corrections to SM2 signer to include default identity value.</li>  
<li>jminer &lt;https://github.com/jminer&gt; fix to Blake2b for hashes in range of 2\*\*64-127 to 2\*\*64.</li>  
<li>str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s</li>  
<li>Scott Woodward &lt;scott&#064bit3consulting.com&gt; performance fixes for CTRSP800DRBG.</li>  
<li>David Strawn &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYPT bounds checking.</li>  
<li>chris mccown &lt;0xchrismccown&#064gmail.com&gt; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).</li>  
<li>ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.</li>  
<li>Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion()</li>  
<li>Armin Lunkeit, Michael Tautenhahn &lt;&gt; identification of M-R test issue on higher certainty values in RSA key pair generation.</li>  
<li>Vincent Breitmoser &lt;https://github.com/Valodim&gt; fix to ignore unnecessary checksum calculator on PGP secret key encryption.</li>  
<li>Adam Vartanian &lt;https://github.com/flooeey&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().</li>  
<li>Bernd &lt;https://github.com/ecki&gt; Fix to make PGPUtil.pipeFileContents use buffer and not leak file handle.</li>  
<li>Shartung &lt;https://github.com/shartung&gt; Additional EC Key Agreement algorithms in support of German BSI TR-03111.</li>  
<li>Paul Schaub &lt;https://github.com/vanitasvitae&gt; bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.</li>  
<li>Nick of Nexxar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.</li>  
<li>catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).</li>  
<li>gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.</li>  
<li>fgrieu &lt;fgrieu&#064gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEP encoding and RSACoreEngine.</li>  
<li>MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.</li>  
<li>Andreas Gadermaier &lt;up.gadermaier&#064gmail.com&gt; initial version of Argon2 PBKDF algorithm.</li>  
<li>Tony Washer &lt;tony.washer@yahoo.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.</li>  
<li>Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.</li>  
<li>Tony Washer &lt;https://github.com/tonywasher&gt; ECIESKeyEncapsulation fix for use of OldCofactor mode. Submitted ChaCha20Poly1305 prototype.</li>  
<li>Aurimas Liutikas &lt;https://github.com/liutikas&gt; JavaDoc patches to ReasonsMask.</li>  
<li>Gabriel Sroka &lt;https://github.com/gabrielsroka&gt; corrected comments in RSA validation.</li>  
<li>sarah-mdv &lt;https://github.com/sarah-mdv&gt;



- improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.
- Jesse Feinman &lt;https://github.com/jessefeinman&gt; performance optimisation in RSAKeyParameters.
- Gilis95 &lt;https://github.com/Gilis95&gt; improved JSSE compatibility for setEnabledCipherSuites.
- Haemin Yoo &lt;https://github.com/yoohaemin&gt; Javadoc fixes.
- Antoine Toulme &lt;https://github.com/atoulme&gt; Initial implementation of EthereumIESEngine.
- Golden Looly &lt;https://github.com/looly&gt; Patch for addition of C1C3C2 mode to SM2Engine.
- Moses Palm&eacute;r, TrueSec &lt;Henrik.Palmer&#064truesec.se&gt; Additional improvements to constant time comparisons.
- Ren&eacute; Korthaus&lt;https://github.com/securitykernel&gt; Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.
- THausherr&lt;https://github.com/THausherr&gt; Addition generic support for CMS/TSP functions.
- Gaylor Bosson&lt;https://github.com/Gilthoniel&gt; Initial implementation of Blake2xs.
- gaellalire&lt;https://github.com/gaellalire&gt; Patch for unprotected PGP private keys as SExpr.
- im-scooter&lt;https://github.com/im-scooter&gt; Patch for case-insensitive behaviour of Param-Z.
- Nick hitchan&lt;https://github.com/hitchan&gt; Fix for typo in engineInitSign() in EdEc SignatureSpi.
- dbusche&lt;https://github.com/dbusche&gt; Argon2 optimisations.
- Daniel Heldt&lt;https://github.com/dheldt&gt; Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.
- Ugochukwu Mmaduekwe&lt;https://github.com/Xor-el&gt; Fix for initially bugged legacy Integers.numberOfLeadingZeros method.
- Gsealy &lt;https://github.com/Gsealy&gt; addition of PBKDF2withHmacSM3 to the provider.
- aphuang2013 &lt;https://github.com/aphuang2013&gt; update to path validation in EST service for ClearPath EST.
- Kevin Herron &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.
- vkreml &lt;https://github.com/svkreml&gt; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.
- Tobias Ospelt &gt;tobias&#064pentagrid.ch&lt; Identification of 1.63 regression in ASN.1 parsing.

</ul>  
</body>  
</html>

# 1.121 xmlsec-java 1.5.8

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## 1.126 insserv 1.18.0-2

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```

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<html>
```

```
<head>
```

```
<title>Berkeley DB: Berkeley DB Product License</title>
```

```
<meta name="description" content="Berkeley DB: An embedded database programmatic toolkit.">
```

```
<meta name="keywords"
```

```
content="embedded,database,programmatic,toolkit,btree,hash,hashing,transaction,transactions,locking,logging,access method,access methods,Java,C,C++">
```

```
</head>
```

```
<body bgcolor=white>
```

```
<p align=center><b>Berkeley DB Product License</b></p>
```

```
<p>The license that applies to this copy of the Berkeley DB software may be found in the "LICENSE" file included in each Berkeley DB distribution.</p>
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<a href="mailto:berkeleydb-info_us@oracle.com">berkeleydb-info_us@oracle.com</a>.</p>
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<p><font size=1>Copyright
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```

```
</body>
```

```
</html>
```

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## 1.131 attr 2.4.48 4

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## 1.133 diffutils 3.7 3

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## 1.134 pcre 8.39 12

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Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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## 1.135 ncurses 6.1+20181013 2+deb10u2



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## 1.137 coreutils 8.30 3

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## 1.139 tar 1.30+dfsg 6



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## 1.140 sysv-init 2.93 9

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## 1.144 libxcb 1.13.1 2

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```
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#+STARTUP: showall
```

\* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

-----  
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## 1.153 kingpin v2.2.6

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## 1.155 feign-form-spring 3.8.0

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# 1.156 cassandra-driver-core 3.7.2

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## 1.181 simpleclient 0.8.1

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## 1.182 properties 1.8.1

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goproperties - properties file decoder for Go

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## 1.183 jwt-go 3.2.0+incompatible

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## 1.184 sarama v1.26.1

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## 1.187 sqlx 1.2.0

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```
/** Java 1.5 Recognizer
 *
 * Run 'java Main [-showtree] directory-full-of-java-files'
 *
 * [The -showtree option pops up a Swing frame that shows
 * the AST constructed from the parser.]
 *
 * Run 'java Main <directory full of java files>'
 *
 * Contributing authors:
 *   Jeremy Rayner   groovy@ross-rayner.com
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 *   Peter Williams  pete.williams@sun.com
```

- \* Allan Jacobs Allan.Jacobs@eng.sun.com
- \* Steve Messick messick@redhills.com
- \* John Pybus john@pybus.org
- \*
- \* Version 1.00 December 9, 1997 -- initial release
- \* Version 1.01 December 10, 1997
- \* fixed bug in octal def (0..7 not 0..8)
- \* Version 1.10 August 1998 (parrrt)
- \* added tree construction
- \* fixed definition of WS,comments for mac,pc,unix newlines
- \* added unary plus
- \* Version 1.11 (Nov 20, 1998)
- \* Added "shutup" option to turn off last ambig warning.
- \* Fixed inner class def to allow named class defs as statements
- \* synchronized requires compound not simple statement
- \* add [] after builtInType DOT class in primaryExpression
- \* "const" is reserved but not valid..removed from modifiers
- \* Version 1.12 (Feb 2, 1999)
- \* Changed LITERAL\_XXX to xxx in tree grammar.
- \* Updated java.g to use tokens {...} now for 2.6.0 (new feature).
- \*
- \* Version 1.13 (Apr 23, 1999)
- \* Didn't have (stat)? for else clause in tree parser.
- \* Didn't gen ASTs for interface extends. Updated tree parser too.
- \* Updated to 2.6.0.
- \* Version 1.14 (Jun 20, 1999)
- \* Allowed final/abstract on local classes.
- \* Removed local interfaces from methods
- \* Put instanceof precedence where it belongs...in relationalExpr
- \* It also had expr not type as arg; fixed it.
- \* Missing ! on SEMI in classBlock
- \* fixed: (expr) + "string" was parsed incorrectly  
(+ as unary plus).
- \* fixed: didn't like Object[].class in parser or tree parser
- \* Version 1.15 (Jun 26, 1999)
- \* Screwed up rule with instanceof in it. :( Fixed.
- \* Tree parser didn't like (expr).something; fixed.
- \* Allowed multiple inheritance in tree grammar. oops.
- \* Version 1.16 (August 22, 1999)
- \* Extending an interface built a wacky tree: had extra EXTENDS.
- \* Tree grammar didn't allow multiple superinterfaces.
- \* Tree grammar didn't allow empty var initializer: { }
- \* Version 1.17 (October 12, 1999)
- \* ESC lexer rule allowed 399 max not 377 max.
- \* java.tree.g didn't handle the expression of synchronized  
statements.
- \* Version 1.18 (August 12, 2001)
- \* Terence updated to Java 2 Version 1.3 by

- \* observing/combining work of Allan Jacobs and Steve
- \* Messick. Handles 1.3 src. Summary:
- \* o primary didn't include boolean.class kind of thing
- \* o constructor calls parsed explicitly now:
- \* see explicitConstructorInvocation
- \* o add strictfp
- modifier
- \* o missing objBlock after new expression in tree grammar
- \* o merged local class definition alternatives, moved after declaration
- \* o fixed problem with ClassName.super.field
- \* o reordered some alternatives to make things more efficient
- \* o long and double constants were not differentiated from int/float
- \* o whitespace rule was inefficient: matched only one char
- \* o add an examples directory with some nasty 1.3 cases
- \* o made Main.java use buffered IO and a Reader for Unicode support
- \* o supports UNICODE?
- \* Using Unicode charVocabulay makes code file big, but only
- \* in the bitsets at the end. I need to make ANTLR generate
- \* unicode bitsets more efficiently.
- \* Version 1.19 (April 25, 2002)
- \* Terence added in nice fixes by John Pybus concerning floating
- \* constants and problems with super() calls. John did a nice
- \* reorg of the primary/postfix expression stuff to read better
- \* and makes f.g.super() parse properly (it was
- METHOD\_CALL not
- \* a SUPER\_CTOR\_CALL). Also:
- \*
- \* o "finally" clause was a root...made it a child of "try"
- \* o Added stuff for asserts too for Java 1.4, but \*commented out\*
- \* as it is not backward compatible.
- \*
- \* Version 1.20 (October 27, 2002)
- \*
- \* Terence ended up reorging John Pybus' stuff to
- \* remove some nondeterminisms and some syntactic predicates.
- \* Note that the grammar is stricter now; e.g., this(...) must
- \* be the first statement.
- \*
- \* Ternary ?: operator wasn't working as array name:
- \* (isBig ? bigDigits : digits)[i];
- \*
- \* Checked parser/tree parser on source for
- \* Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4,
- \* and the 110k-line jGuru server source.
- \*
- \* Version 1.21 (October 17, 2003)
- \* Fixed lots of problems including:
- \* Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g

- \* He found a problem/fix with floating point that start with 0
- \* Ray also fixed problem that (int.class) was not recognized.
- \* Thorsten van Ellen noticed that \n are allowed incorrectly in strings.
- \* TJP fixed CHAR\_LITERAL analogously.
- \*
- \* Version 1.21.2 (March, 2003)
- \* Changes by Matt Quail to support generics (as per JDK1.5/JSR14)
- \* Notes:
  - \* o We only allow the "extends" keyword and not the "implements"
  - \* keyword, since that's what JSR14 seems to imply.
  - \* o Thanks to Monty Zukowski for his help on the antlr-interest
  - \* mail list.
  - \* o Thanks to Alan Eliassen for testing the grammar over his
  - \* Fink source base
- \*
- \* Version 1.22 (July, 2004)
- \* Changes by Michael Studman to support Java 1.5 language extensions
- \* Notes:
  - \* o Added support for annotations types
  - \* o Finished off Matt Quail's generics enhancements to support bound type arguments
  - \* o Added support for new for statement syntax
  - \* o Added support for static import syntax
  - \* o Added support for enum types
  - \* o Tested against JDK 1.5 source base and source base of jdigraph project
  - \* o Thanks to Matt Quail
 for doing the hard part by doing most of the generics work
- \*
- \* Version 1.22.1 (July 28, 2004)
- \* Bug/omission fixes for Java 1.5 language support
  - \* o Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for
  - \* spotting this
  - \* o Fixed bug where incorrect handling of SR and BSR tokens would cause type
  - \* parameters to be recognised as type arguments.
  - \* o Enabled type parameters on constructors, annotations on enum constants
  - \* and package definitions
  - \* o Fixed problems when parsing if ((char.class.equals(c)) {} - solution by Matt Quail at Cenqua
- \*
- \* Version 1.22.2 (July 28, 2004)
- \* Slight refactoring of Java 1.5 language support
  - \* o Refactored for/"foreach" productions so that original literal "for" literal
  - \* is still used but the for sub-clauses vary by token type
  - \* o Fixed bug where type parameter was not included in generic constructor's branch of AST
- \*
- \* Version 1.22.3 (August 26, 2004)
- \* Bug fixes as identified by Michael
  - \* Stahl; clean up of tabs/spaces
  - \* and other refactorings
  - \* o Fixed typeParameters omission in identPrimary and newStatement

- \* o Replaced GT reconciliation code with simple semantic predicate
- \* o Adapted enum/assert keyword checking support from Michael Stahl's java15 grammar
- \* o Refactored typeDefinition production and field productions to reduce duplication
- \*
- \* Version 1.22.4 (October 21, 2004)
- \* Small bux fixes
- \* o Added typeArguments to explicitConstructorInvocation, e.g. new <String>MyParameterised()
- \* o Added typeArguments to postfixExpression productions for anonymous inner class super constructor invocation, e.g. new Outer().<String>super()
- \* o Fixed bug in array declarations identified by Geoff Roy
- \*
- \* Version 1.22.4.j.1
- \* Changes by Jeremy Rayner to support java2groovy tool
- \* o I have taken java.g for Java1.5 from Michael Studman (1.22.4)
- \* and have made some changes to enable use by java2groovy tool (Jan 2007)
- \*
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\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/antlr/java/java.g

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\*  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/AutoImplementASTTransformation.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/AutoImplement.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/util/CharSequenceReader.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/ErrorCollecting.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/NumberRange.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/AnnotationCollectorMode.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/tools/ClassNodeUtils.java

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jar/org/apache/groovy/util/concurrentlinkedhashmap/Weigher.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/apache/groovy/util/concurrentlinkedhashmap/Weighers.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/apache/groovy/util/concurrentlinkedhashmap/ConcurrentLinkedHashMap.java  
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\*  
/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/package.html  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/messages/package.html  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/io/package.html  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/time/package.html  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/security/package.html  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/typehandling/package.html  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/package.html  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/io/package.html



\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/expr/package.html  
\*  
/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/vmplugin/v5/package.html  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/package.html  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/overview.html  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/package.html  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/wrappers/package.html  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/stmt/package.html  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/inspect/package.html  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/antlr/package.html  
\*  
/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/reflection/package.html  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/package.html  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/tools/javac/package.html  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/grape/defaultGrapeConfig.xml  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/tools/xml/package.html  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/syntax/package.html  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/tools/package.html  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/metaclass/package.html  
\*  
/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/util/package.html  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/package.html  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/antlr/treewalker/package.html  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/asm/package.html  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/overviewj.html  
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*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/GStringImpl.java
```

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```

```
# Format: one extension on each line without the leading "*."
```

```
# Listed below are default groovy source file extensions.
```

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

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/META-INF/groovy/org.codehaus.groovy.source.Extensions

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/\*\* JSR-241 Groovy Recognizer.

\*

\* Run 'java Main [-showtree] directory-full-of-groovy-files'

\*

\* [The -showtree option pops up a Swing frame that shows

\* the AST constructed from the parser.]

\*

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\*

\* Version 1.00 December 9, 1997 -- initial release

\* Version 1.01 December 10, 1997

\* fixed bug in octal def (0..7 not 0..8)

\* Version 1.10 August 1998 (parrt)

\* added tree construction

\* fixed definition of WS,comments for mac,pc,unix newlines

\* added unary plus

\* Version 1.11 (Nov 20, 1998)

\* Added "shutup" option to turn off last ambig warning.

\* Fixed inner class def to allow named class defs as statements

\* synchronized requires compound not simple statement

\* add [] after builtInType DOT class in primaryExpression

\* "const" is reserved but not valid..removed from modifiers

\* Version 1.12 (Feb 2, 1999)

\* Changed LITERAL\_XXX to xxx in tree

grammar.

\* Updated java.g to use tokens {...} now for 2.6.0 (new feature).

\*

\* Version 1.13 (Apr 23, 1999)

- \* Didn't have (stat)? for else clause in tree parser.
- \* Didn't gen ASTs for interface extends. Updated tree parser too.
- \* Updated to 2.6.0.
- \* Version 1.14 (Jun 20, 1999)
  - \* Allowed final/abstract on local classes.
  - \* Removed local interfaces from methods
  - \* Put instanceof precedence where it belongs...in relationalExpr
    - \* It also had expr not type as arg; fixed it.
  - \* Missing ! on SEMI in classBlock
  - \* fixed: (expr) + "string" was parsed incorrectly (+ as unary plus).
  - \* fixed: didn't like Object[].class in parser or tree parser
- \* Version 1.15 (Jun 26, 1999)
  - \* Screwed up rule with instanceof in it. :( Fixed.
  - \* Tree parser didn't like (expr).something; fixed.
  - \* Allowed multiple inheritance
    - in tree grammar. oops.
- \* Version 1.16 (August 22, 1999)
  - \* Extending an interface built a wacky tree: had extra EXTENDS.
  - \* Tree grammar didn't allow multiple superinterfaces.
  - \* Tree grammar didn't allow empty var initializer: { }
- \* Version 1.17 (October 12, 1999)
  - \* ESC lexer rule allowed 399 max not 377 max.
  - \* java.tree.g didn't handle the expression of synchronized statements.
- \* Version 1.18 (August 12, 2001)
  - \* Terence updated to Java 2 Version 1.3 by
    - observing/combining work of Allan Jacobs and Steve Messick. Handles 1.3 src. Summary:
    - o primary didn't include boolean.class kind of thing
    - o constructor calls parsed explicitly now:
      - see explicitConstructorInvocation
    - o add strictfp modifier
    - o missing objBlock after new expression in tree grammar
    - o
      - merged local class definition alternatives, moved after declaration
        - o fixed problem with ClassName.super.field
        - o reordered some alternatives to make things more efficient
        - o long and double constants were not differentiated from int/float
        - o whitespace rule was inefficient: matched only one char
        - o add an examples directory with some nasty 1.3 cases
        - o made Main.java use buffered IO and a Reader for Unicode support
        - o supports UNICODE?
      - Using Unicode charVocabulary makes code file big, but only in the bitsets at the end. I need to make ANTLR generate unicode bitsets more efficiently.
- \* Version 1.19 (April 25, 2002)
  - \* Terence added in nice fixes by John Pybus concerning floating constants and problems with super() calls. John did a nice

- \* reorg of the primary/postfix expression  
stuff to read better
- \* and makes f.g.super() parse properly (it was METHOD\_CALL not  
a SUPER\_CTOR\_CALL). Also:
- \*
  - o "finally" clause was a root...made it a child of "try"
  - o Added stuff for asserts too for Java 1.4, but \*commented out\*  
as it is not backward compatible.
- \*
  - o Version 1.20 (October 27, 2002)
- \*
  - o Terence ended up reorging John Pybus' stuff to  
remove some nondeterminisms and some syntactic predicates.
  - o Note that the grammar is stricter now; e.g., this(...) must  
be the first statement.
  - o Trinary ?: operator wasn't working as array name:  
(isBig ? bigDigits : digits)[i];
  - o Checked parser/tree parser on source for  
Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4,  
and the 110k-line jGuru server source.
- \*
  - o Version 1.21 (October 17, 2003)
- \* Fixed lots of problems including:
  - \* Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g
  - \* He found a problem/fix with floating point that start with 0
  - \* Ray also fixed problem that (int.class) was not recognized.
  - \* Thorsten van Ellen noticed that \n are allowed incorrectly in strings.
  - \* TJP fixed CHAR\_LITERAL analogously.
- \*
  - o Version 1.21.2 (March, 2003)
- \* Changes by Matt Quail to support generics (as per JDK1.5/JSR14)
  - \* Notes:
    - o We only allow the "extends" keyword and not the "implements"  
keyword, since that's what JSR14 seems to imply.
    - o Thanks to Monty Zukowski for his help on the antlr-interest  
mail list.
    - o Thanks to Alan Eliassen for testing the grammar over his  
Fink source base
- \*
  - o Version 1.22 (July, 2004)
- \* Changes by Michael Studman to support Java 1.5 language extensions
  - \* Notes:
    - o Added support for annotations types
    - o Finished off Matt Quail's generics  
enhancements to support bound type arguments
    - o Added support for new for statement syntax

- \* o Added support for static import syntax
- \* o Added support for enum types
- \* o Tested against JDK 1.5 source base and source base of jdigraph project
- \* o Thanks to Matt Quail for doing the hard part by doing most of the generics work
- \*
- \* Version 1.22.1 (July 28, 2004)
- \* Bug/omission fixes for Java 1.5 language support
- \* o Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for spotting this
- \* o Fixed bug where incorrect handling of SR and BSR tokens would cause type parameters to be recognised as type arguments.
- \* o Enabled type parameters on constructors, annotations on enum constants and package definitions
- \* o Fixed problems when parsing `if ((char.class.equals(c))) {}` - solution by Matt Quail at Cenqua
- \*
- \* Version 1.22.2 (July 28, 2004)
- \* Slight refactoring of Java 1.5 language support
- \* o Refactored for/"foreach" productions so that original literal "for" literal is still used but the for sub-clauses vary by token type
- \* o Fixed bug where type parameter was not included in generic constructor's branch of AST
- \*
- \* Version 1.22.3 (August 26, 2004)
- \* Bug fixes as identified by Michael Stahl; clean up of tabs/spaces and other refactorings
- \* o Fixed typeParameters omission in identPrimary and newStatement
- \* o Replaced GT reconciliation code with simple semantic predicate
- \* o Adapted enum/assert keyword checking support from Michael Stahl's java15 grammar
- \* o Refactored typeDefinition production and field productions to reduce duplication
- \*
- \* Version 1.22.4 (October 21, 2004)
- \* Small bux fixes
- \* o Added typeArguments to explicitConstructorInvocation, e.g. `new <String>MyParameterised()`
- \* o Added typeArguments to postfixExpression productions for anonymous inner class super constructor invocation, e.g. `new Outer().<String>super()`
- \* o Fixed bug in array declarations identified by Geoff Roy
- \*
- \* Version 1.22.4.g.1
- \* o I have taken java.g for Java 1.5 from Michael Studman (1.22.4) and have applied the groovy.diff from java.g (1.22) by John Rose back onto the new root (1.22.4) - Jeremy Rayner (Jan 2005)
- \*
- \* Version 1.22.4.g.2
- \* o mkempf, rkleeb, Dec 2007
- \* o fixed various rules so that they call the correct Create Method to make sure that the line information are correct
- \*
- \* Based on an original grammar released in the PUBLIC DOMAIN

\*/

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\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/antlr/parser/GroovyRecognizer.java

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\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-

jar/org/apache/groovy/util/concurrentlinkedhashmap/LinkedDeque.java

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```

```
# global transformation to handle @Grab annotation
groovy.grape.GrabAnnotationTransformation
```

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

Found

in path(s):

```
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/META-
INF/services/org.codehaus.groovy.transform.ASTTransformation
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*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/syntax/ParserException.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesBinaryExpressionMultiTypeDispatcher.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/callsite/GroovySunClassLoader.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/asm/BinaryExpressionHelper.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/metaclass/MetaClassRegistryImpl.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/GroovyShell.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/dgmimpl/arrays/IntegerArrayPutAtMetaMethod.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/tailrec/AstHelper.groovy
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/callsite/ConstructorMetaClassSite.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/asm/BinaryExpressionWriter.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/builder/AstSpecificationCompiler.groovy
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/apache/groovy/ast/tools/VisibilityUtils.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/control/messages/Message.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/beans/Vetoable.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/sc/transformers/VariableExpressionTransformer.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ArrayPutAtMetaMethod.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/beans/DefaultPropertyWriter.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/typehandling/ShortTypeHandling.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/vmplugin/v6/Java6.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/GeneratedClosure.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
```

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jar/org/codehaus/groovy/transform/sc/ListOfExpressionsExpression.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/AsmClassGenerator.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/NewifyASTTransformation.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/syntax/TokenMismatchException.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/powerassert/ValueRecorder.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/util/logging/Commons.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/DefaultGroovyMethods.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/reflection/ReflectionCache.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/MetaClass.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/StringBufferWriter.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/PackageScopeASTTransformation.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/ClassGeneratorException.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/memoize/Memoize.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/expr/PostfixExpression.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/expr/MapEntryExpression.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/callsite/PogoInterceptableSite.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/antlr/java/Groovifier.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/control/customizers/builder/CustomizersFactory.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/io/EncodingAwareBufferedWriter.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/time/TimeDatumDependentDuration.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/wrappers/Wrapper.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/apache/groovy/internal/util/ReevaluatingReference.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/options/Visibility.java

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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/reflection/stdclasses/IntegerCachedClass.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/genDgmMath.groovy
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesClosureWriter.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/util/ListHashMap.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/IntRange.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/PropertyOptions.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/NamedVariantASTTransformation.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/beans/ListenerListASTTransformation.groovy
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/VerifierCodeVisitor.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/powerassert/SourceText.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/AnnotatedNode.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/EnumConstantClassNode.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/util/BufferedIterator.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/ScriptReference.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/sc/transformers/RangeExpressionTransformer.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/antlr/ASTParserException.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/expr/UnaryMinusExpression.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/cli/TypedOption.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/asm/BinaryObjectExpressionHelper.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/util/FileNameByRegexFinder.groovy
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/util/TripleKeyHashMap.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/asm/MopWriter.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-

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jar/org/codehaus/groovy/ast/expr/ClassExpression.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/MetaArrayLengthProperty.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/memoize/ConcurrentSoftCache.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/MethodCallTransformation.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/builder/ExternalStrategy.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/ComposedClosure.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/expr/NotExpression.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/metaclass/ClosureMetaMethod.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/util/Factory.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/util/IndentPrinter.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/trait/Traits.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/AutoFinal.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/stc/UnionTypeClassNode.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/antlr/java/Java2GroovyProcessor.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/tailrec/StatementReplacer.groovy
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/plugin/GroovyRunner.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/decompiled/AsmReferenceResolver.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/callsite/GetEffectivePojoPropertySite.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/dgmimpl/NumberNumberMinus.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/MetaExpandProperty.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/InnerClassCompletionVisitor.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/trait/SuperCallTraitTransformer.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/tools/shell/IO.java

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\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/transform/sc/transformers/BooleanExpressionTransformer.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/control/customizers/builder/SourceAwareCustomizerFactory.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/groovy/lang/StringWriterIOException.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/runtime/metaclass/NewStaticMetaMethod.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/reflection/CacheAccessControlException.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/classgen/genMathModification.groovy  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/runtime/ReverseListIterator.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/groovy/transform/stc/MapEntryOrKeyValue.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/classgen/asm/CallSiteWriter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/runtime/ClassExtender.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ArrayMetaMethod.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/reflection/stdclasses/BigIntegerCachedClass.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/groovy/inspect/Inspector.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/groovy/grape/GrabAnnotationTransformation.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/runtime/m12n/ExtensionModuleScanner.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/antlr/UnicodeLexerSharedInputState.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/runtime/metaclass/MixedInMetaClass.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/syntax/ReadException.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/control/messages/WarningMessage.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/ast/FieldNode.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/groovy/lang/Newify.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/tools/Utilities.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-

jar/groovy/transform/builder/Builder.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/runtime/metaclass/ClosureStaticMetaMethod.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/runtime/memoize/ConcurrentCommonCache.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/groovy/util/logging/Log.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/groovy/transform/ThreadInterrupt.groovy  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/classgen/asm/StatementWriter.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/vmplugin/v7/IndyGuardsFiltersAndSignatures.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/groovy/util/FileTreeBuilder.groovy  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/runtime/MethodRankHelper.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/runtime/callsite/AbstractCallSite.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/transform/CompileDynamicProcessor.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/runtime/InvokerInvocationException.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/groovy/lang/Tuple6.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/ast/expr/UnaryPlusExpression.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/groovy/beans/PropertyAccessor.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/transform/sc/transformers/BinaryExpressionTransformer.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/groovy/util/BuilderSupport.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/runtime/DateGroovyMethods.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/transform/MapConstructorASTTransformation.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/groovy/transform/Undefined.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/antlr/treewalker/SourcePrinter.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/ast/stmt/ExpressionStatement.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/groovy/transform/stc/IncorrectTypeHintException.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/antlr/treewalker/NodePrinter.java

\*

/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/sc/transformers/MethodCallExpressionTransformer.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/stc/GroovyTypeCheckingExtensionSupport.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/MissingClassException.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/apache/groovy/io/StringBuilderWriter.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/tools/StringHelper.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/ClosureInvokingMethod.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/antlr/AntlrParserPluginFactory.java

\*

/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/util/NodeList.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/RangeInfo.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/CompileStatic.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/vmplugin/v7/IndyArrayAccess.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/DelegateASTTransformation.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/tools/shell/util/Logger.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/tools/ErrorReporter.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/BytecodeInterface8.java

\*

/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/StaticImportVisitor.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/syntax/Token.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/ClassCodeExpressionTransformer.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/customizers/SecureASTCustomizer.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/Closure.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/util/ScriptException.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-

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jar/org/codehaus/groovy/ast/MixinNode.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/DefaultGroovyStaticMethods.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/AutoClone.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/control/BytecodeProcessor.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/antlr/Main.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/reflection/stdclasses/StringCachedClass.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/reflection/ParameterTypes.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/cli/OptionField.groovy
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/control/CompilationUnit.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/util/StringUtil.groovy
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/util/ManagedConcurrentValueMap.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/decompiled/AsmDecompiler.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/AbstractASTTransformUtil.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/ASTTestTransformation.groovy
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/control/io/ReaderSource.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/CodeVisitorSupport.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/NonEmptySequence.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/io/PlatformLineWriter.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/Tuple8.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/asm/BinaryFloatExpressionHelper.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/control/CompilePhase.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/ResourceGroovyMethods.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/util/ManagedConcurrentLinkedQueue.java

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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/expr/ClosureListExpression.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/builder/SimpleStrategy.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/sc/transformers/CompareIdentityExpression.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/vmplugin/v9/Java9.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/tools/GrapeMain.groovy
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/options/ImmutablePropertyHandler.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/metaclass/ThreadManagedMetaBeanProperty.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/asm/BinaryExpressionMultiTypeDispatcher.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/syntax/RuntimeParserException.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/ExtendedVerifier.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/util/ReferenceType.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/dgmimpl/arrays/BooleanArrayPutAtMetaMethod.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/NamedVariant.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/ObjectRange.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/grape/GrapeEngine.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/Internal.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/m12n/StandardPropertiesModuleFactory.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/KnownImmutable.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/reflection/stdclasses/LongCachedClass.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/BaseScript.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/antlr/UnicodeEscapingReader.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/control/SourceUnit.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-

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jar/org/codehaus/groovy/runtime/metaclass/ConcurrentReaderHashMap.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/SpreadMap.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/util/DelegatingScript.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/apache/groovy/metaclass/MetaClass.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/callsite/CallSite.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/util/URLStreams.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/tools/javac/JavaCompiler.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/TupleConstructorASTTransformation.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/typehandling/BigDecimalMath.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/callsite/PojoMetaClassSite.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/ClassCompletionVerifier.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/antlr/SourceInfo.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/metaclass/MixinInstanceMetaProperty.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/time/Duration.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/util/ObjectGraphBuilder.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/Range.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/metaclass/MetaMethodIndex.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/trait/TraitASTTransformation.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/tailrec/CollectRecursiveCalls.groovy
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/util/ReferenceManager.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/TimedInterrupt.groovy
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/tools/gse/DependencyTracker.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/callsite/NullCallSite.java

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\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/antlr/java/PreJava2GroovyConverter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/tailrec/ReturnAdderForClosures.groovy  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/GroovyBugError.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/BenchmarkInterceptor.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/tools/WideningCategories.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/callsite/MetaClassSite.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/reflection/CachedMethod.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/metaclass/ReflectorLoader.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/apache/groovy/ast/tools/ImmutablePropertyUtils.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ShortArrayGetAtMetaMethod.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/decompiled/ClassStub.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/antlr/GroovySourceToken.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/CompilationUnitAware.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/StaticVerifier.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/callsite/StaticMetaMethodSite.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/PropertyNode.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/LabelVerifier.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/asm/BytecodeHelper.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/stmt/LoopingStatement.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/GenericsVisitor.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/EncodingGroovyMethodsSupport.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/AbstractASTTransformation.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-

jar/org/codehaus/groovy/control/customizers/builder/SecureASTCustomizerFactory.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/apache/groovy/ast/tools/ExpressionUtils.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/runtime/memoize/UnlimitedConcurrentCache.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/tools/DgmConverter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/classgen/asm/InvocationWriter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/runtime/DefaultCachedMethodKey.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/groovy/lang/GroovyResourceLoader.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/runtime/metaclass/ClosureMetaClass.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/groovy/cli/CliBuilderException.groovy  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/util/Proxy.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/transform/BuilderASTTransformation.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ObjectArrayPutAtMetaMethod.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/reflection/GroovyClassValuePreJava7.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/groovy/util/IFilenameFinder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/apache/groovy/ast/tools/AnnotatedNodeUtils.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/control/ProcessingUnit.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/apache/groovy/internal/util/Function.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/groovy/util/ObservableSet.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/reflection/ReflectionUtils.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/control/OptimizerVisitor.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/ast/expr/StaticMethodCallExpression.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/control/messages/ExceptionMessage.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/groovy/transform/builder/InitializerStrategy.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-

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jar/org/codehaus/groovy/ast/expr/AttributeExpression.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/asm/indy/IndyCallSiteWriter.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/AdaptingMetaClass.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/TailRecursive.groovy
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/powerassert/AssertionRenderer.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/asm/indy/InvokeDynamicWriter.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/stmt/AssertStatement.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/IncorrectClosureArgumentsException.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/MixinASTTransformation.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/util/Reference.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/MetaBeanProperty.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/decompiled/TypeSignatureParser.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/apache/groovy/plugin/GroovyRunner.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/syntax/TokenException.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/stmt/Statement.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/IllegalPropertyAccessException.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/apache/groovy/metaclass/Realm.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/antlr/GroovySourceAST.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/powerassert/SourceTextNotAvailableException.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/callsite/GetEffectivePogoPropertySite.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/InvokerHelper.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/control/AnnotationConstantsVisitor.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/antlr/treewalker/TraversalHelper.java

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\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/syntax/Types.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/GeneratedGroovyProxy.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/Writable.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/asm/sc/StaticCompilationMopWriter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/MethodClosure.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/DynamicVariable.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/reflection/stdclasses/FloatCachedClass.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/antlr/treewalker/MindMapPrinter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/cli/Option.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/tailrec/VariableExpressionTransformer.groovy  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/expr/TupleExpression.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/util/ManagedReference.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/wrappers/FloatWrapper.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/stc/SingleSignatureClosureHint.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/wrappers/ByteWrapper.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/stc/Receiver.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/expr/ConstructorCallExpression.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/asm/UnaryExpressionHelper.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/LongArrayGetAtMetaMethod.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/expr/CastExpression.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/syntax/TokenUtil.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/MetaProperty.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/DelegatesTo.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/stc/ClosureParams.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/reflection/CachedField.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/metaclass/TemporaryMethodKey.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/beans/PropertyWriter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/builder/AstStringCompiler.groovy  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/vmplugin/v7/IndyMath.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/util/ObservableMap.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/Tuple1.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/Field.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/TransformingCodeVisitor.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/PackageNode.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/Trait.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/callsite/MetaMethodSite.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/customizers/builder/ImportCustomizerFactory.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/antlr/LexerFrame.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/SocketGroovyMethods.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/tailrec/HasRecursiveCalls.groovy  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/ThreadInterruptibleASTTransformation.groovy  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/MissingMethodException.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/asm/indy/IndyBinHelper.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/NamedParam.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/stc/AbstractTypeCheckingExtension.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-

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jar/org/codehaus/groovy/runtime/typehandling/NumberMath.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/CompileDynamic.groovy
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/apache/groovy/internal/util/UnicodeConst.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/MissingFieldException.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/stc/FromAbstractTypeMethods.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/asm/WriterController.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/MapWithDefault.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/InnerClassNode.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/ExpandoMetaClassCreationHandle.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/metaclass/MethodSelectionException.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/asm/StatementMetaTypeChooser.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/VariableScope.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/asm/BytecodeVariable.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/util/ObservableList.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/TrampolineClosure.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/Delegate.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/control/HasCleanup.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/reflection/stdclasses/CachedSAMClass.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/antlr/AntlrParserPlugin.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/io/FileType.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/memoize/EvictableCache.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/stmt/EmptyStatement.java

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\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/groovy/util/FactoryBuilderSupport.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/transform/stc/PropertyLookupVisitor.java  
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 /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
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 jar/groovy/transform/MapConstructor.java  
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 jar/groovy/lang/PropertyValue.java  
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 jar/groovy/lang/GroovyCallable.java  
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 jar/org/codehaus/groovy/runtime/dgmimpl/arrays/DoubleArrayGetAtMetaMethod.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/ast/tools/ClosureUtils.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/reflection/GroovyClassValueFactory.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/ast/stmt/ContinueStatement.java  
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 jar/groovy/transform/EqualsAndHashCode.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/groovy/transform/stc/PickFirstResolver.java  
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 /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/ast/Variable.java  
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 jar/groovy/lang/ProxyMetaClass.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/GroovyException.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
 jar/org/codehaus/groovy/transform/tailrec/TailRecursiveASTTransformation.groovy  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-

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jar/org/codehaus/groovy/runtime/m12n/MetaInfExtensionModule.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/stmt/ForStatement.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/callsite/PerInstancePojoMetaClassSite.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/util/Node.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/tailrec/VariableAccessReplacer.groovy
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/util/ConfigObject.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/PropertyAccessInterceptor.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/MetaClassRegistryChangeEvent.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ShortArrayPutAtMetaMethod.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/vmplugin/v5/JUnit4Utils.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/ClassCodeVisitorSupport.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/ImmutableOptions.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/ReadOnlyPropertyException.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/antlr/AntlrASTProcessor.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesWriterControllerFactoryImpl.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/io/GroovyPrintStream.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/control/ErrorCollector.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/dgmimpl/arrays/DoubleArrayPutAtMetaMethod.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/AbstractComparator.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/reflection/stdclasses/ShortCachedClass.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/GrabExclude.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-

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jar/org/codehaus/groovy/classgen/InnerClassVisitor.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/wrappers/IntWrapper.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/stmt/ThrowStatement.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/tailrec/InWhileLoopWrapper.groovy
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/stmt/DoWhileStatement.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/tools/javac/JavaStubCompilationUnit.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/reflection/GroovyClassValue.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/metaclass/MissingMethodExecutionFailed.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/tools/javac/JavacJavaCompiler.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/stc/StaticTypeCheckingSupport.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/genArrayAccess.groovy
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/Binding.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/tools/gse/StringSetMap.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/TimedInterruptibleASTTransformation.groovy
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/decompiled/MemberSignatureParser.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/ConversionHandler.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/stmt/CaseStatement.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/antlr/treewalker/NodeCollector.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/callsite/StaticMetaClassSite.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/expr/SpreadMapExpression.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ArrayGetAtMetaMethod.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/tailrec/RecursivenessTester.groovy
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/AutoExternalize.groovy

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\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/memoize/LRUProtectionStorage.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/VariableScopeVisitor.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/Janitor.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/ParameterArray.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/Interceptor.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/expr/ElvisOperatorExpression.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/AnnotationVisitor.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/ParserPluginFactory.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/util/ManagedConcurrentMap.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/Tuple2.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/util/ReleaseInfo.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/antlr/antlrASTProcessSnippets.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/expr/EmptyExpression.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/TypeCheckingMode.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/sc/TemporaryVariableExpression.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/tools/javac/JavaAwareCompilationUnit.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/stc/DefaultTypeCheckingExtension.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/expr/RangeExpression.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/Memoized.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/MultipleCompilationErrorsException.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/asm/WriterControllerFactory.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/reflection/stdclasses/CachedClosureClass.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-

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jar/org/codehaus/groovy/control/CompilationFailedException.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/AnnotationCollector.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/BytecodeInstruction.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/sc/transformers/StaticCompilationTransformer.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/control/io/InputStreamReaderSource.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/genArrayUtil.groovy
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/metaclass/NewMetaMethod.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/ConstructorNode.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/dgmimpl/NumberNumberMetaMethod.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/options/LegacyHashMapPropertyHandler.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/reflection/stdclasses/BigDecimalCachedClass.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/util/GroovyScriptEngine.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/util/AbstractConcurrentMap.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/reflection/stdclasses/ObjectCachedClass.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/sc/StaticCompilationMetadataKeys.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/decompiled/Annotations.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/memoize/ValueConvertible.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/util/Expando.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/callsite/CallSiteAwareMetaMethod.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/PackageScopeTarget.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/tailrec/ReturnStatementToIterationConverter.groovy
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/xml/QName.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/metaclass/MultipleSetterProperty.java

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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/NumberAwareComparator.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/DefaultGroovyMethodsSupport.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/ImportNode.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/control/SourceExtensionHandler.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/expr/GStringExpression.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/wrappers/LongWrapper.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/stc/SharedVariableCollector.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/time/TimeDuration.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/AbstractInterruptibleASTTransformation.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/control/Phases.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/apache/groovy/util/SystemUtil.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/callsite/ConstructorSite.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/metaclass/MethodMetaProperty.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/IOGroovyMethods.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/FlushingStreamWriter.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/stmt/BlockStatement.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/expr/BooleanExpression.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/util/CharsetToolkit.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/util/IteratorBufferedIterator.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/syntax/CSTNode.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/asm/BinaryLongExpressionHelper.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/sc/transformers/CastExpressionOptimizer.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-

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jar/org/codehaus/groovy/classgen/asm/BinaryDoubleExpressionHelper.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/control/ResolveVisitor.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ByteArrayGetAtMetaMethod.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/GroovyCodeVisitor.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/sc/transformers/ConstructorCallTransformer.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/ArrayUtil.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/apache/groovy/plugin/GroovyRunnerRegistry.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/time/TimeCategory.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/StaticTypesTransformation.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/MethodKey.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/dgmimpl/arrays/IntegerArrayGetAtMetaMethod.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/dgmimpl/NumberNumberDiv.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/memoize/LRUCache.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/tools/PropertyNodeUtils.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/asm/MethodCaller.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/vmplugin/VMPluginFactory.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/InheritConstructorsASTTransformation.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/antlr/treewalker/VisitorAdapter.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesUnaryExpressionHelper.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/HandleMetaClass.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/AnnotationNode.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/callsite/PogoGetPropertySite.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/typehandling/NumberMathModificationInfo.java

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/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/groovy/transform/WithReadLock.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/groovy/util/OrderBy.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/ast/stmt/CatchStatement.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/groovy/time/BaseDuration.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/ast/expr/BitwiseNegationExpression.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/groovy/io/LineColumnReader.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/util/SingleKeyHashMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/antlr/treewalker/PreOrderTraversal.java  
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/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/classgen/InnerClassVisitorHelper.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/ast/expr/Expression.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/groovy/transform/stc/ClosureSignatureConflictResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/runtime/callsite/BooleanReturningMethodInvoker.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/util/AbstractConcurrentMapBase.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/ast/InterfaceHelperClassNode.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/groovy/lang/ClosureException.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/runtime/typehandling/GroovyCastException.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/ast/AstToTextHelper.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/vmplugin/v5/Java5.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/control/ASTTransformationsContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/runtime/callsite/PojoMetaMethodSite.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/transform/LazyASTTransformation.java  
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jar/org/codehaus/groovy/runtime/typehandling/BigIntegerMath.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-



jar/org/apache/groovy/internal/util/Supplier.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/antlr/treewalker/SourceCodeTraversal.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/reflection/ClassInfo.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/runtime/callsite/GetEffectivePogoFieldSite.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/groovy/beans/VetoableASTTransformation.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/groovy/transform/VisibilityOptions.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/tools/javac/JavaCompilerFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/GroovyExceptionInterface.java  
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/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/groovy/lang/GrabResolver.java  
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jar/org/codehaus/groovy/runtime/callsite/ConstructorMetaMethodSite.java  
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jar/groovy/lang/ExpandoMetaClass.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/reflection/stdclasses/CharacterCachedClass.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/classgen/ReturnAdder.java  
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\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/groovy/lang/GroovyClassLoader.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/groovy/transform/SelfType.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/runtime/dgmimpl/arrays/ObjectArrayGetAtMetaMethod.java  
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\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/groovy/transform/ExternalizeVerifier.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/runtime/metaclass/MissingPropertyExceptionNoStack.java  
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/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
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jar/groovy/util/ResourceException.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/runtime/ProcessGroovyMethods.java  
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jar/groovy/lang/MissingPropertyException.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/groovy/lang/Buildable.java  
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/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/antlr/java/Java2GroovyMain.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/reflection/CachedConstructor.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/transform/stc/TraitTypeCheckingExtension.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/classgen/asm/TypeChooser.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/ast/stmt/ReturnStatement.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/reflection/MixinInMetaClass.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/classgen/asm/VariableSlotLoader.java  
\*

/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/Synchronized.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/io/StringReaderSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/asm/BinaryBooleanExpressionHelper.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/Tuple.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/stc/ClosureSignatureHint.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/ClassHelper.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/vmplugin/v7/TypeTransformers.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/metaclass/OwnedMetaClass.java  
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/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/ui/GroovyMain.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/MethodNode.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/tools/GrapeUtil.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/stc/SecondParam.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/sc/transformers/StaticMethodCallExpressionTransformer.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/ConditionalInterrupt.groovy  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/asm/ClosureWriter.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/Parameter.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/antlr/LineColumn.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/ScriptBytecodeAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/typehandling/DefaultTypeTransformation.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/util/Eval.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/Verifier.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/BaseScriptASTTransformation.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/tools/LoaderConfiguration.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/dgmimpl/arrays/CharacterArrayPutAtMetaMethod.java

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/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/tools/GroovyClass.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/vmplugin/v8/PluginDefaultGroovyMethods.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/util/ListBufferedIterator.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/InheritConstructors.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/wrappers/ShortWrapper.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/ExternalizeMethodsASTTransformation.java
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/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/LogASTTransformation.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/ImmutableBase.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/ASTNode.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
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/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/util/Finalizable.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/apache/groovy/util/Maps.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
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*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/metaclass/NewInstanceMetaMethod.java

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\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/messages/SyntaxErrorMessage.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/options/DefaultPropertyHandler.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/CompilerConfiguration.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/expr/VariableExpression.java  
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 /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/expr/BinaryExpression.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/util/ClosureComparator.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/customizers/ASTTransformationCustomizer.groovy  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/Generated.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/WritableFile.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/EncodingGroovyMethods.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/beans/Bindable.java  
 \* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/BytecodeExpression.java  
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/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/Immutable.groovy  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/cli/Unparsed.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/tailrec/TernaryToIfStatementConverter.groovy  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/typehandling/FloatingPointMath.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/sc/transformers/CompareToNullExpression.java  
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\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/decompiled/DecompiledClassNode.java  
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/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/ASTTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/tools/GroovyStarter.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/util/PermutationGenerator.java  
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\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/expr/SpreadExpression.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/wrappers/DoubleWrapper.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/tools/Compiler.java  
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/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/Method.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/security/GroovyCodeSourcePermission.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/reflection/v7/GroovyClassValueJava7.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/util/NodeBuilder.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/ImmutableASTTransformation.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/ClassGenerator.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/Tuple4.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/customizers/builder/InlinedASTCustomizerFactory.java

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jar/org/codehaus/groovy/transform/stc/TypeCheckingContext.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/typehandling/IntegerMath.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/ModuleNode.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/Lazy.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
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/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
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* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
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 jar/org/codehaus/groovy/runtime/typehandling/LongMath.java  
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 jar/groovy/util/logging/Log4j.java  
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 jar/groovy/util/ConfigSlurper.groovy  
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\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesStatementWriter.java  
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\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/asm/sc/StaticTypesCallSiteWriter.java  
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\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/EnumVisitor.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/WithWriteLock.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/antlr/treewalker/Visitor.java  
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/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/vmplugin/VMPlugin.java  
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/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/stc/StaticTypesMarker.java  
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\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/Grab.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/PackageScope.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/FinalVariableAnalyzer.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/stc/TypeCheckingExtension.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/memoize/ProtectionStorage.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/MetaClassRegistryChangeListener.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/RegexSupport.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/Category.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/tools/javac/JavacCompilerFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/Singleton.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/syntax/SyntaxException.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/sc/transformers/ListExpressionTransformer.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/expr/PrefixExpression.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/EqualsAndHashCodeASTTransformation.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/reflection/CachedClass.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/options/PropertyHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/expr/ExpressionTransformer.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/stmt/SwitchStatement.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/ConditionalInterruptibleASTTransformation.groovy  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/expr/ArrayExpression.java  
\*

/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/callsite/PogoMetaClassGetPropertySite.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/expr/AnnotationConstantExpression.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/DelegatingMetaClass.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/MutableMetaClass.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/asm/indy/sc/IndyStaticTypesMultiTypeDispatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/stmt/BreakStatement.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/vmplugin/v7/Selector.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/tools/GeneralUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/callsite/PojoMetaClassGetPropertySite.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/io/AbstractReaderSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/stc/SignatureCodecVersion1.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/util/MapEntry.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/customizers/CompilationCustomizer.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/Mixin.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/expr/ClosureExpression.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/Grapes.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/time/DatumDependentDuration.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/customizers/SourceAwareCustomizer.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/callsite/BooleanClosureWrapper.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/GeneratorContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/ConfigurationException.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/SpreadMapEvaluatingException.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/syntax/Numbers.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-

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jar/org/codehaus/groovy/transform/ASTTransformationVisitor.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/GString.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/IndexedProperty.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/GroovySystem.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/util/LockableObject.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/tools/RootLoader.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/metaclass/MethodHelper.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/ToString.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/asm/sc/StaticPropertyAccessHelper.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/syntax/ASTHelper.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/asm/sc/StaticInvocationWriter.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/StringGroovyMethods.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/reflection/stdclasses/ArrayCachedClass.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/TypeChecked.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/io/GroovyPrintWriter.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/GroovyInterceptable.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/apache/groovy/plugin/DefaultRunners.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/builder/AstBuilder.groovy
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/Tuple5.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/control/messages/SimpleMessage.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/control/customizers/builder/ASTTransformationCustomizerFactory.groovy
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/ClassNode.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/callsite/ClassMetaClassGetPropertySite.java
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/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/GroovyASTTransformationClass.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/metaclass/MissingMethodExceptionNoStack.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/expr/MapExpression.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/ml2n/ExtensionModuleRegistry.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/vmplugin/v8/Java8.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/expr/ConstantExpression.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/util/ProxyGenerator.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/MetaClassRegistry.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/control/XStreamUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/stc/StaticTypeCheckingVisitor.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/MetaObjectProtocol.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/apache/groovy/lang/annotation/Incubating.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/FieldASTTransformation.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/grape/GrapeIvy.groovy  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/cli/UnparsedField.groovy  
\*  
/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/DummyClassGenerator.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/ListWithDefault.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/Tuple9.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/asm/OptimizingStatementWriter.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/asm/BytecodeDumper.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/EmptyRange.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/reflection/stdclasses/BooleanCachedClass.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/util/NodePrinter.java

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/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/GroovyASTTransformation.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/ui/GroovySocketServer.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/expr/DeclarationExpression.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/ast/expr/MethodCall.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/TupleConstructor.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/control/ClassNodeResolver.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/Tuple7.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/MetaClassHelper.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/stc/FromString.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/lang/GrabConfig.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/memoize/MemoizeCache.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/metaclass/TransformMetaMethod.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/AnnotationCollectorTransform.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/SortableASTTransformation.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/transform/stc/SecondPassExpression.java
*
/opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/util/logging/Log4j2.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/tools/FileSystemCompiler.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/apache/groovy/internal/metaclass/MetaClassConstant.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/beans/DefaultPropertyReader.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/groovy/transform/NamedDelegate.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/runtime/m12n/PropertiesModuleFactory.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-
jar/org/codehaus/groovy/classgen/asm/OperandStack.java
* /opt/ws_local/PERMITS_SQL/1033409001_1594217124.39/0/groovy-2-5-7-sources-1-

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jar/org/codehaus/groovy/util/ManagedLinkedList.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/transform/AutoCloneASTTransformation.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/control/customizers/DelegatingCustomizer.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/ast/GroovyClassVisitor.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/tools/shell/util/Preferences.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/groovy/lang/Reference.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/ast/MethodInvocationTrap.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/ast/decompiled/FormalParameterParser.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/runtime/IteratorClosureAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/groovy/lang/Tuple3.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/groovy/grape/Grape.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/runtime/metaclass/MixinInstanceMetaMethod.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/groovy/lang/GroovyCodeSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/transform/ASTTransformationCollectorCodeVisitor.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/transform/trait/NAryOperationRewriter.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/groovy/util/GroovyCollections.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/antlr/ASTRuntimeException.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/util/ComplexKeyHashMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/runtime/StackTraceUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/transform/tailrec/VariableExpressionReplacer.groovy  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/ast/CompileUnit.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/transform/trait/TraitReceiverTransformer.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/runtime/ConvertedClosure.java



\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/callsite/GetEffectivePojoFieldSite.java

\*

/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/util/LazyReference.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/ToStringASTTransformation.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/reflection/ClassLoaderForClassArtifacts.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/vmplugin/v5/PluginDefaultGroovyMethods.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/beans/ListenerList.groovy

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/dgmimpl/NumberNumberMultiply.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/Reflector.java

\*

/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/ast/expr/FieldExpression.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/callsite/CallSiteGenerator.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/transform/stc/FirstParam.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/sc/StaticCompilationVisitor.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/stc/SignatureCodec.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/beans/PropertyReader.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/groovy/lang/TracingInterceptor.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/vmplugin/v7/IndyInterface.java

\*

/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/ConvertedMap.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/asm/MethodCallerMultiAdapter.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/transform/ExternalizeVerifierASTTransformation.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/runtime/wrappers/BooleanWrapper.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/codehaus/groovy/classgen/asm/ExpressionAsVariableSlot.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-jar/org/apache/groovy/internal/util/UncheckedThrow.java

\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-

jar/org/codehaus/groovy/antlr/treewalker/NodeAsHTMLPrinter.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/util/ReferenceBundle.java  
\* /opt/ws\_local/PERMITS\_SQL/1033409001\_1594217124.39/0/groovy-2-5-7-sources-1-  
jar/org/codehaus/groovy/control/ParserPlugin.java

# 1.190 commons-compress 1.20

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```
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```

```
package cmd
```

```
func initGpl2() {
    Licenses["gpl2"] = License{
        Name:          "GNU General Public License 2.0",
        PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
        Header: `
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}  
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```

package cmd

```
func initBsdClause3() {  
    Licenses["bsd"] = License{  
        Name: "NewBSD",  
        PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},  
        Header: `All rights reserved.`  
    }  
}
```

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`  
}  
}

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package cmd

import (
    "strings"
    "time"

    "github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the
// header to be used with each file on the file's creating, and the text
// of the license
type License struct {
    Name      string // The type of license in use
    PossibleMatches []string // Similar names to guess
    Text      string // License text data
    Header    string // License header for source files
}

func init() {
    // Allows a user to not use a license.
    Licenses["none"] = License{"None", []string{"none", "false", "", ""}}

    initApache2()
    initMit()
    initBsdClause3()
    initBsdClause2()
    initGpl2()
    initGpl3()
    initLgpl()
    initAgnpl()
}

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {

```

```

// If explicitly flagged, use that.
if userLicense != "" {
    return findLicense(userLicense)
}

// If user wants to have custom license, use that.
if viper.IsSet("license.header") || viper.IsSet("license.text")
{
    return License{Header: viper.GetString("license.header"),
        Text: viper.GetString("license.text")}
}

// If user wants to have built-in license, use that.
if viper.IsSet("license") {
    return findLicense(viper.GetString("license"))
}

// If user didn't set any license, use Apache 2.0 by default.
return Licenses["apache"]
}

func copyrightLine() string {
    author := viper.GetString("author")

    year := viper.GetString("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }

    return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        er("unknown license: " + name)
    }
    return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank
string or it didn't find
// then appropriate match to name.

```

```

func matchLicense(name string) string {
    if name == "" {
        return ""
    }

    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(name, match) {
                return key
            }
        }
    }

    return ""
}

```

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package cmd

```
func initGpl3() {
Licenses["gpl3"] = License{
    Name: "GNU General Public License 3.0",
    PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
    Header: `
```

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```

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```
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under certain conditions; type 'show c' for details.
```

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```
`  
`  
}  
}
```

```
package cmd
```

```
func initLgpl() {  
  Licenses["lgpl"] = License{  
    Name: "GNU Lesser General Public License",  
    PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},  
    Header: `  
This program is free software: you can redistribute it and/or modify  
it under the terms of the GNU Lesser General Public License as published by  
the Free Software Foundation, either version 3 of the License, or  
(at your option) any later version.
```

```
`  
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MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU Lesser General Public License for more details.
```

```
`  
You should have received a copy of the GNU Lesser General Public License  
along with this program. If not, see http://www.gnu.org/licenses/.`  
Text: ` GNU LESSER GENERAL PUBLIC LICENSE  
Version 3, 29 June 2007
```

```
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```
}  
}  
package cmd
```

```
func initAgpl() {  
  Licenses["agpl"] = License{  
    Name: "GNU Affero General Public License",  
    PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"},  
    Header: `  
This program is free software: you can redistribute it and/or modify  
it under the terms of the GNU Affero General Public License as published by  
the Free Software Foundation, either version 3 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 Affero General Public License for more details.
```

```
You should have received a copy of the GNU Affero General Public License  
along with this program. If not, see <http://www.gnu.org/licenses/>.`  
Text: ` GNU AFFERO GENERAL PUBLIC LICENSE  
Version 3, 19 November 2007
```

```
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```
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`  
}  
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```

package cmd

```
func initApache2() {  
    Licenses["apache"] = License{  
        Name:      "Apache 2.0",  
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},  
        Header: `    Licensed under the Apache License, Version 2.0 (the "License");  
    you may not use this file except in compliance with the License.  
    You may  
    obtain a copy of the License at  
  
    http://www.apache.org/licenses/LICENSE-2.0
```

```
    Unless required by applicable law or agreed to in writing, software  
    distributed under the License is distributed on an "AS IS" BASIS,  
    WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
    See the License for the specific language governing permissions and  
    limitations under the License.`  
    Text: `
```

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```
package cmd
```

```
func initMit() {
```

```
    Licenses["mit"] = License{
```

```
        Name:      "MIT License",
```

```
        PossibleMatches: []string{"mit"},
```

```
        Header: `
```

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```
package cmd
```

```
func initBsdClause2() {
```

```
    Licenses["freetsd"] = License{
```

```
        Name: "Simplified BSD License",
```

```
        PossibleMatches: []string{"freetsd", "simpbsd", "simple bsd", "2-clause bsd",
```

```
            "2 clause bsd", "simplified bsd license"},
```

```
        Header: `All rights reserved.
```

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\* /opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/ElementQNameIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/ElementIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/ElementHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/CDATA.java  
\* /opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Document.java  
\* /opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/Action.java  
\* /opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Comment.java  
\* /opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Entity.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/bean/BeanDocumentFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/FlyweightCDATA.java  
\* /opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/IllegalAddException.java  
\* /opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/jaxb/JAXBModifier.java  
\* /opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/FilterIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/dom/DOMDocumentType.java  
\* /opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/Pattern.java  
\* /opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/Rule.java  
\* /opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/NamespaceStack.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/NamespaceCache.java  
\* /opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/jaxb/JAXBObjectHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/DOMReader.java  
\* /opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/QName.java  
\* /opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/VisitorSupport.java  
\* /opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/InvalidXPathException.java  
\* /opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/XPath.java  
\* /opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/bean/BeanMetaData.java  
\* /opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-

jar/org/dom4j/dtd/ElementDecl.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-  
jar/org/dom4j/io/XMLWriter.java  
\* /opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-  
jar/org/dom4j/rule/pattern/DefaultPattern.java  
\* /opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-  
jar/org/dom4j/xpath/XPathPattern.java  
\* /opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-  
jar/org/dom4j/tree/DefaultCDATA.java  
\* /opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-  
jar/org/dom4j/io/PruningDispatchHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1034543185\_1588830303.8/0/dom4j-2-1-3-sources-  
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- \* /opt/ws\_local/PERMITS\_SQL/1046144794\_1589880088.21/0/junixsocket-common-2-3-2-sources-jar/org/newsclub/net/unix/AFUNIXSocket.java
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- /opt/ws\_local/PERMITS\_SQL/1046144794\_1589880088.21/0/junixsocket-common-2-3-2-sources-jar/org/newsclub/net/unix/AFUNIXServerSocket.java
- \* /opt/ws\_local/PERMITS\_SQL/1046144794\_1589880088.21/0/junixsocket-common-2-3-2-sources-jar/org/newsclub/net/unix/NativeLibraryLoader.java
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- /opt/ws\_local/PERMITS\_SQL/1046144794\_1589880088.21/0/junixsocket-common-2-3-2-sources-jar/org/newsclub/net/unix/AFUNIXSocketFactory.java

## 1.199 junixsocket-native-common 2.3.2

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# 1.200 jackson-dataformat-yaml 2.11.0

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```

com.fasterxml.jackson.dataformat.smile.SmileFactory

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```
* /opt/ws_local/PERMITS_SQL/1047446251_1595313867.14/0/jackson-dataformat-smile-2-11-0-sources-
jar/META-INF/services/com.fasterxml.jackson.core.JsonFactory
```

## 1.203 jackson-module-parameter-names

### 2.11.0

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*/
```

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```
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# 1.208 angular-bootstrap-slider 0.1.26

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## 1.213 @angular/core 9.0.7

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## 1.218 hash.js 1.1.7

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```
# hash.js [![Build Status](https://secure.travis-ci.org/indutny/hash.js.svg)](http://travis-ci.org/indutny/hash.js)
```

Just a bike-shed.

```
## Install
```

```
```sh
```

```
npm install hash.js
```

```
```
```

```
## Usage
```

```
```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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## 1.219 @angular/platform-browser-dynamic

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```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1047774383\_1591199562.97/0/angular-socket-io-0-7-0-3-tgz/package/socket.js

\* /opt/ws\_local/PERMITS\_SQL/1047774383\_1591199562.97/0/angular-socket-io-0-7-0-3-

tgz/package/socket.min.js

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```
/*  
* angular-socket-io v0.4.1  
* (c) 2014 Brian Ford http://briantford.com  
* License: MIT  
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1047774383_1591199562.97/0/angular-socket-io-0-7-0-3-  
tgz/package/socket.spec.js
```

## 1.224 flatpickr 4.6.2

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## 1.225 md5.js 1.3.5

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## 1.226 global 4.4.0

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## 1.227 ng-focus-if 1.0.7

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## 1.228 ngclipboard 1.1.1

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## 1.229 @angular/platform-browser 9.0.7

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## 1.230 angular-simple-logger 0.1.7

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## 1.231 ngdraggable 0.1.10

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## 1.232 html5-boilerplate 5.3.0

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## 1.233 angular-google-maps 2.3.2

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## 1.234 angular-upgrade 9.0.7

### 1.234.1 Available under license :

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```
{ "version": 3, "sources": [ "packages/upgrade/upgrade-static-testing.umd.js" ], "names": [ "global", "factory", "exports", "module", "require", "define", "amd", "self", "ng", "upgrade", "static", "testing", "core", "this", "__metadata", "metadataKey", "metadataValue", "Reflect", "metadata", "noNg", "Error", "noNgElement", "cleanData", "angular", "bootstrap", "element", "injector", "version", "undefined", "resumeBootstrap", "getTestability", "window", "hasOwnProperty", "_a", "injector$1", "module_", "prefix", "dependencies", "$injector", "$injectorFactory", "AngularTestingModule", "__decorate", "decorators", "target", "key", "desc", "d", "c", "arguments", "length", "r", "Object", "getOwnPropertyDescriptor", "decorate", "i", "defineProperty", "NgModule", "providers", "provide", "useFactory", "Injector", "createAngularJSTestingModule", "angularModules", "constant", "TestBed", "configureTestingModule", "imports", "useValue", "inject", "name", "createAngularTestingModule", "angularJSModules", "strictDi", "modules", "angular_packages_upgrade_static_testing_testing_a", "angular_packages_upgrade_static_testing_testing_b", "angular_packages_upgrade_static_testing_testing_d", "value" ], "mappings": ";;;;;;;;;CAMC,SAAUA,EAAQC,GACI,iBAAZC,SAAOC,oBAAXC,OAAyBF,EAAQC,QAASE,QAAQ,iBAaKBA,QAAQ,0BACHG,mBAAXC,QAAyBA,OAAOC,IAAMD,OAAO,kCAAmC,CAAC,UAAW,gBAAiB,yBAA0BJ,GACpHA,IAAzBD,EAASA,GAAUO,MAAsBC,GAAKR,EAAOQ,IAAM,GAAIR,EAAOQ,GAAGC,QAAUT,EAAOQ,GAAGC,SAAW,GAAIT,EAAOQ,GAAGC,QAAQC,OAAVS,EAAOQ,GAAGC,QAAQC,QAAU,GAAIV,EAAOQ,GAAGC,QAAQC,OAAOC,QAAU,IAAKX,EAAOQ,GAAGI,KAAMZ,EAAOQ,GAAGI,KAARD,SAHnP,CAIEE,MAAM,SAAWX,EAASU,EAAMD,GAAW;;;;;;;;;;;;;oFAiEzC,SAASG,EAAWC,EAAaC,GAC7B,GAAuB,iBAAZC,SAAoD,mBAArBA,QAAQC,SAAyB,OAAOD,QAAQC,SAASH,EAAaC;;;;;;;;;AA4IpH,SAASG,IACL,MAAM,IAAIC,MAAM,iCAEpB,IAAIC,EAAc,WAAe,OAAOF,KACxCE,EAAyC,UAAyH,EACxB,IAAII,EAAU,CACVC,UAAWL,EACXhB,OAAQgB,EACRM,QAASJ,EACTK,SAAUP,EACVQ,aAASC,EACTC,gBAAiBV,EACjBW,eAAgBX,GAEPB,IACQY,OAAOC,eAAe,aACiBT,EAAUQ,OAAOR,SAGzB,MAAOU,IAqCP,IASDIC,EAJDAC,EAAU,SAAUC,EAAQC,GAC5B,OAAOd,EAAQpB,OAAOiC,EAAQC,IA+C9BC,EAAy,KAehB,SAASC,IACL,OAAOD,EAEX,IAAIE,EA1QJ,SAASC,EAAWC,EAAyC,EAAQC,EAAKC,GACzC,IAA2HC,EAAvHC,EAAIC,UAAUC,OAAQC,EAAIH,EAAI,EAAIJ,EAAkB,OAATE,EAAgBA,EAAOM,OAAOC,yBAAyBT,EAAQC,GAAOC,EACrH,GAAuB,iBAAZ5B,SAAoD,mBAArBA,QAAQoC,SAAyBH,EAAIjC,QAAQoC,SAASX,EAAyC,EAAQC,EAAKC,QACpH,IAAK,IAAIS,EAAIZ,E
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ontent":["/\*\*\n

```
* @license Angular v9.0.7\n * (c) 2010-2020 Google LLC. https://angular.io\n * License: MIT\n\n(function\n(global, factory) {\n  typeof exports === 'object' && typeof module !== 'undefined' ? factory(exports,\n  require('@angular/core'), require('@angular/core/testing')) :\n  typeof define === 'function' && define.amd ?\n  define('@angular/upgrade/static/testing', ['exports', '@angular/core', '@angular/core/testing'], factory) :\n  (global =\n  global || self, factory((global.ng = global.ng || {}), global.ng.upgrade = global.ng.upgrade || {}),\n  global.ng.upgrade.static = global.ng.upgrade.static || {}, global.ng.upgrade.static.testing = {}), global.ng.core,\n  global.ng.core.testing));\n}(this,\n\n(function (exports, core, testing) {\n  'use strict';\n\n  /*!
```

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```

r) : d(target, key)) || r;\r\n    return c > 3 && r && Object.defineProperty(target, key, r, r);\r\n  }\r\n\r\nfunction __param(paramIndex, decorator) {\r\n    return function (target, key) { decorator(target, key,
paramIndex); }\r\n  }\r\n\r\nfunction __metadata(metadataKey, metadataValue) {\r\n    if (typeof Reflect ===
"object" && typeof Reflect.metadata === "function") return Reflect.metadata(metadataKey, metadataValue);\r\n
}\r\n\r\nfunction __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
}\r\n    });\r\n\r\nfunction step(result) { result.done ? resolve(result.value) : new P(function (resolve) { resolve(result.value);
}).then(fulfilled, rejected); }\r\n
}\r\n\r\nfunction
__generator(thisArg, body) {\r\n    var _ = { label: 0, sent: function() { if (t[0] & 1) throw t[1]; return t[1]; }, trys:
[], ops: [] }, f, y, t, g;\r\n    return g = { next: verb(0), "throw": verb(1), "return": verb(2) }, typeof Symbol ===
"function" && (g[Symbol.iterator] = function() { return this; }), g;\r\n    function verb(n) { return function (v) {
return step([n, v]); }; }\r\n    function step(op) {\r\n        if (f) throw new TypeError("Generator is already
executing.");\r\n        while (_) try {\r\n            if (f = 1, y && (t = op[0] & 2 ? y["return"] : op[0] ?
y["throw"] || ((t = y["return"]) && t.call(y), 0) : y.next) && !(t = t.call(y, op[1])).done) return t;\r\n            if (y
= 0, t) op = [op[0] & 2, t.value];\r\n            switch (op[0]) {\r\n                case 0: case 1: t = op; break;\r\n
                case 4: _label++; return { value: op[1], done: false };\r\n                case 5: _label++; y = op[1]; op =
[0]; continue;\r\n                case 7: op = _ops.pop(); _trys.pop(); continue;\r\n                default:\r\n
                    if (!(t = _trys, t = t.length > 0 && t[t.length - 1]) && (op[0] === 6 || op[0] === 2)) { _ = 0; continue; }\r\n
                    if (op[0] === 3 && (!t || (op[1] > t[0] && op[1] < t[3]))) { _label = op[1]; break; }\r\n                    if (op[0]
=== 6 && _label < t[1]) { _label = t[1]; t = op; break; }\r\n                    if (t && _label < t[2]) { _label = t[2];
_ops.push(op); break; }\r\n                    if (t[2]) _ops.pop();\r\n                    _trys.pop(); continue;\r\n
                }\r\n            op = body.call(thisArg, _);\r\n        } catch (e) { op = [6, e]; y = 0; } finally { f = t = 0; }\r\n
}\r\n    if (op[0] & 5) throw op[1]; return { value: op[0]
? op[1] : void 0, done: true }; }\r\n  }\r\n\r\nfunction __exportStar(m, exports) {\r\n    for (var p in m)
if (!exports.hasOwnProperty(p)) exports[p] = m[p];\r\n  }\r\n\r\nfunction __values(o) {\r\n    var m = typeof
Symbol === "function" && o[Symbol.iterator], i = 0;\r\n    if (m) return m.call(o);\r\n    return {\r\n
next: function () {\r\n        if (o && i >= o.length) o = void 0;\r\n        return { value: o && o[i++], done:
!o };\r\n    };\r\n  }\r\n\r\nfunction __read(o, n) {\r\n    var m = typeof Symbol === "function"
&& o[Symbol.iterator];\r\n    if (!m) return o;\r\n    var i = m.call(o), r, ar = [], e;\r\n    try {\r\n        while
((n === void 0 || n-- > 0) && !(r = i.next()).done) ar.push(r.value);\r\n    } catch (error) { e = { error: error
}; }\r\n    finally {\r\n        try {\r\n            if (r && !r.done && (m = i["return"]))
m.call(i);\r\n        } finally { if (e) throw e.error; }\r\n    }\r\n    return ar;\r\n  }\r\n\r\nfunction
__spread() {\r\n    for (var ar = [], i = 0; i < arguments.length; i++)\r\n        ar =
ar.concat(__read(arguments[i]));\r\n    return ar;\r\n  }\r\n\r\nfunction __spreadArrays() {\r\n    for (var s =
0, i = 0, il = arguments.length; i < il; i++) s += arguments[i].length;\r\n    for (var r = Array(s), k = 0, i = 0; i < il;
i++)\r\n        for (var a = arguments[i], j = 0, jl = a.length; j < jl; j++, k++)\r\n            r[k] = a[j];\r\n    return
r;\r\n  }\r\n\r\nfunction __await(v) {\r\n    return this instanceof __await ? (this.v = v, this) : new
__await(v);\r\n  }\r\n\r\nfunction __asyncGenerator(thisArg, _arguments, generator) {\r\n    if
(!Symbol.asyncIterator) throw new TypeError("Symbol.asyncIterator is not defined.");\r\n    var g =
generator.apply(thisArg, _arguments ||
[]), i, q = [];\r\n    return i = { }, verb("next"), verb("throw"), verb("return"), i[Symbol.asyncIterator] =
function () { return this; }, i;\r\n    function verb(n) { if (g[n]) i[n] = function (v) { return new Promise(function (a,
b) { q.push([n, v, a, b]) > 1 || resume(n, v); }); }; }\r\n    function resume(n, v) { try { step(g[n](v)); } catch (e) {
settle(q[0][3], e); } }\r\n    function step(r) { r.value instanceof __await ? Promise.resolve(r.value.v).then(fulfill,
reject) : settle(q[0][2], r); }\r\n    function fulfill(value) { resume("next", value); }\r\n    function reject(value)
{ resume("throw", value); }\r\n    function settle(f, v) { if (f(v), q.shift(), q.length) resume(q[0][0], q[0][1]); }\r\n
}

```

```

    }
    function __asyncDelegator(o) {
        var i, p;
        return i = { }, verb("next"), verb("throw"),
        function (e) { throw e; }, verb("return"), i[Symbol.iterator] = function () { return this; }, i;
        function
        verb(n, f) { i[n] = o[n] ? function (v) { return (p = !p) ? { value: __await(o[n](v)), done: n === "return" } : f ? f(v)
        : v; } : f; }
    }
    function __asyncValues(o) {
        if (!Symbol.asyncIterator) throw new
        TypeError("Symbol.asyncIterator is not defined.");
        var m = o[Symbol.asyncIterator], i;
        return m ?
        m.call(o) : (o = typeof __values === "function" ? __values(o) : o[Symbol.iterator](), i = { }, verb("next"),
        verb("throw"), verb("return"), i[Symbol.asyncIterator] = function () { return this; }, i);
        function verb(n) {
            i[n] = o[n] && function (v) { return new Promise(function (resolve, reject) { v = o[n](v), settle(resolve, reject,
            v.done, v.value); }); };
        }
        function settle(resolve, reject, d, v) { Promise.resolve(v).then(function(v) {
            resolve({ value: v, done: d }); }, reject); }
    }
    function __makeTemplateObject(cooked, raw) {
        if (Object.defineProperty) { Object.defineProperty(cooked,
        "raw", { value: raw }); } else { cooked.raw = raw; }
        return cooked;
    }
    function
    __importStar(mod) {
        if (mod && mod.__esModule) return mod;
        var result = {};
        if (mod !=
        null) for (var k in mod) if (Object.hasOwnProperty.call(mod, k)) result[k] = mod[k];
        result.default =
        mod;
        return result;
    }
    function __importDefault(mod) {
        return (mod &&
        mod.__esModule) ? mod : { default: mod };
    }
    /**
     * @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 noNg() {
        throw new Error('AngularJS
        v1.x is not loaded!');
    }
    var noNgElement = (function () { return noNg(); });
    noNgElement.cleanData =
    noNg;
    var angular = {
        bootstrap: noNg,
        module: noNg,
        element: noNgElement,
        injector: noNg,
        version: undefined,
        resumeBootstrap: noNg,
        getTestability: noNg
    };
    try {
        if (window.hasOwnProperty('angular')) {
            angular =
            window.angular;
        }
    } catch (_a) {
        // ignore in CJS mode.
    }
    /**
     * @deprecated Use
     `setAngularJSGlobal` instead.
     * @publicApi
     */
    function setAngularLib(ng) {
        setAngularJSGlobal(ng);
    }
    /**
     * @deprecated Use `getAngularJSGlobal` instead.
     * @publicApi
     */
    function getAngularLib() {
        return getAngularJSGlobal();
    }
    /**
     * Resets
     the AngularJS global.
     * Used when AngularJS is loaded lazily, and not available on `window`.
     * @publicApi
     */
    function setAngularJSGlobal(ng) {
        angular = ng;
    }
    /**
     * Returns the
     current AngularJS global.
     * @publicApi
     */
    function getAngularJSGlobal() {
        return angular;
    }
    var bootstrap = function (e, modules,
    config) {
        return angular.bootstrap(e, modules, config);
    };
    // Do not declare as `module` to avoid
    webpack bug
    // (see https://github.com/angular/angular/issues/30050).
    var module_ = function (prefix,
    dependencies) {
        return angular.module(prefix, dependencies);
    };
    var element = (function (e) { return
    angular.element(e); });
    element.cleanData = function (nodes) { return angular.element.cleanData(nodes); };
    var injector = function (modules, strictDi) { return angular.injector(modules, strictDi); };
    var resumeBootstrap =
    function () { return angular.resumeBootstrap(); };
    var getTestability = function (e) { return
    angular.getTestability(e); };
    /**
     * @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 $COMPILE = '$compile';
    var
    $CONTROLLER = '$controller';
    var $DELEGATE = '$delegate';
    var $EXCEPTION_HANDLER =
    '$exceptionHandler';
    var $HTTP_BACKEND = '$httpBackend';
    var $INJECTOR = '$injector';
    var
    $INTERVAL = '$interval';
    var $PARSE = '$parse';
    var $PROVIDE = '$provide';
    var $ROOT_SCOPE =
    '$rootScope';
    var $SCOPE = '$scope';
    var $TEMPLATE_CACHE = '$templateCache';
    var
    $TEMPLATE_REQUEST = '$templateRequest';
    var $$TESTABILITY = '$$testability';
    var
    COMPILER_KEY = '$$angularCompiler';
    var DOWNGRADED_MODULE_COUNT_KEY =
    '$$angularDowngradedModuleCount';
    var GROUP_PROJECTABLE_NODES_KEY =
    '$$angularGroupProjectableNodes';
    var INJECTOR_KEY = '$$angularInjector';
    var LAZY_MODULE_REF
    = '$$angularLazyModuleRef';
    var NG_ZONE_KEY = '$$angularNgZone';
    var

```

```

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   * 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 $injector = null;\n   var injector$1;\n   function
$injectorFactory() {\n     return $injector;\n   }\n   var AngularTestingModule = /** @class */ (function () {\n
function AngularTestingModule(i) {\n     injector$1 = i;\n   }\n   AngularTestingModule = __decorate([\n
     core.NgModule({ providers: [{ provide: $INJECTOR, useFactory: $injectorFactory } ]}),\n
     __metadata("design:paramtypes", [core.Injector])\n   ], AngularTestingModule);\n   return
AngularTestingModule;\n   }());\n   /**\n   * A helper function to use when unit testing Angular services that
depend upon upgraded AngularJS\n   * services.\n   *\n   * This function returns an `NgModule` decorated class
that is configured to wire up the Angular\n   * and AngularJS injectors without the need to actually bootstrap a
hybrid application.\n   * This makes it simpler and faster to unit test services.\n   *\n   * Use the returned class as
an `import` when configuring the ` TestBed`.\n   *\n   * In the following code snippet, we are configuring the
TestBed with two imports.\n   * The `Ng2AppModule` is the Angular part of our hybrid application and the
`ng1AppModule` is the\n   * AngularJS part.\n   *\n   * <code-example
path="upgrade/static/ts/full/module.spec.ts" region="angular-setup"></code-example>\n   *\n   * Once this is
done we can get hold of services via the Angular `Injector` as normal.\n   * Services that are (or have dependencies
on) an upgraded AngularJS service, will be instantiated\n   * as needed by the AngularJS `$injector`.\n   *\n   * In the following code snippet, `HeroesService` is an Angular service that depends upon an\n   *
AngularJS service, `titleCase`.\n   *\n   * <code-example path="upgrade/static/ts/full/module.spec.ts"
region="angular-spec"></code-example>\n   *\n   * <div class="alert is-important">\n   *\n   * This helper is
for testing services not Components.\n   * For Component testing you must still bootstrap a hybrid app. See
`UpgradeModule` or\n   * `downgradeModule` for more information.\n   *\n   * </div>\n   *\n   * <div
class="alert is-important">\n   *\n   * The resulting configuration does not wire up AngularJS digests to Zone
hooks. It is the\n   * responsibility of the test writer to call `$rootScope.$apply`, as necessary, to trigger\n   *
AngularJS handlers of async events from Angular.\n   *\n   * </div>\n   *\n   * <div class="alert is-
important">\n   *\n   * The helper sets up global variables to hold the shared Angular
and AngularJS injectors.\n   *\n   * * Only call this helper once per spec.\n   * * Do not use
`createAngularTestingModule` in the same spec as `createAngularJSTestingModule`.\n   *\n   * </div>\n   *\n   * Here is the example application and its unit tests that use `createAngularTestingModule`\n   * and
`createAngularJSTestingModule`.\n   *\n   * <code-tabs>\n   * <code-pane header="module.spec.ts"
path="upgrade/static/ts/full/module.spec.ts"></code-pane>\n   * <code-pane header="module.ts"
path="upgrade/static/ts/full/module.ts"></code-pane>\n   * </code-tabs>\n   *\n   *\n   * @param
angularJSMODULES a collection of the names of AngularJS modules to include in the\n   * configuration.\n   *
@param [strictDi] whether the AngularJS injector should have `strictDI` enabled.\n   * @publicApi\n   *\n   function createAngularTestingModule(angularJSMODULES, strictDi) {\n     module_('$$angularJSTestingModule',
angularJSMODULES)\n
     .constant(UPGRADE_APP_TYPE_KEY, 2 /* Static */)\n     .factory(INJECTOR_KEY, function () {\n
return injector$1; });\n     $injector = injector(['ng', '$$angularJSTestingModule'], strictDi);\n     return
AngularTestingModule;\n   }]\n   /**\n   * @license\n   * Copyright Google Inc. All Rights Reserved.\n   *\n   * Use of this source code is governed by an MIT-style license that can be\n   * found in the LICENSE file at
https://angular.io/license\n   *\n   /**\n   * A helper function to use when unit testing AngularJS services that
depend upon downgraded Angular\n   * services.\n   *\n   * This function returns an AngularJS module that is
configured to wire up the AngularJS and Angular\n   * injectors without the need to actually bootstrap a hybrid
application.\n   * This makes it simpler and faster to unit test services.\n   *\n   * Use the returned AngularJS
module in a call to\n   *
[angular.mocks.module](https://docs.angularjs.org/api/ngMock/function/angular.mock.module)

```

```

to\n * include this module in the unit test injector.\n *\n * In the following code snippet, we are configuring
the `injector` with two modules:\n * The AngularJS `ng1AppModule`, which is the AngularJS part of our hybrid
application and the\n * `Ng2AppModule`, which is the Angular part.\n *\n * <code-example
path="upgrade/static/ts/full/module.spec.ts"\n * region="angularjs-setup"></code-example>\n *\n * Once
this is done we can get hold of services via the AngularJS `injector` as normal.\n * Services that are (or have
dependencies on) a downgraded Angular service, will be instantiated as\n * needed by the Angular root
`Injector`.\n *\n * In the following code snippet, `heroesService` is a downgraded Angular service that we are\n
* accessing from AngularJS.\n *\n * <code-example path="upgrade/static/ts/full/module.spec.ts"\n *
region="angularjs-spec"></code-example>\n
*\n * <div class="alert is-important">\n *\n * This helper is for testing services not components.\n *
For Component testing you must still bootstrap a hybrid app. See `UpgradeModule` or\n * `downgradeModule`
for more information.\n *\n * </div>\n *\n * <div class="alert is-important">\n *\n * The resulting
configuration does not wire up AngularJS digests to Zone hooks. It is the\n * responsibility of the test writer to
call `$rootScope.$apply`, as necessary, to trigger\n * AngularJS handlers of async events from Angular.\n *\n
* </div>\n *\n * <div class="alert is-important">\n *\n * The helper sets up global variables to hold the
shared Angular and AngularJS injectors.\n *\n * * Only call this helper once per spec.\n * * Do not use
`createAngularJSTestingModule` in the same spec as `createAngularTestingModule`.\n *\n * </div>\n *\n
* Here is the example
application and its unit tests that use `createAngularTestingModule`\n * and `createAngularJSTestingModule`.\n
*\n * <code-tabs>\n * <code-pane header="module.spec.ts"
path="upgrade/static/ts/full/module.spec.ts"></code-pane>\n * <code-pane header="module.ts"
path="upgrade/static/ts/full/module.ts"></code-pane>\n * </code-tabs>\n *\n *\n * @param
angularModules a collection of Angular modules to include in the configuration.\n *\n * @publicApi\n *\n
function createAngularJSTestingModule(angularModules) {\n * return module_('$angularJSTestingModule',
[])\n * .constant(UPGRADE_APP_TYPE_KEY, 2 /* Static */)\n * .factory(INJECTOR_KEY, [\n
$INJECTOR,\n * function ($injector) {\n * testing.TestBed.configureTestingModule({\n
imports: angularModules,\n * providers: [{ provide: $INJECTOR, useValue: $injector }])\n * });\n
*\n * return testing.TestBed.inject(core.Injector);\n * })\n * .name;\n * };\n *\n *
**\n *
@license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an
MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n * ^\n *\n
**\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
**\n *
Generated bundle index. Do not edit.\n * ^\n *\n exports.createAngularJSTestingModule =
createAngularJSTestingModule;\n exports.createAngularTestingModule = createAngularTestingModule;\n
exports.angular_packages_upgrade_static_testing_testing_a = module_;\n
exports.angular_packages_upgrade_static_testing_testing_b = UPGRADE_APP_TYPE_KEY;\n
exports.angular_packages_upgrade_static_testing_testing_d
= INJECTOR_KEY;\n\n Object.defineProperty(exports, '__esModule', { value: true });\n\n});\n\n/#
sourceMappingURL=upgrade-static-testing.umd.js.map\n"}]

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/bundles/upgrade-
static-testing.umd.min.js.map

```

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

```

{"version":3,"file":"static.js","sources":["../../../../../packages/upgrade/src/common/src/angular1.ts","../../../../../
/packages/upgrade/src/common/src/constants.ts","../../../../../packages/upgrade/src/common/src/component_info.

```

```
ts", "../..../..../..../packages/upgrade/src/common/src/util.ts", "../..../..../..../packages/upgrade/src/common/src/downgrade_component_adapter.ts", "../..../..../..../packages/upgrade/src/common/src/promise_util.ts", "../..../..../..../packages/upgrade/src/common/src/downgrade_component.ts", "../..../..../..../packages/upgrade/src/common/src/downgrade_injectable.ts", "../..../..../..../packages/upgrade/src/common/src/version.ts", "../..../..../..../packages/upgrade/static/src/angular1_providers.ts", "../..../..../..../packages/upgrade/static/src/util.ts", "../..../..../..../packages/upgrade/static/src/downgrade_module.ts", "../..../..../..../packages/upgrade/src/common/src/upgrade_helper.ts", "../..../..../..../packages/upgrade/static/src/upgrade_component.ts", "../..../..../..../packages/upgrade/static/src/upgrade_module.ts", "../..../..../..../packages/upgrade/static/public_api.ts", "../..../..../..../packages/upgrade/static/index.ts", "../..../..../..../packages/upgrade/static/static.ts"], "sourcesContent": ["/**\n
```

```
* @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license\n * \n\nexport type Ng1Token = string;\nexport type Ng1Expression = string | Function;\nexport interface IAnnotatedFunction extends Function {\n // Older versions of `@types/angular` typings extend the global `Function` interface with\n // `$inject?: string[]`, which is not compatible with `$inject?: ReadonlyArray<string>` (used in\n // latest versions).\n $inject?: Function extends {$inject?: string[]} ? Ng1Token[]: ReadonlyArray<Ng1Token>;\n}\n\nexport type IInjectable = (Ng1Token | Function)[] | IAnnotatedFunction;\nexport type SingleOrListOrMap<T> = T | T[] | {[key: string]: T};\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}\n\nexport interface ICompileService {\n (element: Element | NodeList | Node[])string, transclude?: Function): ILinkFn;\n}\n\nexport interface ILinkFn {\n (scope: IScope, cloneAttachFn?: ICloneAttachFunction, options?: ILinkFnOptions): IAugmentedJQuery;\n $$slots?: {[slotName: string]: ILinkFn};\n}\n\nexport interface ILinkFnOptions {\n parentBoundTranscludeFn?: Function;\n transcludeControllers?: {[key: string]: any};\n futureParentElement?: Node;\n}\n\nexport interface IRootScopeService {\n $new(isolate?: boolean): IScope;\n $id: string;\n $parent: IScope;\n $root: IScope;\n $watch(exp: Ng1Expression, fn?: (a1?: any, a2?: any) => void): Function;\n $on(event: string, fn?: (event?: any, ...args: any[]) => void): Function;\n $destroy(): any;\n $apply(exp?: Ng1Expression): any;\n $digest(): any;\n $evalAsync(exp: Ng1Expression, locals?: any): void;\n $on(event: string, fn?: (event?: any, ...args: any[]) => void): Function;\n $$childTail: IScope;\n $$childHead: IScope;\n $$nextSibling: IScope;\n [key: string]: any;\n}\n\nexport interface IScope extends IRootScopeService {\n}\n\nexport interface IAngularBootstrapConfig { strictDi?: boolean; }\n\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 namespace?: string;\n terminal?: boolean;\n transclude?: DirectiveTranscludeProperty;\n}\n\nexport type DirectiveRequireProperty = SingleOrListOrMap<string>;\nexport type DirectiveTranscludeProperty = boolean | 'element' | {[key: string]: string};\n\nexport interface IDirectiveCompileFn {\n (templateElement: IAugmentedJQuery, templateAttributes: IAttributes, transclude: ITranscludeFunction): IDirectivePrePost;\n}\n\nexport interface IDirectivePrePost {\n pre?: IDirectiveLinkFn;\n post?: IDirectiveLinkFn;\n}\n\nexport interface IDirectiveLinkFn {\n (scope: IScope, instanceElement: IAugmentedJQuery, instanceAttributes: IAttributes, controller: any, transclude: ITranscludeFunction): void;\n}\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}\n\nexport interface IAttributes {\n $observe(attr: string, fn: (v: string) => void): void;\n [key: string]: any;\n}\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.

```

(cloneAttachFn?: ICloneAttachFunction):
IAugmentedJQuery;
}
export interface ICloneAttachFunction {
  (clonedElement: IAugmentedJQuery, scope:
  IScope): any;
}
export type IAugmentedJQuery = Node[] & {
  on?: (name: string, fn: () => void) => void;
  data?: (name: string, value?: any) => any;
  text?: () => string;
  inheritedData?: (name: string,
  value?: any) => any;
  contents?: () => IAugmentedJQuery;
  parent?: () => IAugmentedJQuery;
  empty?: () =>
  void;
  append?: (content: IAugmentedJQuery | string) => IAugmentedJQuery;
  controller?: (name: string) =>
  any;
  isolateScope?: () => IScope;
  injector?: () => IInjectorService;
  triggerHandler?: (eventTypeOrObject:
  string | Event, extraParameters?: any[]) => IAugmentedJQuery;
  remove?: () => void;
  removeData?: () =>
  void;
};
export interface IProvider {
  $get: IInjectable;
}
export interface IProvideService {
  provider(token:
  Ng1Token, 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: IInjectable): void;
}
export interface IParseService {
  (expression: string): ICompiledExpression;
}
export interface ICompiledExpression {
  (context: any, locals: any): any;
  assign?: (context: any, value: any) => any;
}
export interface
IHttpBackendService {
  (method: string, url: string, post?: any, callback?: Function, headers?: any, timeout?:
  number,
  withCredentials?: boolean): void;
}
export interface ICacheObject {
  put<T>(key: string, value?: T):
  T;
  get(key: string): any;
}
export interface ITemplateCacheService extends ICacheObject {}
export interface
ITemplateRequestService {
  (template: string|any /* TrustedResourceUrl */, ignoreRequestError?: boolean):
  Promise<string>;
  totalPendingRequests: number;
}
export type 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,
  ...args: any[]): Promise<any>;
  cancel(promise:
  Promise<any>): boolean;
}
export interface ITestabilityService {
  findBindings(element: Element, expression:
  string, opt_exactMatch?: boolean): Element[];
  findModels(element: Element, expression: string,
  opt_exactMatch?: boolean): Element[];
  getLocation(): string;
  setLocation(url: string): void;
  whenStable(callback: Function): void;
}
export interface INgModelController {
  $render(): void;
  $isEmpty(value: any): boolean;
  $setValidity(validationErrorKey: string, isValid: boolean): void;
  $setPristine():
  void;
  $setDirty(): void;
  $setUntouched(): void;
  $setTouched(): void;
  $rollbackViewValue(): void;
  $validate(): void;
  $commitViewValue(): void;
  $setViewValue(value: any, trigger: string): void;
  $viewValue: any;
  $modelValue: any;
  $parsers: Function[];
  $formatters: Function[];
  $validators: {[key:
  string]: Function};
  $asyncValidators: {[key: string]: Function};
  $viewChangeListeners: Function[];
  $error: Object;
  $pending:
  Object;
  $untouched: boolean;
  $touched: boolean;
  $pristine: boolean;
  $dirty: boolean;
  $valid: boolean;
  $invalid: boolean;
  $name: string;
}
function noNg(): never {
  throw new Error('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
};
ntry {
  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.
 */
@publicApi
export function
resetAngularLib(): void {}
/**
 * Used when AngularJS is loaded lazily,
  and the global is not yet defined.
 */
@publicApi
export function
lazyLoadAngularLib(): void {}
}

```





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directiveNormalize(name: string): string {\n return name.replace(DIRECTIVE_PREFIX_REGEXP, "")\n
.replace(DIRECTIVE_SPECIAL_CHARS_REGEXP, (_, letter) => letter.toUpperCase());\n}\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\n\nexport function
getDowngradedModuleCount($injector: InjectorService):
number {\n return $injector.has(DOWNGRADED_MODULE_COUNT_KEY) ?
$injector.get(DOWNGRADED_MODULE_COUNT_KEY) :\n                                0;\n}\n\n\nexport
function getUpgradeAppType($injector: InjectorService): UpgradeAppType {\n return
$injector.has(UPGRADE_APP_TYPE_KEY) ? $injector.get(UPGRADE_APP_TYPE_KEY) :\n
UpgradeAppType.None;\n}\n\n\nexport function isFunction(value: any): value is Function {\n return typeof
value === 'function';\n}\n\n\nexport function validateInjectionKey(\n $injector: InjectorService,
downgradedModule: string, injectionKey: string,\n attemptedAction: string): void {\n const upgradeAppType =
getUpgradeAppType($injector);\n const downgradedModuleCount = getDowngradedModuleCount($injector);\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 ${attemptedAction}: 'downgradedModule' not specified.\n` +\n
`This application contains more than one downgraded Angular module, thus you need to ' +\n
`always specify '\`downgradedModule\` when downgrading components and injectables.';\n }
}\n if (!$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 ${attemptedAction}: Not a valid '@angular/upgrade' application.\n` +\n
`Did you forget to downgrade an Angular module or include it in the AngularJS ' +\n
`application?');\n }
}\n}\n\n\nexport class Deferred<R> {\n promise: Promise<R>;\n //
TODO(issue/24571): remove '!.\n resolve !: (value?: R | PromiseLike<R>) => void;\n //
TODO(issue/24571): remove '!.\n reject !: (error?: any) => void;\n\n constructor() {\n
this.promise = new Promise((res, rej) => {\n this.resolve = res;\n this.reject = rej;\n
});\n }
}\n}\n\n\nexport interface LazyModuleRef {\n injector?: Injector;\n promise?: Promise<Injector>;\n}\n\n\nexport const enum UpgradeAppType {\n // App NOT using
`@angular/upgrade`. (This should never happen in an `ngUpgrade` app.)\n None,\n\n // App using the deprecated
`@angular/upgrade` APIs (a.k.a. dynamic `ngUpgrade`).\n Dynamic,\n\n // App using
`@angular/upgrade/static` with `UpgradeModule`.\n Static,\n\n // App using
`@angular/upgrade/static` with `downgradeModule()` (a.k.a. `ngUpgrade-lite`).\n Lite,\n}\n\n\n/**
 * @return Whether the passed-in component implements the subset of the\n
 * `ControlValueAccessor` interface needed for AngularJS `ng-model`\n
 * compatibility.\n
 */\nfunction supportsNgModel(component: any) {\n return typeof component.writeValue === 'function' &&\n
typeof component.registerOnChange === 'function';\n}\n\n\n/**
 * Glue the AngularJS `NgModelController` (if it exists) to the component\n
 * (if it implements the needed subset of the `ControlValueAccessor` interface).\n
 */\nexport function hookupNgModel(ngModel: INgModelController, component: any) {\n if (ngModel &&
supportsNgModel(component)) {\n ngModel.$render = () => { component.writeValue(ngModel.$viewValue);
};\n component.registerOnChange(ngModel.$setViewValue.bind(ngModel));\n if (typeof
component.registerOnTouched === 'function') {\n component.registerOnTouched(ngModel.$setTouched.bind(ngModel));\n
}\n }\n}\n\n\n/**
 * Test two values for strict equality, accounting for the fact that `NaN !== NaN`.\n
 */\nexport function strictEquals(val1: any, val2: any): boolean {\n return val1 === val2 ||
(val1 !== val1 && val2 !== val2);\n}\n}\n\n\n"/**
 * @license\n
 * Copyright Google Inc. All Rights Reserved.\n
 * Use of this source code is governed by an MIT-style license that can be\n
 * found in the LICENSE file at https://angular.io/license\n
 */\n\nimport { ApplicationRef,
```

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ChangeDetectorRef, ComponentFactory, ComponentRef, EventEmitter, Injector, OnChanges, SimpleChange,
SimpleChanges, StaticProvider, Testability, TestabilityRegistry, Type} from '@angular/core';\n\nimport
{IAttributes, IAugmentedJQuery, ICompileService, IInjectorService, INgModelController, IParseService, IScope}
from './angular1';\n\nimport {PropertyBinding} from './component_info';\n\nimport {$SCOPE} from
'./constants';\n\nimport {getTypeName, hookupNgModel,
strictEquals} from './util';\n\nconst INITIAL_VALUE = {\n  __UNINITIALIZED__: true\n};\n\nexport class
DowngradeComponentAdapter {\n  private implementsOnChanges = false;\n  private inputChangeCount: number =
0;\n  private inputChanges: SimpleChanges = {};\n  private componentScope: IScope;\n  // TODO(issue/24571):
remove '!\n  private componentRef!: ComponentRef<any>;\n  private component: any;\n  // TODO(issue/24571):
remove '!\n  private changeDetector!: ChangeDetectorRef;\n  // TODO(issue/24571): remove '!\n  private
viewChangeDetector!: ChangeDetectorRef;\n\n  constructor(\n    private element: IAugmentedJQuery, private
attrs: IAttributes, private scope: IScope,\n    private ngModel: INgModelController, private parentInjector:
Injector,\n    private $injector: IInjectorService, private $compile: ICompileService,\n    private $parse:
IParseService, private componentFactory: ComponentFactory<any>,\n    private wrapCallback: <T>(cb: () => T)
=> () => T)
  {\n    this.componentScope = scope.$new();\n  }\n\n  compileContents(): Node[][] {\n    const
compiledProjectableNodes: Node[][] = [];\n    const projectableNodes: Node[][] = this.groupProjectableNodes();\n
const linkFns = projectableNodes.map(nodes => this.$compile(nodes));\n    this.element.empty !();\n\n
linkFns.forEach(linkFn => {\n    linkFn(this.scope, (clone: Node[]) => {\n
compiledProjectableNodes.push(clone);\n    this.element.append !(clone);\n    });\n  });\n\n  return
compiledProjectableNodes;\n  }\n\n  createComponent(projectableNodes: Node[][]): {\n    const providers:
StaticProvider[] = [{provide: $SCOPE, useValue: this.componentScope}];\n    const childInjector =
Injector.create(\n    {providers: providers, parent: this.parentInjector, name:
'DowngradeComponentAdapter'});\n\n    this.componentRef =\n    this.componentFactory.create(childInjector,
projectableNodes, this.element[0]);\n    this.viewChangeDetector =
this.componentRef.injector.get(ChangeDetectorRef);\n
this.changeDetector = this.componentRef.changeDetectorRef;\n    this.component =
this.componentRef.instance;\n\n    // testability hook is commonly added during component bootstrap in\n //
packages/core/src/application_ref.bootstrap()\n // in downgraded application, component creation will take place
here as well as adding the\n // testability hook.\n    const testability = this.componentRef.injector.get(Testability,
null);\n    if (testability) {\n    this.componentRef.injector.get(TestabilityRegistry)\n
.registerApplication(this.componentRef.location.nativeElement, testability);\n    }\n\n    hookupNgModel(this.ngModel, this.component);\n  }\n\n  setupInputs(attachView: boolean,
propagateDigest = true): void {\n    const attrs = this.attrs;\n    const inputs = this.componentFactory.inputs || [];\n
for (let i = 0; i < inputs.length; i++) {\n    const input = new PropertyBinding(inputs[i].propName,
inputs[i].templateName);\n
let expr: string|null = null;\n    if (attrs.hasOwnProperty(input.attr)) {\n    const observeFn = (prop => {\n
let prevValue = INITIAL_VALUE;\n    return (currValue: any) => {\n    // Initially, both `$observe()`
and `$watch()` will call this function.\n    if (!strictEquals(prevValue, currValue)) {\n    if (prevValue
=== INITIAL_VALUE) {\n    prevValue = currValue;\n    }\n\n    this.updateInput(prop,
prevValue, currValue);\n    prevValue = currValue;\n    }\n    });\n    })(input.prop);\n
attrs.$observe(input.attr, observeFn);\n\n    // Use `$watch()` (in addition to `$observe()`) in order to initialize the
input in time\n // for `ngOnChanges()`. This is necessary if we are already in a `$digest`, which means that\n
// `ngOnChanges()` (which is called by a watcher) will run before the `$observe()` callback.\n    let unwatch:
Function|null
= this.componentScope.$watch(() => {\n    unwatch !();\n    unwatch = null;\n
observeFn(attrs[input.attr]);\n    });\n\n    } else if (attrs.hasOwnProperty(input.bindAttr)) {\n    expr =
attrs[input.bindAttr];\n    } else if (attrs.hasOwnProperty(input.bracketAttr)) {\n    expr =

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attrs[input.bracketAttr];\n    } else if (attrs.hasOwnProperty(input.bindonAttr)) {\n        expr =
attrs[input.bindonAttr];\n    } else if (attrs.hasOwnProperty(input.bracketParenAttr)) {\n        expr =
attrs[input.bracketParenAttr];\n    }\n    if (expr != null) {\n        const watchFn =\n            (prop => (currValue:
any, prevValue: any) =>\n                this.updateInput(prop, prevValue, currValue))(input.prop);\n        this.componentScope.$watch(expr, watchFn);\n    }\n    // Invoke `ngOnChanges()` and Change Detection
(when necessary)\n    const detectChanges = () => this.changeDetector.detectChanges();\n    const prototype =
this.componentFactory.componentType.prototype;\n    this.implementsOnChanges = !!(prototype && (<OnChanges>prototype).ngOnChanges);\n    this.componentScope.$watch(() => this.inputChangeCount, this.wrapCallback(() => {\n        // Invoke
`ngOnChanges()`\n        if (this.implementsOnChanges) {\n            const inputChanges = this.inputChanges;\n            this.inputChanges = {};\n            (<OnChanges>this.component).ngOnChanges(inputChanges !);\n        }\n        this.viewChangeDetector.markForCheck();\n        // If opted out of propagating digests, invoke change detection
when inputs change.\n        if (!propagateDigest) {\n            detectChanges();\n        }\n    }));\n    // If not opted out of
propagating digests, invoke change detection on every digest\n    if (propagateDigest) {\n        this.componentScope.$watch(this.wrapCallback(detectChanges));\n    }\n    // If necessary, attach the view so that
it will be dirty-checked.\n    // (Allow time for the initial input values to be set and `ngOnChanges()`
to be called.)\n    if (manuallyAttachView || !propagateDigest) {\n        let unwatch: Function|null =
this.componentScope.$watch(() => {\n            unwatch !();\n            unwatch = null;\n        },\n        this.parentInjector.get<ApplicationRef>(ApplicationRef);\n        appRef.attachView(this.componentRef.hostView);\n    });\n    }\n    }\n    }\n    setupOutputs() {\n        const attrs =
this.attrs;\n        const outputs = this.componentFactory.outputs || [];\n        for (let j = 0; j < outputs.length; j++) {\n            const output = new PropertyBinding(outputs[j].propName, outputs[j].templateName);\n            const bindonAttr =
output.bindonAttr.substring(0, output.bindonAttr.length - 6);\n            const bracketParenAttr =\n                `[$${output.bracketParenAttr.substring(2, output.bracketParenAttr.length - 8)}]`;
\n            // order below is important -
first update bindings then evaluate expressions\n            if (attrs.hasOwnProperty(bindonAttr)) {\n                this.subscribeToOutput(output, attrs[bindonAttr],
true);\n            }\n            if (attrs.hasOwnProperty(bracketParenAttr)) {\n                this.subscribeToOutput(output,
attrs[bracketParenAttr], true);\n            }\n            if (attrs.hasOwnProperty(output.onAttr)) {\n                this.subscribeToOutput(output, attrs[output.onAttr]);\n            }\n            if (attrs.hasOwnProperty(output.parenAttr)) {\n                this.subscribeToOutput(output, attrs[output.parenAttr]);\n            }\n        }\n    }\n    private subscribeToOutput(output:
PropertyBinding, expr: string, isAssignment: boolean = false) {\n        const getter = this.$parse(expr);\n        const setter
= getter.assign;\n        if (isAssignment && !setter) {\n            throw new Error(`Expression '${expr}' is not
assignable!`);\n        }\n        const emitter = this.component[output.prop] as EventEmitter<any>;\n        if (emitter) {\n            emitter.subscribe({\n                next: isAssignment ? (v: any) => setter !(this.scope, v) :\n                    (v: any) =>
getter(this.scope, {'$event': v})\n            });\n        } else {\n            throw
new Error(\n                `Missing emitter '${output.prop}' on component
'${getTypeName(this.componentFactory.componentType)}'`);\n        }\n    }\n    registerCleanup() {\n        const
testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);\n        const destroyComponentRef =
this.wrapCallback(() => this.componentRef.destroy());\n        let destroyed = false;\n        this.element.on !('$destroy', ()
=> this.componentScope.$destroy());\n        this.componentScope.$on('$destroy', () => {\n            if (!destroyed) {\n                destroyed = true;\n                testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);\n                destroyComponentRef();\n            }\n        });\n    }\n    getInjector(): Injector { return this.componentRef.injector; }\n    private updateInput(prop: string, prevValue: any, currValue: any) {\n        if (this.implementsOnChanges) {\n            this.inputChanges[prop] = new SimpleChange(prevValue, currValue, prevValue === currValue);\n        }\n        this.inputChangeCount++;\n        this.component[prop] = currValue;\n    }\n    groupProjectableNodes() {\n        let ngContentSelectors =
this.componentFactory.ngContentSelectors;\n        return groupNodesBySelector(ngContentSelectors,
this.element.contents !());\n    }\n    /**\n     * Group a set of DOM nodes into `ngContent` groups, based on the given

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content selectors.\n *^/nextport function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]):
Node[][] {\n  const projectableNodes: Node[][] = [];\n  let wildcardNgContentIndex: number;\n\n  for (let i = 0, ii =
ngContentSelectors.length; i < ii; ++i) {\n    projectableNodes[i] = [];\n  }\n\n  for (let j = 0, jj = nodes.length; j < jj;
++j) {\n    const node = nodes[j];\n    const ngContentIndex = findMatchingNgContentIndex(node,
ngContentSelectors);\n    if (ngContentIndex != null) {\n      projectableNodes[ngContentIndex].push(node);\n    }\n  }\n\n  return projectableNodes;\n}\n\nfunction findMatchingNgContentIndex(element: any, ngContentSelectors:
string[]):
number|null {\n  const ngContentIndices: number[] = [];\n  let wildcardNgContentIndex: number = -1;\n  for (let i =
0; i < ngContentSelectors.length; i++) {\n    const selector = ngContentSelectors[i];\n    if (selector === '*') {\n
wildcardNgContentIndex = i;\n    } else {\n      if (matchesSelector(element, selector)) {\n
ngContentIndices.push(i);\n      }\n    }\n  }\n  ngContentIndices.sort();\n\n  if (wildcardNgContentIndex !== -1) {\n
ngContentIndices.push(wildcardNgContentIndex);\n  }\n  return ngContentIndices.length ? ngContentIndices[0] :
null;\n}\n\nlet _matches: (this: any, selector: string) => boolean;\n\nfunction matchesSelector(el: any, selector:
string): boolean {\n  if (!_matches) {\n    const elProto = <any>Element.prototype;\n    _matches = elProto.matches ||
elProto.matchesSelector || elProto.mozMatchesSelector ||\n      elProto.msMatchesSelector ||\n      elProto.oMatchesSelector || elProto.webkitMatchesSelector;\n  }\n  return el.nodeType ===
Node.ELEMENT_NODE
? _matches.call(el, selector) : false;\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 {isFunction} from './util';\n\nexport interface Thenable<T> { then(callback:
(value: T) => any): any; }\n\nexport function isThenable<T>(obj: unknown): obj is Thenable<T> {\n  return !!obj
&& isFunction((obj as any).then);\n}\n\n/**\n * Synchronous, promise-like object.\n */\n\nexport class
SyncPromise<T> {\n  protected value: T|undefined;\n  private resolved = false;\n  private callbacks: ((value: T) =>
unknown)[] = [];\n\n  static all<T>(valuesOrPromises: (T|Thenable<T>][]): SyncPromise<T>[] {\n    const
aggrPromise = new SyncPromise<T>();\n\n    let resolvedCount = 0;\n    const results: T[] = [];\n    const resolve =
(idx: number, value: T) => {\n      results[idx] = value;\n      if (++resolvedCount === valuesOrPromises.length)
aggrPromise.resolve(results);\n    };\n\n    valuesOrPromises.forEach((p, idx) => {\n      if (isThenable(p)) {\n
p.then(v => resolve(idx, v));\n      } else {\n        resolve(idx, p);\n      }\n    });\n\n    return aggrPromise;\n  }\n\n  resolve(value: T): void {\n    // Do nothing, if already resolved.\n    if (this.resolved) return;\n\n    this.value =
value;\n    this.resolved = true;\n\n    // Run the queued callbacks.\n    this.callbacks.forEach(callback =>
callback(value));\n    this.callbacks.length = 0;\n  }\n\n  then(callback: (value: T) => unknown): void {\n    if
(this.resolved) {\n      callback(this.value !);\n    } else {\n      this.callbacks.push(callback);\n    }\n  }\n}\n\n"/**\n *
@license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-
style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport
{ComponentFactory, ComponentFactoryResolver, Injector,
NgZone, Type} from '@angular/core';\n\nimport {IAnnotatedFunction, IAttributes, IAugmentedJQuery,
ICompileService, IDirective, IInjectorService, INgModelController, IParseService, IScope} from
'./angular1';\n\nimport {$COMPILE, $INJECTOR, $PARSE, INJECTOR_KEY, LAZY_MODULE_REF,
REQUIRE_INJECTOR, REQUIRE_NG_MODEL} from './constants';\n\nimport {DowngradeComponentAdapter}
from './downgrade_component_adapter';\n\nimport {SyncPromise, Thenable} from './promise_util';\n\nimport
{LazyModuleRef, UpgradeAppType, controllerKey, getDowngradedModuleCount, getTypeName,
getUpgradeAppType, validateInjectionKey} from './util';\n\n/**\n * @description\n *\n * A helper function that
allows an Angular component to be used from AngularJS.\n *\n * *Part of the
[upgrade/static](api?query=upgrade%2Fstatic)\n *\n * library for hybrid upgrade apps that support AOT compilation*\n
*\n * This helper function returns a factory function to be used for registering\n *\n * an AngularJS wrapper directive
for \"downgrading\"
an Angular component.\n *\n * @usageNotes\n *\n * ### Examples\n *\n * Let's assume that you have an Angular
component called `ng2Heroes` that needs\n *\n * to be made available in AngularJS templates.\n *\n * {\n * @example

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upgrade/static/ts/full/module.ts region="ng2-heroes"})\n \* We must create an AngularJS [directive](https://docs.angularjs.org/guide/directive)\n \* that will make this Angular component available inside AngularJS templates.\n \* The `downgradeComponent()` function returns a factory function that we\n \* can use to define the AngularJS directive that wraps the `downgraded` component.\n \* { @example upgrade/static/ts/full/module.ts region="ng2-heroes-wrapper"})\n \* For more details and examples on downgrading Angular components to AngularJS components please\n \* visit the [Upgrade guide](guide/upgrade#using-angular-components-from-angularjs-code).\n \* @param info contains information about the Component that is being downgraded:\n \* - `component: Type<any>`:

The type of the Component that will be downgraded\n \* - `downgradedModule?: string`: The name of the downgraded module (if any) that the component\n \* belongs to, as returned by a call to `downgradeModule()`. It is the module, whose\n \* corresponding Angular module will be bootstrapped, when the component needs to be instantiated.\n \* <br />\n \* (This option is only necessary when using `downgradeModule()` to downgrade more than one\n \* Angular module.)\n \* - `propagateDigest?: boolean`: Whether to perform { @link ChangeDetectorRef#detectChanges\n \* change detection } on the component on every\n \* [\$digest](https://docs.angularjs.org/api/ng/type/\$rootScope.Scope#\$digest). If set to `false`,\n \* change detection will still be performed when any of the component's inputs changes.\n \* (Default: true)\n \* @returns a factory function that can be used to register the component in an\n \* AngularJS module.\n \* @publicApi\n \* ^\n \* export function downgradeComponent(info:

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{\n  component: Type<any>;\n  downgradedModule?: string;\n  propagateDigest?: boolean;\n  /** @deprecated since v4. This parameter is no longer used */\n  inputs?: string[];\n  /** @deprecated since v4. This parameter is no longer used */\n  outputs?: string[];\n  /** @deprecated since v4. This parameter is no longer used */\n  selectors?: string[];\n});\n\nany /* angular.IInjectable */ {\n  const directiveFactory: IAnnotatedFunction = function(\n    $compile: ICompileService, $injector: IInjectorService, $parse: IParseService): IDirective {\n    // When using `downgradeModule()`, we need to handle certain things specially. For example:\n    // - We always need to attach the component view to the `ApplicationRef` for it to be\n    //   dirty-checked.\n    // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the\n    //   Angular zone.\n    // NOTE: This is not needed, when using `UpgradeModule`, because `$digest()` will be run\n    //   inside the Angular zone (except if explicitly escaped, in which case we shouldn't\n    //   force it back in).\n    const isNgUpgradeLite = getUpgradeAppType($injector) === UpgradeAppType.Lite;\n    const wrapCallback: <T>(cb: () => T) => typeOf cb => !isNgUpgradeLite ? cb => cb : cb => () => NgZone.isInAngularZone() ? cb() :\n      ngZone.run(cb);\n    let ngZone: NgZone;\n    // When downgrading multiple modules, special handling is needed wrt injectors.\n    const hasMultipleDowngradedModules = !isNgUpgradeLite &&\n      (getDowngradedModuleCount($injector) > 1);\n    return {\n      restrict: 'E',\n      terminal: true,\n      require: [REQUIRE_INJECTOR, REQUIRE_NG_MODEL],\n      link: (scope: IScope, element: IAugmentedJQuery, attrs: IAttributes, required: any[]) => {\n        // We might have to compile the contents asynchronously, because this\n        // might have been triggered by `UpgradeNg1ComponentAdapterBuilder`, before the Angular templates\n        // have been compiled.\n
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const ngModel: INgModelController = required[1];\nconst parentInjector: Injector|Thenable<Injector>|undefined = required[0];\nlet moduleInjector: Injector|Thenable<Injector>|undefined = undefined;\nlet ranAsync = false;\nif (!parentInjector || hasMultipleDowngradedModules) {\n  const downgradedModule = info.downgradedModule || '';\n  const lazyModuleRefKey = `${LAZY_MODULE_REF}${downgradedModule}`;\n  const attemptedAction = `instantiating component '${getTypeName(info.component)}';\n  validateInjectionKey($injector, downgradedModule, lazyModuleRefKey, attemptedAction);\n  const lazyModuleRef = $injector.get(lazyModuleRefKey) as LazyModuleRef;\n  moduleInjector = lazyModuleRef.injector || lazyModuleRef.promise as Promise<Injector>;\n  // Notes:\n  // There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be\n  // the
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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    //\n    // There are basically three cases:\n    // - If there is no parent
component (thus no `parentInjector`), we bootstrap the degraded\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 are sure that it\n    // belongs to the same `NgModule` as this degraded component
(e.g. because there is only\n    // one degraded
module, we use that `parentInjector` as both `finalModuleInjector` and\n    // `finalParentInjector`.\n    // - If
there is a parent component, but it may belong to a different `NgModule`, then we\n    // use the `parentInjector`
as `finalParentInjector` and this degraded component's\n    // declaring `NgModule`'s injector as
`finalModuleInjector`.\n    // Note 1: If the `NgModule` is already bootstrapped, we just get its injector (we
don't\n    // bootstrap again).\n    // Note 2: It is possible that (while there are multiple degraded
modules) this\n    // degraded component and its parent component both belong to the same
NgModule.\n    // In that case, we could have used the `parentInjector` as both\n    //
`finalModuleInjector` and `finalParentInjector`, but (for simplicity) we are\n    // treating this case as if they
belong to different `NgModule`s. That doesn't\n
// really affect anything, since `parentInjector` has `moduleInjector` as ancestor\n    // and trying to
resolve `ComponentFactoryResolver` from either one will return\n    // the same instance.\n    // If there
is a parent component, use its injector as parent injector.\n    // If this is a "top-level" Angular component, use the
module injector.\n    const finalParentInjector = parentInjector || moduleInjector !;\n    // If this is a "top-
level" Angular component or the parent component may belong to a\n    // different `NgModule`, use the module
injector for module-specific dependencies.\n    // If there is a parent component that belongs to the same
`NgModule`, use its injector.\n    const finalModuleInjector = moduleInjector || parentInjector !;\n    const
doDowngrade = (injector: Injector, moduleInjector: Injector) => {\n    // Retrieve `ComponentFactoryResolver`
from the injector tied to the `NgModule`
this\n    // component belongs to.\n    const componentFactoryResolver: ComponentFactoryResolver =\n    moduleInjector.get(ComponentFactoryResolver);\n    const componentFactory: ComponentFactory<any> =\n    componentFactoryResolver.resolveComponentFactory(info.component) !;\n    if (!componentFactory)
{\n    throw new Error(`Expecting ComponentFactory for: ${getTypeName(info.component)}`);\n    }\n    const injectorPromise = new ParentInjectorPromise(element);\n    const facade = new
DowngradeComponentAdapter(\n    element, attrs, scope, ngModel, injector, $injector, $compile, $parse,\n    componentFactory, wrapCallback);\n    const projectableNodes = facade.compileContents();\n    facade.createComponent(projectableNodes);\n    facade.setupInputs(isNgUpgradeLite, info.propagateDigest);\n    facade.setupOutputs();\n    facade.registerCleanup();\n    injectorPromise.resolve(facade.getInjector());\n    if (ranAsync) {\n    // If this is run async, it is
possible that it is not run inside a\n    // digest and initial input values will not be detected.\n    scope.$evalAsync(() => {});\n    }\n    const downgradeFn =\n    !isNgUpgradeLite ?
doDowngrade : (pInjector: Injector, mInjector: Injector) => {\n    if (!ngZone) {\n    ngZone =
pInjector.get(NgZone);\n    }\n    wrapCallback(() => doDowngrade(pInjector, mInjector));\n
};\n    // NOTE:\n    // Not using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`),
because\n    // Closure Compiler (or some related tool) complains:\n    // `TypeError:
...$src$downgrade_component_ParentInjectorPromise.all is not a function`\n
SyncPromise.all([finalParentInjector, finalModuleInjector]).then(([pInjector, mInjector])
=> downgradeFn(pInjector, mInjector));\n    ranAsync = true;\n    }\n    };\n    // bracket-notation
because of closure - see #14441\n    directiveFactory['$inject'] = [$COMPILE, $INJECTOR, $PARSE];\n    return
directiveFactory;\n    }\n    /**\n    * Synchronous promise-like object to wrap parent injectors,\n    * to preserve the

```

```

synchronous nature of AngularJS's `$compile`.
}

class ParentInjectorPromise extends SyncPromise<Injector>
{
  private injectorKey: string = controllerKey(INJECTOR_KEY);
  constructor(private element:
  IAugmentedJQuery) {
    super();
    // Store the promise on the element.
    element.data!(this.injectorKey,
    this);
  }
  resolve(injector: Injector): void {
    // Store the real injector on the element.
    this.element.data!(this.injectorKey, injector);
    // Release the element to prevent memory leaks.
    this.element = null!;
  }
  // Resolve the promise.
  super.resolve(injector);
}
}

/**
 * @license
 * Copyright
 * Google Inc. All Rights Reserved.
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */
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.
 * @usageNotes
 * ### Examples
 * First ensure that the service to be downgraded is
 * provided in an `NgModule`
 * that will be part of the upgrade application. For example, let's assume we have
 * defined `HeroesService`
 *
 * { @example upgrade/static/ts/full/module.ts region="ng2-heroes-service" }
 * and that we have included
 * this in our upgrade app `NgModule`
 *
 * { @example upgrade/static/ts/full/module.ts region="ng2-module" }
 *
 * Now we can register the `downgradeInjectable` factory function for the service
 * on an AngularJS module.
 *
 * { @example upgrade/static/ts/full/module.ts region="downgrade-ng2-heroes-service" }
 *
 * Inside an
 * AngularJS component's controller we can get hold of the
 * downgraded service via the name we gave when
 * downgrading.
 *
 * { @example upgrade/static/ts/full/module.ts region="example-app" }
 *
 * <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
 * 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.
 * </div>
 * @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/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;
}

/**
 * @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 {Version} from '@angular/core';
import {publicApi} from '@module';
import {description} from '@description';
import {Entry point for all public APIs of the common package.}
import {Version} from '@angular/core';
import {publicApi} from '@publicApi';
import {next} from '@next';
import {const VERSION = new
Version('9.0.7');}
import {license} from '@license';
import {Copyright Google Inc. All Rights Reserved.}
import {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 {IInjectorService} from './../src/common/src/angular1';
// We have to do a little dance to get the ng1

```



```

injector into the module injector.\n// We store the ng1 injector so that the provider in the module injector can access
it\n// Then we \"get\" the ng1 injector from the module injector, which triggers the provider to read\n// the stored
injector and release the reference to it.\nlet tempInjectorRef: IInjectorService|null = null;\nexport function
setTempInjectorRef(injector: IInjectorService) {\n  tempInjectorRef = injector;\n}\nexport function
injectorFactory() {\n  if (!tempInjectorRef) {\n    throw new Error('Trying to get the AngularJS
injector before it being set.);\n  }\n\n  const injector: IInjectorService = tempInjectorRef;\n  tempInjectorRef = null;\n  // clear the value to prevent memory leaks\n  return injector;\n}\n\nexport function rootScopeFactory(i:
IInjectorService) {\n  return i.get('$rootScope');\n}\n\nexport function compileFactory(i: IInjectorService) {\n
return i.get('$compile');\n}\n\nexport function parseFactory(i: IInjectorService) {\n  return
i.get('$parse');\n}\n\nexport const angularProviders = [\n  // We must use exported named functions for the ng2
factories to keep the compiler happy:\n  // > Metadata collected contains an error that will be reported at runtime:\n  // > Function calls are not supported.\n  // > Consider replacing the function or lambda with a reference to an
exported function\n  {provide: '$injector', useFactory: injectorFactory, deps: []},\n  {provide: '$rootScope',
useFactory: rootScopeFactory, deps: ['$injector']},\n  {provide: '$compile', useFactory: compileFactory,
deps: ['$injector']},\n  {provide: '$parse', useFactory: parseFactory, deps: ['$injector']}\n];\n\n\"/**\n * @license\n *
Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that
can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport {Injector,
ÉµNOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR as
NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR} from '@angular/core';\n\nexport class
NgAdapterInjector implements Injector {\n  constructor(private modInjector: Injector) {} \n\n  // When Angular
locate a service in the component injector tree, the not found value is set to\n  //
`NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR`. In such a case we should not walk up to the module\n
// injector.\n  // AngularJS only supports a single tree and should always check the module injector.\n  get(token:
any, notFoundValue?: any): any {\n    if (notFoundValue ===
NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR) {\n      return notFoundValue;\n    }\n\n    return this.modInjector.get(token, notFoundValue);\n  }\n\n  \"/**\n * @license\n * Copyright Google Inc. All
Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n */\n\nimport {Injector, NgModuleFactory, NgModuleRef,
StaticProvider} from '@angular/core';\nimport {platformBrowser} from '@angular/platform-browser';\nimport
{IInjectorService, IProvideService, module_ as angularModule} from '../src/common/src/angular1';\nimport
{$INJECTOR, $PROVIDE, DOWNGRADED_MODULE_COUNT_KEY, INJECTOR_KEY,
LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from
'../src/common/src/constants';\nimport {LazyModuleRef, UpgradeAppType, getDowngradedModuleCount,
isFunction} from '../src/common/src/util';\nimport {angularProviders, setTempInjectorRef} from
'./angular1_providers';\nimport {NgAdapterInjector} from './util';\n\nlet moduleId = 0;\n\n/**\n * @description\n
*\n * A
helper function for creating an AngularJS module that can bootstrap an Angular module\n * \"on-demand\"
(possibly lazily) when a {@link downgradeComponent} downgraded component} needs to be\n * instantiated.\n *
**Part of the [upgrade/static](api?query=upgrade/static) library for hybrid upgrade apps that\n * support AOT
compilation.*\n * It allows loading/bootstrapping the Angular part of a hybrid application lazily and not having
to\n * pay the cost up-front. For example, you can have an AngularJS application that uses Angular for\n * specific
routes and only instantiate the Angular modules if/when the user visits one of these\n * routes.\n * The Angular
module will be bootstrapped once (when requested for the first time) and the same\n * reference will be used from
that point onwards.\n * `downgradeModule()` requires either an `NgModuleFactory` or a function:\n * -
`NgModuleFactory`: If you pass an `NgModuleFactory`, it will be used to instantiate a module\n * using
`platformBrowser`'s
{@link PlatformRef#bootstrapModuleFactory bootstrapModuleFactory()}. \n * - `Function`: If you pass a function,
it is expected to return a promise resolving to an\n * `NgModuleRef`. The function is called with an array of extra

```

{@link StaticProvider Providers} that are expected to be available from the returned `NgModuleRef`'s `Injector`. `downgradeModule()` returns the name of the created AngularJS wrapper module. You can use it to declare a dependency in your main AngularJS module. `{ @example upgrade/static/ts/lite/module.ts region="basic-how-to" }` For more details on how to use `downgradeModule()` see [\[Upgrading for Performance\]\(guide/upgrade-performance\)](#). `@usageNotes` Apart from `UpgradeModule`, you can use the rest of the `upgrade/static` helpers as usual to build a hybrid application. Note that the Angular pieces (e.g. downgraded services) will not be available until the downgraded module has been bootstrapped, i.e. by instantiating a downgraded component. `<div class="alert is-important">` You cannot use `downgradeModule()` and `UpgradeModule` in the same hybrid application. `<br />` Use one or the other. `</div>`

### Differences with `UpgradeModule`

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

1. Unlike `UpgradeModule`, `downgradeModule()` does not bootstrap the main AngularJS module inside the `{ @link NgZone Angular zone }`.
2. Unlike `UpgradeModule`, `downgradeModule()` does not automatically run `a digest()` ([https://docs.angularjs.org/api/ng/type/\\$rootScope.Scope#\\$digest](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.

`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 [\[Upgrading for Performance\]\(guide/upgrade-performance\)](#).

`<div class="alert is-helpful">` You can manually trigger a change detection run in AngularJS using `[scope.$apply(...)]` ([https://docs.angularjs.org/api/ng/type/\\$rootScope.Scope#\\$apply](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$apply)) or `[$rootScope.$digest()]` ([https://docs.angularjs.org/api/ng/type/\\$rootScope.Scope#\\$digest](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest)).

You can manually trigger a change detection run in Angular using `{ @link NgZone#run ngZone.run(...) }`.

### 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 `{ @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:

```
{ @example upgrade/static/ts/lite-multi-shared/module.ts region="shared-root-module" }
@publicApi
export function downgradeModule<T>(
  moduleFactoryOrBootstrapFn: NgModuleFactory<T> |
    ((extraProviders: StaticProvider[]) =>
      Promise<NgModuleRef<T>>)): string {
  const lazyModuleName =
    `${UPGRADE_MODULE_NAME}.lazy${++moduleId}`;
  const lazyModuleRefKey =
    `${LAZY_MODULE_REF}${lazyModuleName}`;
  const lazyInjectorKey =
    `${INJECTOR_KEY}${lazyModuleName}`;
}
```

```

const bootstrapFn = isFunction(moduleFactoryOrBootstrapFn) ?\n  moduleFactoryOrBootstrapFn :\n  (extraProviders: StaticProvider[]) =>\n  platformBrowser(extraProviders).bootstrapModuleFactory(moduleFactoryOrBootstrapFn);\n\n let injector:\n  Injector;\n\n // Create an ng1 module to bootstrap.\n  angularModule(lazyModuleName, [])\n  .constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Lite)\n  .factory(INJECTOR_KEY,\n  [lazyInjectorKey, identity])\n  .factory(\n    lazyInjectorKey,\n    () => {\n      if (!injector) {\n        throw new Error(\n          'Trying to get the Angular injector before bootstrapping the corresponding '\n          'Angular module.);\n        }\n      return injector;\n    })\n  .factory(LAZY_MODULE_REF,\n  [lazyModuleRefKey, identity])\n  .factory(\n    lazyModuleRefKey,\n    [\n      $INJECTOR,\n      ($injector: IInjectorService) => {\n        setTempInjectorRef($injector);\n\n        const result: LazyModuleRef = {\n          promise: bootstrapFn(angular1Providers).then(ref => {\n            injector = result.injector = new NgAdapterInjector(ref.injector);\n            injector.get($INJECTOR);\n            return injector;\n          })\n        };\n        return result;\n      })\n    ])\n  .config([\n    $INJECTOR, $PROVIDE,\n    ($injector: IInjectorService, $provide: IProvideService) => {\n      $provide.constant(DOWNGRADED_MODULE_COUNT_KEY, getDowngradedModuleCount($injector) + 1);\n    }\n  ]);\n\n return lazyModuleName;\n}\n\nfunction identity<T = any>(x: T): T {\n  return x;\n}\n\n"/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-\n * style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport {ElementRef,\n  Injector, SimpleChanges} from\n  '@angular/core';\n\nimport {DirectiveRequireProperty, IAugmentedJQuery, ICloneAttachFunction,\n  ICompileService, IController, IControllerService, IDirective, IHttpBackendService, IInjectorService, ILinkFn,\n  IScope, ITemplateCacheService, SingleOrListOrMap, element as angularElement} from './angular1';\n\nimport {\n  $COMPILE, $CONTROLLER, $HTTP_BACKEND, $INJECTOR, $TEMPLATE_CACHE} from\n  './constants';\n\nimport {controllerKey, directiveNormalize, isFunction} from './util';\n\n\n// Constants\nconst\n  REQUIRE_PREFIX_RE = /^(\\|^\\^)?(\\|)?(\\|^\\^)??;\n\n// Interfaces\nexport interface IBindingDestination {\n  [key: string]: any;\n  $onChanges?: (changes: SimpleChanges) => void;\n}\n\nexport interface IControllerInstance\n  extends IBindingDestination {\n  $doCheck?: () => void;\n  $onDestroy?: () => void;\n  $onInit?: () => void;\n  $postLink?: () => void;\n}\n\n// Classes\nexport class UpgradeHelper {\n  public readonly $injector:\n    IInjectorService;\n  public readonly element: Element;\n  public readonly\n  $element: IAugmentedJQuery;\n  public readonly directive: IDirective;\n  private readonly $compile:\n    ICompileService;\n  private readonly $controller: IControllerService;\n\n  constructor(\n    private injector:\n      Injector, private name: string, elementRef: ElementRef,\n    directive?: IDirective) {\n    this.$injector =\n      injector.get($INJECTOR);\n    this.$compile = this.$injector.get($COMPILE);\n    this.$controller =\n      this.$injector.get($CONTROLLER);\n\n    this.element = elementRef.nativeElement;\n    this.$element =\n      angularElement(this.element);\n    this.directive = directive || UpgradeHelper.getDirective(this.$injector, name);\n  }\n\n  static getDirective($injector: IInjectorService, name: string): IDirective {\n    const directives: IDirective[] =\n      $injector.get(name + 'Directive');\n    if (directives.length > 1) {\n      throw new Error(`Only support single directive\n      definition for: ${name}`);\n    }\n    const directive = directives[0];\n\n    // AngularJS will transform\n    `link: xyz` to `compile: () => xyz`. So we can only tell there was a\n    // user-defined `compile` if there is no `link`.\n    In other cases, we will just ignore `compile`.\n    if (directive.compile && !directive.link) notSupported(name,\n      'compile');\n    if (directive.replace) notSupported(name, 'replace');\n    if (directive.terminal) notSupported(name,\n      'terminal');\n\n    return directive;\n  }\n\n  static getTemplate(\n    $injector: IInjectorService, directive: IDirective,\n    fetchRemoteTemplate = false,\n    $element?: IAugmentedJQuery): string|Promise<string> {\n    if\n      (directive.template !== undefined) {\n      return getOrCall<string>(directive.template, $element);\n    } else if\n      (directive.templateUrl) {\n      const $templateCache = $injector.get($TEMPLATE_CACHE) as\n      ITemplateCacheService;\n      const url = getOrCall<string>(directive.templateUrl, $element);\n      const template =\n      $templateCache.get(url);\n      if (template !== undefined) {\n        return template;\n      }\n    }\n  }\n}

```

```

    } else if (!fetchRemoteTemplate) {\n      throw new Error('loading directive templates asynchronously is not
supported');\n    }\n    return new Promise((resolve, reject) => {\n      const $httpBackend =
$injector.get($HTTP_BACKEND) as IHttpBackendService;\n      $httpBackend('GET', url, null, (status: number,
response: string) => {\n        if (status === 200) {\n          resolve($templateCache.put(url, response));\n        }
else {\n          reject('GET component template from '${url}' returned '${status}: ${response}')\n        }\n      });\n    } else {\n      throw new Error(`Directive '${directive.name}' is not a component, it is missing
template.`);\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    this.$element.data !(controllerKey(this.directive.name !), controller);\n    return
controller;\n  }\n  compileTemplate(template?: string): ILinkFn {\n    if (template === undefined) {\n      template
=\n      UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element) as string;\n    }\n    return
this.compileHtml(template);\n  }\n  onDestroy($scope: IScope, controllerInstance?: any) {\n    if
(controllerInstance && isFunction(controllerInstance.$onDestroy)) {\n      controllerInstance.$onDestroy();\n    }\n    $scope.$destroy();\n    // Clean the jQuery/jqLite data on the component+child elements.\n    // 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#L306-L312\n    // `cleanData` will invoke the AngularJS `$destroy` DOM event\n    //
https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2aab70d86d4d688c82/src/Angular.js#L1911-L1924\n    angularElement.cleanData([this.element]);\n    angularElement.cleanData(this.element.querySelectorAll('*'));\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    if (transclude) {\n      const slots = Object.create(null);\n      if (typeof transclude === 'object') {\n        $template =
[];\n        const slotMap = Object.create(null);\n        const filledSlots = Object.create(null);\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          slotMap[selector] = slotName;\n          slots[slotName] = null;\n          //
`null`: Defined but not yet filled.\n          filledSlots[slotName] = optional; // Consider optional slots as filled.\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            $template.push(node);\n          }\n        });\n        // Check for
required slots that were not filled.\n        Object.keys(filledSlots).forEach(slotName => {\n          if
(!filledSlots[slotName]) {\n            throw new Error(`Required transclusion slot '${slotName}' on directive:
${this.name}`);\n          }\n        });\n        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    // 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(node => {
  if (node.nodeType === Node.TEXT_NODE && !node.nodeValue) {
    node.nodeValue = '\u200C';
  }
});
return attachChildrenFn;
}

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

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

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

private extractChildNodes(): Node[] {
  const childNodes: Node[] = [];
  let childNode: Node|null;
  while
(childNode = this.element.firstChild) {
    this.element.removeChild(childNode);
    childNodes.push(childNode);
  }
  return childNodes;
}

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

private
resolveRequire(require: DirectiveRequireProperty, controllerInstance?: any):
SingleOrListOrMap<IControllerInstance>|null {
  if (!require) {
    return null;
  } else if
(Array.isArray(require)) {
    return require.map(req => this.resolveRequire(req));
  } else if (typeof require
=== 'object') {
    const value: {[key: string]: IControllerInstance} = {};
    Object.keys(require).forEach(key =>
value[key] = this.resolveRequire(require[key])
!);
    return value;
  } else if (typeof require === 'string') {
    const match =
require.match(REQUIRE_PREFIX_RE) !;
    const inheritType = match[1] || match[3];
    const name =
require.substring(match[0].length);
    const isOptional = !!match[2];
    const searchParents = !!inheritType;
    const startOnParent = inheritType === '^';
    const ctrlKey = 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} {
  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, ÉulooseIdentical as looseIdentical} from
'@angular/core';
import {IAttributes, IAugmentedJQuery, IDirective, IDirectivePrePost, IInjectorService,
ILinkFn, IScope, ITranscludeFunction} from './../src/common/src/angular1';
import {$SCOPE} from
'./../src/common/src/constants';
import

```

```

    {IBindingDestination, IControllerInstance, UpgradeHelper} from '../src/common/src/upgrade_helper';\nimport
    {isFunction} from '../src/common/src/util';\n\nconst NOT_SUPPORTED: any = 'NOT_SUPPORTED';\nconst
    INITIAL_VALUE = {\n  __UNINITIALIZED__: true\n};\n\nclass Bindings {\n  twoWayBoundProperties: string[]
    = [];\n  twoWayBoundLastValues: any[] = [];\n\n  expressionBoundProperties: string[] = [];\n\n
    propertyToOutputMap: {[propName: string]: string} = {};\n\n  /**\n   * @description\n   * A helper class that
    allows an AngularJS component to be used from Angular.\n   *\n   * Part of the
    [upgrade/static](api?query=upgrade%2Fstatic)\n   * library for hybrid upgrade apps that support AOT
    compilation.*\n   *\n   * This helper class should be used as a base class for creating Angular directives\n   * that wrap
    AngularJS components that need to be \"upgraded\".\n   *\n   * @usageNotes\n   * ### Examples\n   *\n   * Let's assume
    that you have an AngularJS component called `ng1Hero` that
    needs\n   * to be made available in Angular templates.\n   *\n   * { @example upgrade/static/ts/full/module.ts
    region=\"ng1-hero\" }\n   *\n   * We must create a `Directive` that will make this AngularJS component\n   * available
    inside Angular templates.\n   *\n   * { @example upgrade/static/ts/full/module.ts region=\"ng1-hero-wrapper\" }\n   *\n
    In this example you can see that we must derive from the `UpgradeComponent`\n   * base class but also provide an
    { @link Directive `@Directive` } decorator. This is\n   * because the AOT compiler requires that this information is
    statically available at\n   * compile time.\n   *\n   * Note that we must do the following:\n   * * specify the directive's
    selector (`ng1-hero`)\n   * * specify all inputs and outputs that the AngularJS component expects\n   * * derive from
    `UpgradeComponent`\n   * * call the base class from the constructor, passing\n   * * the AngularJS name of the
    component (`ng1Hero`)\n   * * the `ElementRef` and `Injector` for the component wrapper\n   *\n   * @publicApi\n
    */\nexport class UpgradeComponent implements OnInit, OnChanges, DoCheck, OnDestroy {\n  private helper:
    UpgradeHelper;\n\n  private $injector: IInjectorService;\n\n  private element: Element;\n  private $element:
    IAugmentedJQuery;\n  private $componentScope: IScope;\n\n  private directive: IDirective;\n  private bindings:
    Bindings;\n\n  // TODO(issue/24571): remove '!'\n  private controllerInstance!: IControllerInstance;\n  //
    TODO(issue/24571): remove '!'\n  private bindingDestination!: IBindingDestination;\n\n  // We will be
    instantiating the controller in the `ngOnInit` hook, when the\n  // first `ngOnChanges` will have been already
    triggered. We store the\n  // `SimpleChanges` and `play them back` later.\n  // TODO(issue/24571): remove '!'\n
    private pendingChanges!: SimpleChanges | null;\n\n  // TODO(issue/24571): remove '!'\n  private
    unregisterDoCheckWatcher!: Function;\n\n  /**\n   * Create a new `UpgradeComponent` instance. You should not
    normally need to do this.\n\n   * Instead you should derive a new class from this one and call the super constructor\n   * from the base class.\n
    *\n   * { @example upgrade/static/ts/full/module.ts region=\"ng1-hero-wrapper\" }\n   *\n   * The `name`\n
    parameter should be the name of the AngularJS directive.\n   * * The `elementRef` and `injector` parameters should
    be acquired from Angular by dependency\n   * injection into the base class constructor.\n   *\n   * \n
    constructor(private name: string, private elementRef: ElementRef, private injector: Injector) {\n    this.helper = new
    UpgradeHelper(injector, name, elementRef);\n\n    this.$injector = this.helper.$injector;\n\n    this.element =
    this.helper.element;\n    this.$element = this.helper.$element;\n\n    this.directive = this.helper.directive;\n
    this.bindings = this.initializeBindings(this.directive);\n\n    // We ask for the AngularJS scope from the Angular
    injector, since\n    // we will put the new component scope onto the new injector for each component\n
    const $parentScope = injector.get($SCOPE);\n    // QUESTION 1: Should we create an isolated scope if the scope
    is only true?\n    // QUESTION 2: Should we make the scope accessible through
    `$element.scope()/isolateScope()`?\n    this.$componentScope = $parentScope.$new(!this.directive.scope);\n\n
    this.initializeOutputs();\n  }\n\n  ngOnInit() {\n    // Collect contents, insert and compile template\n    const
    attachChildNodes: ILinkFn|undefined = this.helper.prepareTransclusion();\n    const linkFn =
    this.helper.compileTemplate();\n\n    // Instantiate controller\n    const controllerType = this.directive.controller;\n
    const bindToController = this.directive.bindToController;\n    if (controllerType) {\n      this.controllerInstance =
    this.helper.buildController(controllerType, this.$componentScope);\n    } else if (bindToController) {\n      throw
    new Error(\n      `Upgraded directive '${this.directive.name}' specifies 'bindToController' but no controller.`);\n
  }

```

```

    }\n\n // Set up outputs\n    this.bindingDestination = bindToController ? this.controllerInstance :
this.$componentScope;\n    this.bindOutputs();\n\n // Require other controllers\n    const requiredControllers =\n    this.helper.resolveAndBindRequiredControllers(this.controllerInstance);\n\n // Hook: $onChanges\n    if
(this.pendingChanges) {\n    this.forwardChanges(this.pendingChanges);\n    this.pendingChanges = null;\n
}\n\n // Hook: $onInit\n    if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {\n
this.controllerInstance.$onInit();\n    }\n\n // Hook: $doCheck\n    if (this.controllerInstance &&
isFunction(this.controllerInstance.$doCheck)) {\n    const callDoCheck = () => this.controllerInstance.$doCheck
!();\n    this.unregisterDoCheckWatcher = this.$componentScope.$parent.$watch(callDoCheck);\n
callDoCheck();\n    }\n\n // Linking\n    const link = this.directive.link;\n    const preLink = typeof link ==
'object' && link.pre;\n    const postLink = typeof link == 'object' ? link.post : link;\n    const attrs: IAttributes =
NOT_SUPPORTED;\n    const transcludeFn: ITranscludeFunction = NOT_SUPPORTED;\n    if (preLink) {\n
preLink(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn);\n    }\n\n
linkFn(this.$componentScope, null !, {parentBoundTranscludeFn: attachChildNodes});\n\n    if (postLink) {\n
postLink(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn);\n    }\n\n // Hook:
$postLink\n    if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) {\n
this.controllerInstance.$postLink();\n    }\n\n ngOnChanges(changes: SimpleChanges) {\n    if
(!this.bindingDestination) {\n    this.pendingChanges = changes;\n    } else {\n    this.forwardChanges(changes);\n
}\n    }\n\n ngDoCheck() {\n    const twoWayBoundProperties = this.bindings.twoWayBoundProperties;\n    const
twoWayBoundLastValues
= this.bindings.twoWayBoundLastValues;\n    const propertyToOutputMap =
this.bindings.propertyToOutputMap;\n\n    twoWayBoundProperties.forEach((propName, idx) => {\n    const
newValue = this.bindingDestination[propName];\n    const oldValue = twoWayBoundLastValues[idx];\n    if
(!looseIdentical(newValue, oldValue)) {\n    const outputName = propertyToOutputMap[propName];\n    const
eventEmitter: EventEmitter<any> = (this as any)[outputName];\n    eventEmitter.emit(newValue);\n
twoWayBoundLastValues[idx] = newValue;\n    }\n    });\n    }\n\n ngOnDestroy() {\n    if
(isFunction(this.unregisterDoCheckWatcher)) {\n    this.unregisterDoCheckWatcher();\n    }\n\n
this.helper.onDestroy(this.$componentScope, this.controllerInstance);\n    }\n\n private initializeBindings(directive:
IDirective) {\n    const btcIsObject = typeof directive.bindToController === 'object';\n    if (btcIsObject &&
Object.keys(directive.scope !).length) {\n    throw new Error(\n
`Binding definitions on scope and controller at the same time is not supported.`);\n    }\n\n    const context =
btcIsObject ? directive.bindToController : directive.scope;\n    const bindings = new Bindings();\n\n    if (typeof
context == 'object') {\n    Object.keys(context).forEach(propName => {\n    const definition =
context[propName];\n    const bindingType = definition.charAt(0);\n\n // QUESTION: What about `=*`?
Ignore? Throw? Support?)\n    switch (bindingType) {\n    case '@':\n    case '<':\n // We don't need
to do anything special. They will be defined as inputs on the\n // upgraded component facade and the change
propagation will be handled by\n // `ngOnChanges`.\n    break;\n    case '=':\n
bindings.twoWayBoundProperties.push(propName);\n    bindings.twoWayBoundLastValues.push(INITIAL_VALUE);\n
bindings.propertyToOutputMap[propName]
= propName + 'Change';\n    break;\n    case '&':\n    bindings.expressionBoundProperties.push(propName);\n
bindings.propertyToOutputMap[propName] = propName;\n    break;\n    default:\n    let json =
JSON.stringify(context);\n    throw new Error(\n
`Unexpected mapping '${bindingType}' in '${json}'
in '${this.name}' directive.`);\n    }\n    });\n    }\n\n    return bindings;\n    }\n\n private initializeOutputs() {\n //
Initialize the outputs for `=` and `&` bindings\n
this.bindings.twoWayBoundProperties.concat(this.bindings.expressionBoundProperties)\n    .forEach(propName
=> {\n    const outputName = this.bindings.propertyToOutputMap[propName];\n    (this as
any)[outputName] = new EventEmitter();\n    });\n    }\n\n private bindOutputs() {\n // Bind `&` bindings to the
corresponding outputs\n    this.bindings.expressionBoundProperties.forEach(propName => {\n    const outputName

```

```

= this.bindings.propertyToOutputMap[propName];\n
  const emitter = (this as any)[outputName];\n\n  this.bindingDestination[propName] = (value: any) =>
emitter.emit(value);\n  });\n\n\n  private forwardChanges(changes: SimpleChanges) {\n  // Forward input
changes to `bindingDestination`\n  Object.keys(changes).forEach(\n    propName =>
this.bindingDestination[propName] = changes[propName].currentValue);\n\n  if
(isFunction(this.bindingDestination.$onChanges)) {\n    this.bindingDestination.$onChanges(changes);\n  }\n
}\n\n\n"/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is
governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n
*\n\nimport {Injector, NgModule, NgZone, Testability, isDevMode} from '@angular/core';\nimport
{IInjectorService, IIntervalService, IProvideService, ITestabilityService, bootstrap, element as angularElement,
module_ as angularModule} from '../src/common/src/angular1';\nimport
{$$TESTABILITY, $DELEGATE, $INJECTOR, $INTERVAL, $PROVIDE, INJECTOR_KEY,
LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from
'../src/common/src/constants';\nimport {LazyModuleRef, UpgradeAppType, controllerKey} from
'../src/common/src/util';\nimport {angular1Providers, setTempInjectorRef} from './angular1_providers';\nimport
{NgAdapterInjector} from './util';\n\n\n/**\n * @description\n * An `NgModule`, which you import to provide
AngularJS core services,\n * and has an instance method used to bootstrap the hybrid upgrade application.\n *\n *
Part of the [upgrade/static](api?query=upgrade/static)\n * library for hybrid upgrade apps that support AOT
compilation*\n *\n * The `upgrade/static` package contains helpers that allow AngularJS and Angular components\n
* to be used together inside a hybrid upgrade application, which supports AOT compilation.\n *\n * Specifically, the
classes and functions in the `upgrade/static`\n
module allow the following:\n *\n * 1. Creation of an Angular directive that wraps and exposes an AngularJS
component so\n * that it can be used in an Angular template. See `UpgradeComponent`.\n *\n * 2. Creation of an
AngularJS directive that wraps and exposes an Angular component so\n * that it can be used in an AngularJS
template. See `downgradeComponent`.\n *\n * 3. Creation of an Angular root injector provider that wraps and exposes
an AngularJS\n * service so that it can be injected into an Angular context. See\n * {@link
UpgradeModule#upgrading-an-angular-1-service Upgrading an AngularJS service} below.\n *\n * 4. Creation of an
AngularJS service that wraps and exposes an Angular injectable\n * so that it can be injected into an AngularJS
context. See `downgradeInjectable`.\n *\n * 3. Bootstrapping of a hybrid Angular application which contains both of the
frameworks\n * coexisting in a single application.\n *\n * @usageNotes\n *\n * ```ts\n * import {UpgradeModule}
from '@angular/upgrade/static';\n
*\n * ```\n *\n * See also the {@link UpgradeModule#examples examples} below.\n *\n * ### Mental Model\n *\n *
When reasoning about how a hybrid application works it is useful to have a mental model which\n * describes what
is happening and explains what is happening at the lowest level.\n *\n * 1. There are two independent frameworks
running in a single application, each framework treats\n * the other as a black box.\n *\n * 2. Each DOM element on
the page is owned exactly by one framework. Whichever framework\n * instantiated the element is the owner.
Each framework only updates/interacts with its own\n * DOM elements and ignores others.\n *\n * 3. AngularJS
directives always execute inside the AngularJS framework codebase regardless of\n * where they are
instantiated.\n *\n * 4. Angular components always execute inside the Angular framework codebase regardless of\n
* where they are instantiated.\n *\n * 5. An AngularJS component can be `"upgraded\" to an Angular
component. This is achieved by\n * defining an Angular directive, which bootstraps the AngularJS component at
its location\n * in the DOM. See `UpgradeComponent`.\n *\n * 6. An Angular component can be `"downgraded\" to
an AngularJS component. This is achieved by\n * defining an AngularJS directive, which bootstraps the Angular
component at its location\n * in the DOM. See `downgradeComponent`.\n *\n * 7. Whenever an
`"upgraded\"/\"downgraded\" component is instantiated the host element is owned by\n * the framework doing the
instantiation. The other framework then instantiates and owns the\n * view for that component.\n *\n * 1. This
implies that the component bindings will always follow the semantics of the\n * instantiation framework.\n *\n
* 2. The DOM attributes are parsed by the framework that owns the current template. So\n * attributes in

```



AngularJS templates must use kebab-case, while AngularJS templates must use camelCase. 3.

However the template

binding syntax will always use the Angular style, e.g. square brackets ([...]) for property binding. 8.

Angular is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the root component of the application. 9. The new application is running in an Angular zone, and therefore it no longer needs calls to \$apply().  
### 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.  
\* Bootstrap  
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 [AngularJS

\$injector](https://docs.angularjs.org/api/auto/service/\$injector).  
### Examples  
\* Import the

`UpgradeModule` into your top level {@link NgModule Angular `NgModule`}.  
\* @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 [AngularJS

module](https://docs.angularjs.org/api/ng/type/angular.Module) in the `ngDoBootstrap()` method.  
\* @example  
upgrade/static/ts/full/module.ts region='bootstrap-ng1')

\* Finally, kick off the whole process, by bootstrapping your top level Angular `NgModule`.  
\* @example  
upgrade/static/ts/full/module.ts region='bootstrap-ng2')

\* @a upgrading-an-angular-1-service)  
### Upgrading an AngularJS service  
\* There is no

specific API for upgrading an AngularJS service. Instead you should just follow the following recipe:  
\* Let's say you have an AngularJS service:  
\* @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.  
\* @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 or service.  
\* @example  
upgrade/static/ts/full/module.ts region='use-ng1-upgraded-service')

\* @publicApi  
\*\n@NgModule({providers: [angular1Providers]})\nexport class UpgradeModule {\n /\*\*\n \* The AngularJS

`\$injector` for the upgrade application.  
\*\n public \$injector: any /\*angular.IInjectorService\*/;\n /\*\*\n The Angular Injector  
\*\n public injector: Injector;\n\n constructor(\n /\*\*\n The root `Injector` for the upgrade

application.  
\*\n injector: Injector,\n /\*\*\n The bootstrap zone for the upgrade application  
\*\n public ngZone: NgZone) {\n this.injector = new NgAdapterInjector(injector);\n }\n\n /\*\*\n \* 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  
\*\n bootstrap(\n element: Element, modules: string[] = [], config?: any /\*angular.IAngularBootstrapConfig\*/) {\n const INIT\_MODULE\_NAME =

UPGRADE\_MODULE\_NAME + '.init';  
// Create an ng1 module to bootstrap  
const initModule =\n angularModule(INIT\_MODULE\_NAME, [])\n .constant(UPGRADE\_APP\_TYPE\_KEY,

UpgradeAppType.Static)\n .value(INJECTOR\_KEY, this.injector)\n .factory(\n LAZY\_MODULE\_REF,\n [INJECTOR\_KEY,

(injector: Injector) => ({ injector } as LazyModuleRef))\n .config([\n \$PROVIDE,\n \$INJECTOR,\n (\$provide: IProvideService, \$injector: IInjectorService) => {\n if

(\$injector.has(\$\$TESTABILITY)) {\n \$provide.decorator(\$\$TESTABILITY, [\n \$DELEGATE,\n (testabilityDelegate: ITestabilityService) => {\n const

originalWhenStable: Function = testabilityDelegate.whenStable;\n const injector = this.injector;\n // Cannot use arrow function below because we need the context  
const newWhenStable =

function(callback: Function) {\n originalWhenStable.call(testabilityDelegate, function() {\n



items to appear in the public api. Keep it that way.\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// This file is not used to build this module. It is only used during editing\n// by the TypeScript language service and during build for verification. `ngc`\n// replaces this file with production index.ts when it rewrites private symbol\n// names.\n\nexport \* from './public\_api';\n","/\*\*\n \* Generated bundle index. Do not edit.\n \*\n\nexport \* from './index';\n\nexport {angular1Providers as Éµangular\_packages\_upgrade\_static\_static\_e,compileFactory as Éµangular\_packages\_upgrade\_static\_static\_c,injectorFactory as Éµangular\_packages\_upgrade\_static\_static\_a,parseFactory as Éµangular\_packages\_upgrade\_static\_static\_d,rootScopeFactory as Éµangular\_packages\_upgrade\_static\_static\_b} from './src/angular1\_providers';\n"],"names":["NOT\_FOUND\_CHECK\_ONLY\_ELEMENT\_INJECTOR","angularModule","angularElement","INITIAL\_VALUE","looseIdentical","element"],"mappings":":;;;;;;;;;AAAA;;;;;;;;;AA0NA,SAA S,IAAI;IACX,MAAM,IAAI,KAAC,CAAC,+BAA+B,CAAC,CAAC;CACID;AAED,IAAM,WAAW,IAA4B,cAA M,OAAA,IAAI,EAAE,GAAA,CAAQ,CAAC;AACIE,WAAW,CAAC,SAAS,GAAG,IAAI,CAAC;AAE7B,IAAI,O AAO,GAYP;IACF,SAAS,EAAE,IAAI;IACf,MAAM,EAAE,IAAI;IACZ,OAAO,EAAE,WAAW;IACpB,QAAQ,E AAE,IAAI;IACd,OAAO,EAAE,SAAGB;IACzB,eAAe,EAAE,IAAI;IACrB,cAAc,EAAE,IAAI;CACrB,CAAC;AA EF,IAAI;IACF,IAAI,MAAM,CAAC,cAAc,CAAC,SAAS,CAAC,EAAE;QACpC,OAAO,GAAS,MAAO,CAAC,O AAO,CAAC;KACjC;CACF;AAAC,WAAW;;CAEP;;;;;;;;;AAOD,SAAGB,aAAa,CAAC,EAAO;IACnC,kBAaKB,CA AC,EAAE,CAAC,CAAC;CACxB;;;;;;;;;AAOD,SAAGB,aAAa;IAC3B,OAAO,kBAaKB,EAAE,CAAC;CAC7B;;;;;;;;; AASD,SAAGB,kBAaKB,CAAC,EAAO;IACxC,OAAO,GAAG,EAAE,CAAC;CACd;;;;;;;;;AAOD,SAAGB,kBAaKB; IAChC,OAAO,OAAO,CAAC;CACbB;AAED,AAA0,IAAM,SAAS,GAA6B,UAAc,CAAC,EAAE,OAAO,EAAE, MAAO;IACnE,OAAA,OAAO,CAAC,SAAS,CAAC,CAAC,EAAE,OAAO,EAAE,MAAM,CAAC;CAAA,CAAC;; AAI1C,AAA0,IAAM,OAAO,GAA0B,UAAc,MAAM,EAAE,YAAa;IAChE,OAAA,OAAO,CAAC,MAAM,CAA C,MAAM,EAAE,YAAY,CAAC;CAAA,CAAC;AAEzC,AAA0,IAAM,OAAO,IAA4B,UAAA,CAAC,IAAI,OAA A,OAAO,CAAC,OAAO,CAAC,CAAC,CAAC,GAAA,CAA2B,CAAC;AACnG,OAAO,CAAC,SAAS,GAAG,UA AA,KAAC,IAAI,OAAA,OAAO,CAAC,OAAO,CAAC,SAAS,CAAC,KAAC,CAAC,GAAA,CAAC;AAE9D,AAA O,IAAM,QAAQ,GACjB,UAAc,OAAc,EAAE,QAAkB,IAAK,OAAA,OAAO,CAAC,QAAQ,CAAC,OAAO,EA AE,QAAQ,CAAC,GAAA,CAAC;AAEpG,AAA0,IAAM,eAAe,GAAMc,cAAM,OAAA,OAAO,CAAC,eAAe,EA AE,GAAA,CAAC;AAE/F,AAA0,IAAM,cAAc,GAAC,UAAA,CAAC,IAAI,OAAA,OAAO,CAAC,cAAc,CAAC, CAAC,CAAC,GAAA,CAAC;;ACrT5F;;;;;;;;;AAQA,AAA0,IAAM,QAAQ,GAAG,UAAU,CAAC;AACnC,AAA0,I AAM,WAAW,GAAG,aAAa,CAAC;AACzC,AAA0,IAAM,SAAS,GAAG,WAAW,CAAC;AACrC,AAA0,IAAM, kBAaKB,GAAG,mBAAmB,CAAC;AACtD,AAA0,IAAM,aAAa,GAAG,cAAc,CAAC;AAC5C,AAA0,IAAM,SA AS,GAAG,WAAW,CAAC;AACrC,AAA0,IAAM,SAAS,GAAG,WAAW,CAAC;AACrC,AAA0,IAAM,MAAM, GAAG,QAAQ,CAAC;AAC/B,AAA0,IAAM,QAAQ,GAAG,UAAU,CAAC;AACnC,AAA0,IAAM,WAAW,GAA G,YAAY,CAAC;AACxC,AAA0,IAAM,MAAM,GAAG,QAAQ,CAAC;AAC/B,AAA0,IAAM,eAAe,GAAG,gBA AgB,CAAC;AACbD,AAA0,IAAM,iBAaIB,GAAG,kBAaKB,CAAC;AAEpD,AAA0,IAAM,aAAa,GAAG,eAAe, CAAC;AAE7C,AAA0,IAAM,YAAY,GAAG,mBAAmB,CAAC;AACbD,AAA0,IAAM,2BAA2B,GAAG,gCAAg C,CAAC;AAC5E,AAA0,IAAM,2BAA2B,GAAG,gCAAgC,CAAC;AAC5E,AAA0,IAAM,YAAY,GAAG,mBAA mB,CAAC;AACbD,AAA0,IAAM,eAAe,GAAG,wBAAwB,CAAC;AACxD,AAA0,IAAM,WAAW,GAAG,iBAaI B,CAAC;AAC7C,AAA0,IAAM,oBAAoB,GAAG,yBAayB,CAAC;AAE9D,AAA0,IAAM,gBAaGB,GAAG,KAA K,GAAG,YAAY,CAAC;AACrD,AAA0,IAAM,gBAaGB,GAAG,UAAU,CAAC;AAE3C,AAA0,IAAM,mBAAm B,GAAG,iBAaIB,CAAC;;ACnCrD;;;;;;;;;AAcA;IACe,yBAAmB,IAAY,EAAS,IAAY;QAAjC,SAAI,GA AJ,IAA I,CAAQ;QAAS,SAAI,GA AJ,IAAI,CAAQ;QAAL,IAAI,CAAC,YAAY,EAAE,CAAC;KAAE;IAEtE,sCAAY,GAAP B;QACE,IAAI,CAAC,WAAW,GAAG,MAAI,IAAI,CAAC,IAAI,MAAG,CAAC;QACpC,IAAI,CAAC,SAAS,GA AG,MAAI,IAAI,CAAC,IAAI,MAAG,CAAC;QACIC,IAAI,CAAC,gBAaGB,GAAG,OAAK,IAAI,CAAC,IAAI,O AAI,CAAC;QAC3C,IAAM,WAAW,GAAG,IAAI,CAAC,IAAI,CAAC,MAAM,CAAC,CAAC,CAAC,CAAC,WA AW,EAAE,GAAG,IAAI,CAAC,IAAI,CAAC,MAAM,CAAC,CAAC,CAAC,CAAC;QAC5E,IAAI,CAAC,MAAM,

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* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/bundles/upgrade-static-testing.umd.min.js
```

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

```
{"version":3,"file":"upgrade-static-testing.umd.js","sources":["../../../../external/npm/node_modules/tslib/tslib.es6.js", "../../../../packages/upgrade/src/common/src/angular1.ts", "../../../../packages/upgrade/src/common/src/constants.ts", "../../../../packages/upgrade/static/testing/src/create_angular_testing_module.ts", "../../../../packages/upgrade/static/testing/src/create_angularjs_testing_module.ts", "../../../../packages/upgrade/static/testing/public_api.ts", "../../../../packages/upgrade/static/testing/index.ts", "../../../../packages/upgrade/static/testing/testing.ts"],"sourcesContent":["/*!
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Microsoft Corporation. All rights reserved.\r\nLicensed under the Apache License, Version 2.0 (the \"License\");
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the License. You may obtain a copy of the\r\nLicense at http://www.apache.org/licenses/LICENSE-2.0\r\n\r\nTHIS
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PURPOSE,\r\nMERCHANTABILITY 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) {
(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
```



```

ar;\r\n\r\n\r\nexport function __spread() {\r\n  for (var ar = [], i = 0; i < arguments.length; i++)\r\n    ar =
ar.concat(__read(arguments[i]));\r\n  return ar;\r\n}\r\n\r\n\r\nexport function __spreadArrays() {\r\n  for (var s = 0, i
= 0, il = arguments.length; i < il; i++) s += arguments[i].length;\r\n  for (var r = Array(s), k = 0, i = 0; i < il;
i++)\r\n    for (var a = arguments[i], j = 0, jl = a.length; j < jl; j++, k++)\r\n      r[k] = a[j];\r\n  return
r;\r\n};\r\n\r\n\r\nexport function __await(v) {\r\n  return this instanceof __await ? (this.v = v, this) : new
__await(v);\r\n}\r\n\r\n\r\nexport
function __asyncGenerator(thisArg, _arguments, generator) {\r\n  if (!Symbol.asyncIterator) throw new
TypeError("Symbol.asyncIterator is not defined.");\r\n  var g = generator.apply(thisArg, _arguments || []), i, q =
[];\r\n  return i = {}, verb("next"), verb("throw"), verb("return"), i[Symbol.asyncIterator] = function () { return
this; }, i;\r\n  function verb(n) { if (g[n]) i[n] = function (v) { return new Promise(function (a, b) { q.push([n, v, a,
b]) > 1 || resume(n, v); }); }; }\r\n  function resume(n, v) { try { step(g[n](v)); } catch (e) { settle(q[0][3], e); } }\r\n
  function step(r) { r.value instanceof __await ? Promise.resolve(r.value.v).then(fulfill, reject) : settle(q[0][2], r);
}\r\n  function fulfill(value) { resume("next", value); }\r\n  function reject(value) { resume("throw", value);
}\r\n  function settle(f, v) { if (f(v), q.shift(), q.length) resume(q[0][0], q[0][1]); }\r\n}\r\n\r\n\r\nexport function
__asyncDelegator(o) {\r\n  var
i, p;\r\n  return i = {}, verb("next"), verb("throw", function (e) { throw e; }), verb("return"), i[Symbol.iterator]
= function () { return this; }, i;\r\n  function verb(n, f) { i[n] = o[n] ? function (v) { return (p = !p) ? { value:
__await(o[n](v)), done: n === "return" } : f ? f(v) : v; } : f; }\r\n}\r\n\r\n\r\nexport function __asyncValues(o) {\r\n  if
(!Symbol.asyncIterator) throw new TypeError("Symbol.asyncIterator is not defined.");\r\n  var m =
o[Symbol.asyncIterator], i;\r\n  return m ? m.call(o) : (o = typeof __values === "function" ? __values(o) :
o[Symbol.iterator](), i = {}, verb("next"), verb("throw"), verb("return"), i[Symbol.asyncIterator] = function () {
return this; }, i);\r\n  function verb(n) { i[n] = o[n] && function (v) { return new Promise(function (resolve, reject)
{ v = o[n](v), settle(resolve, reject, v.done, v.value); }); }; }\r\n  function settle(resolve, reject, d, v) {
Promise.resolve(v).then(function(v) { resolve({ value: v,
done: d }); }, reject); }\r\n}\r\n\r\n\r\nexport function __makeTemplateObject(cooked, raw) {\r\n  if
(Object.defineProperty) { Object.defineProperty(cooked, "raw", { value: raw }); } else { cooked.raw = raw; }\r\n
return cooked;\r\n};\r\n\r\n\r\nexport function __importStar(mod) {\r\n  if (mod && mod.__esModule) return mod;\r\n
var result = {};\r\n  if (mod != null) for (var k in mod) if (Object.hasOwnProperty.call(mod, k)) result[k] =
mod[k];\r\n  result.default = mod;\r\n  return result;\r\n}\r\n\r\n\r\nexport function __importDefault(mod) {\r\n
return (mod && mod.__esModule) ? mod : { default: mod };\r\n}\r\n}\r\n\r\n\r\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\nexport type Ng1Token = string;\n\nexport type Ng1Expression
= string | Function;\n\nexport interface IAnnotatedFunction extends Function {\n // Older versions
of `@types/angular` typings extend the global `Function` interface with\n // `$inject?: string[]`, which is not
compatible with `$inject?: ReadonlyArray<string>` (used in\n // latest versions).\n $inject?: Function
extends {$inject?: string[]}? Ng1Token[]: ReadonlyArray<Ng1Token>;\n}\n\nexport type IInjectable = (Ng1Token |
Function)[] | IAnnotatedFunction;\n\nexport type SingleOrListOrMap<T> = T | T[] | {[key: string]: T};\n\nexport
interface IModule {\n name: string;\n requires: (string | IInjectable)[];\n config(fn: IInjectable): IModule;\n
directive(selector: string, factory: IInjectable): IModule;\n component(selector: string, component: IComponent):
IModule;\n controller(name: string, type: IInjectable): IModule;\n factory(key: Ng1Token, factoryFn: IInjectable):
IModule;\n value(key: Ng1Token, value: any): IModule;\n constant(token: Ng1Token, value: any): IModule;\n
run(a: IInjectable): IModule;\n}\n\nexport interface ICompileService {\n (element: Element | NodeList | Node[])string,
transclude?: Function): ILinkFn;\n}\n\nexport interface ILinkFn {\n (scope: IScope, cloneAttachFn?:
ICloneAttachFunction, options?: ILinkFnOptions): IAugmentedJQuery;\n $$slots?: {[slotName: string]:
ILinkFn};\n}\n\nexport interface ILinkFnOptions {\n parentBoundTranscludeFn?: Function;\n
transcludeControllers?: {[key: string]: any};\n futureParentElement?: Node;\n}\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}\n\nexport
interface IScope extends
  IRootScopeService {}
\n\nexport interface IAngularBootstrapConfig { strictDi?: boolean; }\n\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}\n\nexport type
DirectiveRequireProperty = SingleOrListOrMap<string>;\n\nexport type DirectiveTranscludeProperty = boolean |
'element' | {[key: string]: string};\n\nexport interface IDirectiveCompileFn {\n (templateElement:
IAugmentedJQuery, templateAttributes: IAttributes,\n transclude: ITranscludeFunction):
IDirectivePrePost;\n}\n\nexport interface IDirectivePrePost
{\n pre?: IDirectiveLinkFn;\n post?: IDirectiveLinkFn;\n}\n\nexport interface IDirectiveLinkFn {\n (scope: IScope,
instanceElement: IAugmentedJQuery, instanceAttributes: IAttributes,\n controller: any, transclude:
ITranscludeFunction): void;\n}\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}\n\nexport interface IAttributes {\n
$observe(attr: string, fn: (v: string) => void): void;\n [key: string]: any;\n}\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}\n\nexport interface
ICloneAttachFunction { (clonedElement: IAugmentedJQuery, scope: IScope): any; }\n\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};\n\nexport
interface IProvider { $get: IInjectable; }\n\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}\n\nexport interface IParseService { (expression: string):
ICompiledExpression; }\n\nexport interface ICompiledExpression {\n (context: any, locals: any): any;\n assign?:
(context: any, value: any) => any;\n}\n\nexport interface IHttpBackendService {\n (method: string, url: string, post?:
any, callback?: Function, headers?: any, timeout?: number,\n withCredentials?: boolean): void;\n}\n\nexport
interface ICacheObject {\n put<T>(key: string, value?: T): T;\n get(key: string): any;\n}\n\nexport interface
ITemplateCacheService extends ICacheObject {}\n\nexport interface ITemplateRequestService {\n (template:
string|any /* TrustedResourceUrl */, ignoreRequestError?: boolean): Promise<string>;\n totalPendingRequests:
number;\n}\n\nexport type IController = string | IInjectable;\n\nexport interface IControllerService {\n
(controllerConstructor:
IController, locals?: any, later?: any, ident?: any): any;\n (controllerName: string, locals?: any): any;\n}\n\n\nexport
interface IInjectorService {\n get(key: string): any;\n has(key: string): boolean;\n}\n\n\nexport interface
IIntervalService {\n (func: Function, delay: number, count?: number, invokeApply?: boolean,\n ...args: any[]):
Promise<any>;\n cancel(promise: Promise<any>): boolean;\n}\n\n\nexport interface ITestabilityService {\n
findBindings(element: Element, expression: string, opt_exactMatch?: boolean): Element[];\n findModels(element:

```

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Element, expression: string, opt_exactMatch?: boolean): Element[];\n getLocation(): string;\n setLocation(url:
string): void;\n whenStable(callback: Function): void;\n}\n\nexport interface INgModelController {\n $render():
void;\n $isEmpty(value: any): boolean;\n $setValidity(validationErrorKey: string, isValid: boolean): void;\n
$setPristine(): void;\n $setDirty(): void;\n $setUntouched(): void;\n $setTouched(): void;\n
  $rollbackViewValue(): void;\n $validate(): void;\n $commitViewValue(): void;\n $setViewValue(value: any,
trigger: string): void;\n\n $viewValue: any;\n $modelValue: any;\n $parsers: Function[];\n $formatters:
Function[];\n $validators: {[key: string]: Function};\n $asyncValidators: {[key: string]: Function};\n
  $viewChangeListeners: Function[];\n $error: Object;\n $pending: Object;\n $untouched: boolean;\n $touched:
boolean;\n $pristine: boolean;\n $dirty: boolean;\n $valid: boolean;\n $invalid: boolean;\n $name:
string;\n}\n\nfunction noNg(): never {\n throw new Error('AngularJS v1.x is not loaded!');\n}\n\nconst
noNgElement: typeof angular.element = (() => noNg()) as any;\nnoNgElement.cleanData = noNg;\n\nlet angular:
{\n bootstrap: (e: Element, modules: (string | IInjectable)[], config?: IAngularBootstrapConfig) =>\n
  InjectorService,\n module: (prefix: string, dependencies?: string[]) => IModule,\n element: {\n (e: string |
  Element |
  Document | IAugmentedJQuery): IAugmentedJQuery;\n cleanData: (nodes: Node[] | NodeList) => void;\n },\n
injector: (modules: Array<string|IInjectable>, strictDi?: boolean) => IInjectorService,\n version: {major:
number},\n resumeBootstrap: () => void,\n getTestability: (e: Element) => ITestabilityService\n} = {\n bootstrap:
noNg,\n module: noNg,\n element: noNgElement,\n injector: noNg,\n version: undefined as any,\n
resumeBootstrap: noNg,\n getTestability: noNg\n};\n\ntry {\n if (window.hasOwnProperty('angular')) {\n angular
= (<any>window).angular;\n } } catch {\n // ignore in CJS mode.\n}\n\n/**\n * @deprecated Use
`setAngularJSGlobal` instead.\n *\n * @publicApi\n */\nexport function setAngularLib(ng: any): void {\n
setAngularJSGlobal(ng);\n}\n\n/**\n * @deprecated Use `getAngularJSGlobal` instead.\n *\n * @publicApi\n
*/\nexport function getAngularLib(): any {\n return getAngularJSGlobal();\n}\n\n/**\n * Resets the AngularJS
global.\n *\n * Used when AngularJS
is loaded lazily, and not available on `window`.\n *\n * @publicApi\n */\nexport function setAngularJSGlobal(ng:
any): void {\n angular = ng;\n}\n\n/**\n * Returns the current AngularJS global.\n *\n * @publicApi\n
*/\nexport function getAngularJSGlobal(): any {\n return angular;\n}\n\nexport const bootstrap: typeof angular.bootstrap = (e,
modules, config?) =>\n angular.bootstrap(e, modules, config);\n\n// Do not declare as `module` to avoid webpack
bug\n// (see https://github.com/angular/angular/issues/30050).\nexport const module_: typeof angular.module =
(prefix, dependencies?) =>\n angular.module(prefix, dependencies);\n\nexport const element: typeof
angular.element = (e => angular.element(e)) as typeof angular.element;\nelement.cleanData = nodes =>
angular.element.cleanData(nodes);\n\nexport const injector: typeof angular.injector =\n (modules:
Array<string|IInjectable>, strictDi?: boolean) => angular.injector(modules, strictDi);\n\nexport const
resumeBootstrap: typeof
angular.resumeBootstrap = () => angular.resumeBootstrap();\n\nexport const getTestability: typeof
angular.getTestability = e => 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\nexport const $COMPILE = '$compile';\nexport const
$CONTROLLER = '$controller';\nexport const $DELEGATE = '$delegate';\nexport const
$EXCEPTION_HANDLER = '$exceptionHandler';\nexport const $HTTP_BACKEND = '$httpBackend';\nexport
const $INJECTOR = '$injector';\nexport const $INTERVAL = '$interval';\nexport const $PARSE = '$parse';\nexport
const $PROVIDE = '$provide';\nexport const $ROOT_SCOPE = '$rootScope';\nexport const $SCOPE =
$scope';\nexport const $TEMPLATE_CACHE = '$templateCache';\nexport const $TEMPLATE_REQUEST =
$templateRequest';\n\nexport const $TESTABILITY = '$$testability';\n\nexport const COMPILER_KEY
= '$$angularCompiler';\nexport const DOWNGRADED_MODULE_COUNT_KEY =
'$angularDowngradedModuleCount';\nexport const GROUP_PROJECTABLE_NODES_KEY =
'$angularGroupProjectableNodes';\nexport const INJECTOR_KEY = '$angularInjector';\nexport const
LAZY_MODULE_REF = '$angularLazyModuleRef';\nexport const NG_ZONE_KEY =

```

```

'$angularNgZone';\nexport const UPGRADE_APP_TYPE_KEY = '$angularUpgradeAppType';\n\nexport const
REQUIRE_INJECTOR = '?^' + INJECTOR_KEY;\nexport const REQUIRE_NG_MODEL =
'?ngModel';\n\nexport const UPGRADE_MODULE_NAME = '$UpgradeModule';\n"/**\n *
Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that
can be\n * found in the LICENSE file at https://angular.io/license\n *\n\nimport { Injector, NgModule, Type } from
'@angular/core';\n\nimport * as angular from '../././src/common/src/angular1';\nimport { $INJECTOR,
INJECTOR_KEY, UPGRADE_APP_TYPE_KEY } from '../././src/common/src/constants';\nimport
{ UpgradeAppType }
from '../././src/common/src/util';\n\nlet $injector: angular.IInjectorService|null = null;\nlet injector:
Injector;\n\nexport function $injectorFactory() {\n  return $injector;\n}\n\n@NgModule({ providers: [{ provide:
$INJECTOR, useFactory: $injectorFactory } ]})\n\nexport class AngularTestingModule {\n  constructor(i: Injector) {\n
injector = i; }\n}\n"/**\n * A helper function to use when unit testing Angular services that depend upon upgraded
AngularJS\n * services.\n * This function returns an `NgModule` decorated class that is configured to wire up
the Angular\n * and AngularJS injectors without the need to actually bootstrap a hybrid application.\n * This makes
it simpler and faster to unit test services.\n * Use the returned class as an `import` when configuring the
`TestBed`.\n * In the following code snippet, we are configuring the TestBed with two imports.\n * The
`Ng2AppModule` is the Angular part of our hybrid application and the `ng1AppModule` is the\n
* AngularJS part.\n * <code-example path="upgrade/static/ts/full/module.spec.ts" region="angular-
setup">\n * Once this is done we can get hold of services via the Angular `Injector` as
normal.\n * Services that are (or have dependencies on) an upgraded AngularJS service, will be instantiated\n * as
needed by the AngularJS `$injector`.\n * In the following code snippet, `HeroesService` is an Angular service
that depends upon an\n * AngularJS service, `titleCase`.\n * <code-example
path="upgrade/static/ts/full/module.spec.ts" region="angular-spec">\n * <div class="alert
is-important">\n * This helper is for testing services not Components.\n * For Component testing you must still
bootstrap a hybrid app. See `UpgradeModule` or\n * `downgradeModule` for more information.\n * </div>\n *\n * <div class="alert is-important">\n * The resulting configuration does not wire up AngularJS digests to Zone
hooks. It is the\n
* responsibility of the test writer to call `$rootScope.$apply`, as necessary, to trigger\n * AngularJS handlers of
async events from Angular.\n * </div>\n * <div class="alert is-important">\n * The helper sets up
global variables to hold the shared Angular and AngularJS injectors.\n * Only call this helper once per spec.\n
* * Do not use `createAngularTestingModule` in the same spec as `createAngularJSTestingModule`.\n *
</div>\n * Here is the example application and its unit tests that use `createAngularTestingModule`\n * and
`createAngularJSTestingModule`.\n * <code-tabs>\n * <code-pane header="module.spec.ts"\n
path="upgrade/static/ts/full/module.spec.ts">\n * <code-pane header="module.ts"\n
path="upgrade/static/ts/full/module.ts">\n * </code-pane>\n * </code-tabs>\n * \n * @param angularJSMODULES a
collection of the names of AngularJS modules to include in the\n * configuration.\n * @param [strictDi] whether the
AngularJS injector
should have `strictDI` enabled.\n * @publicApi\n */\nexport function createAngularTestingModule(\n
angularJSMODULES: string[], strictDi?: boolean): Type<any> {\n  angular.module_('$angularJSTestingModule',
angularJSMODULES)\n    .constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Static)\n
.factory(INJECTOR_KEY, () => injector);\n  $injector = angular.injector(['ng', '$angularJSTestingModule'],
strictDi);\n  return AngularTestingModule;\n}\n"/**\n * Copyright Google Inc. All Rights
Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n *\n\nimport { Injector } from '@angular/core';\nimport { TestBed } from
'@angular/core/testing';\n\nimport * as ng from '../././src/common/src/angular1';\nimport { $INJECTOR,
INJECTOR_KEY, UPGRADE_APP_TYPE_KEY } from '../././src/common/src/constants';\nimport
{ UpgradeAppType } from '../././src/common/src/util';\n\n/**\n * A helper

```

function to use when unit testing AngularJS services that depend upon downgraded Angular services. This function returns an AngularJS module that is configured to wire up the AngularJS and Angular injectors without the need to actually bootstrap a hybrid application. This makes it simpler and faster to unit test services. Use the returned AngularJS module in a call to

`angular.mocks.module` (<https://docs.angularjs.org/api/ngMock/function/angular.mock.module>) to include this module in the unit test injector. In the following code snippet, we are configuring the `$injector` with two modules: The AngularJS `ng1AppModule`, which is the AngularJS part of our hybrid application and the `Ng2AppModule`, which is the Angular part. `<code-example path="upgrade/static/ts/full/module.spec.ts" region="angularjs-setup"></code-example>` Once this is done we can get hold of services via the AngularJS `$injector` as normal.

Services that are (or have dependencies on) a downgraded Angular service, will be instantiated as needed by the Angular root `Injector`. In the following code snippet, `heroesService` is a downgraded Angular service that we are accessing from AngularJS. `<code-example path="upgrade/static/ts/full/module.spec.ts" region="angularjs-spec"></code-example>` `<div class="alert is-important">` This helper is for testing services not components. For Component testing you must still bootstrap a hybrid app. See `UpgradeModule` or `downgradeModule` for more information. `</div>` `<div class="alert is-important">`

The resulting configuration does not wire up AngularJS digests to Zone hooks. It is the responsibility of the test writer to call `$rootScope.$apply`, as necessary, to trigger AngularJS handlers of async events from Angular. `</div>` `<div class="alert is-important">` 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`. `</div>` 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 angularModules a
  collection of Angular modules to include in the configuration.
  @publicApi
  @ngexport 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;
  }
}
  /**
  * 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
  */
  @ngexport {createAngularTestingModule} from
  './src/create_angular_testing_module';
  @ngexport {createAngularJSTestingModule} from
  './src/create_angularjs_testing_module';
  /**
  * 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
  */
  @ngexport * from './public_api';
  /**
  * Generated bundle index. Do not edit.
  */
  @ngexport * from './index';
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CAAC,SAAS,CAAC,CAAC,EAAE,OAAO,EAAE,MAAM,CAAC;IAArC,CAAqC,CAAC;IAE1C;IACA;AACA,Q  
AAa,OAAO,GAA0B,UAAc,MAAM,EAAE,YAAa;QACHe,OAAA,OAAO,CAAC,MAAM,CAAC,MAAM,EAAE  
,YAAY,CAAC;IAApC,CAAoC,CAAC;AAEzC,IAAO,IAAM,OAAO,IAA4B,UAAA,CAAC,IAAI,OAAA,OAAO,  
CAAC,OAAO,CAAC,CAAC,CAAC,GAAA,CAA2B,CAAC;IACnG,OAAO,CAAC,SAAS,GAAG,UAAA,KAAK,  
IAAI,OAAA,OAAO,CAAC,OAAO,CAAC,SAAS,CAAC,KAAK,CAAC,GAAA,CAAC;AAE9D,IAAO,IAAM,QA  
AQ,GACjB,UAAc,OAAkC,EAAE,QAkK,IAAK,OAAA,OAAO,CAAC,QAAQ,CAAC,OAAO,EAAE,QAAQ,C  
AAC,GAAA,CAAC;AAEpG,IAAO,IAAM,eAAe,GAAmC,cAAM,OAAA,OAAO,CAAC,eAAe,EAAE,GAAA,CA  
AC;AAE/F,IAAO,IAAM,cAAc,GAkC,UAAA,CAAC,IAAI,OAAA,OAAO,CAAC,cAAc,CAAC,CAAC,CAAC,



GAAA,CAAC;;ICrT5F;;;;;;AAQA,IAAO,IAAM,QAAQ,GAAG,UAAU,CAAC;AACnC,IAAO,IAAM,WAAW,G  
AAG,aAAa,CAAC;AACzC,IAAO,IAAM,SAAS,GAAG,WAAW,CAAC;AACrC,IAAO,IAAM,kBAakB,GAAG,m  
BAAmB,CAAC;AAcTd,IAAO,IAAM,aAAa,GAAG,cAAc,CAAC;AAC5C,IAAO,IAAM,SAAS,GAAG,WAAW,C  
AAC;AACrC,IAAO,IAAM,SAAS,GAAG,WAAW,CAAC;AACrC,IAAO,IAAM,MAAM,GAAG,QAAQ,CAAC;A  
AC/B,IAAO,IAAM,QAAQ,GAAG,UAAU,CAAC;AACnC,IAAO,IAAM,WAAW,GAAG,YAAy,CAAC;AACxC,I  
AAO,IAAM,MAAM,GAAG,QAAQ,CAAC;AAC/B,IAAO,IAAM,eAAe,GAAG,gBAAgB,CAAC;AAChD,IAAO,I  
AAM,iBAaIB,GAAG,kBAakB,CAAC;AAEpD,IAAO,IAAM,aAAa,GAAG,eAAe,CAAC;AAE7C,IAAO,IAAM,Y  
AAy,GAAG,mBAAmB,CAAC;AAChD,IAAO,IAAM,2BAA2B,GAAG,gCAAgC,CAAC;AAC5E,IAAO,IAAM,2  
BAA2B,GAAG,gCAAgC,CAAC;AAC5E,QAAa,YAAy,GAAG,mBAAmB,CAAC;AAChD,IAAO,IAAM,eAAe,G  
AAG,wBAAwB,CAAC;AACxD,IAAO,IAAM,WAAW,GAAG,iBAaIB,CAAC;AAC7C,QAAa,oBAAoB,GAAG,y  
BAAyB,CAAC;AAE9D,IAAO,IAAM,gBAAgB,GAAG,KAAK,GAAG,YAAy,CAAC;AACrD,IAAO,IAAM,gBA  
AgB,GAAG,UAAU,CAAC;AAE3C,IAAO,IAAM,mBAAmB,GAAG,iBAaIB,CAAC;;ICnCrD;;;;;;;IACa,IAAI,SA  
AS,GAakC,IAAI,CAAC;IACpD,IAAIA,UAAkB,CAAC;AAEvB,aAAgB,gBAAgB;QAC9B,OAAO,SAAS,CAAC  
;IACnB,CAAC;IAGD;QACE,8BAAy,CAAW;YAAIA,UAAQ,GAAG,CAAC,CAAC;SAAE;QAD/B,oBAAoB;YA  
DhCC,aAAQ,CAAC,EAAC,SAAS,EAAE,CAAC,EAAC,OAAO,EAAE,SAAS,EAAE,UAAU,EAAE,gBAAgB,EA  
AC,CAAC,EAAC,CAAC;6CAE3DC,aAAQ;WADZ,oBAAoB,CAEhC;QAAD,2BAAC;KAfD,IAEC;IAED;;;;;;;  
;;;;;;;AAiEA,aAAgB,0BAA0B,CACtC,gBAA0B,EAAE,QAAkB;QACChD,OAAE,  
CAAC,0BAA0B,EAAE,gBAAgB,CAAC;aACxD,QAAQ,CAAC,oBAAoB,iBAAwB;aACrD,OAAO,CAAC,YAA  
Y,EAAE,cAAM,OAAAH,UAAQ,GAAA,CAAC,CAAC;QAC3C,SAAS,GAAGI,QAAgB,CAAC,CAAC,IAAI,EA  
AE,0BAA0B,CAAC,EAAE,QAAQ,CAAC,CAAC;QAC3E,OAAO,oBAAoB,CAAC;IAC9B,CAAC;;ICIGD;;;;;;;A  
AQA,IAQA;;;;;;;AAmEA,aAAgB,4BAA4B,CAAC,cAAqB;QACChE,OAA  
OC,OAAU,CAAC,0BAA0B,EAAE,EAAE,CAAC;aAC5C,QAAQ,CAAC,oBAAoB,iBAAwB;aACrD,OAAO,CAC  
J,YAAy,EACZ;YACE,SAAS;YACT,UAAc,SAA8B;gBAC7BC,eAAO,CAAC,sBAAsB,CAAC;oBAC7B,OAAO,  
EAAE,cAAc;oBACvB,SAAS,EAAE,CAAC,EAAC,OAAO,EAAE,SAAS,EAAE,QAAQ,EAAE,SAAS,EAAC,CA  
AC;iBACvD,CAAC,CAAC;gBACH,OAAOA,eAAO,CAAC,MAAM,CAACJ,aAAQ,CAAC,CAAC;aACjC;SACF,  
CAAC;aACL,IAAI,CAAC;IACZ,CAAC;;ICnGD;;;;;;;OAMG;;ICNH;;;;;;;OAMG;;ICNH;;OAEg;;;;;;;"

Found

in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1047774535\_1591199783.98/0/angular-upgrade-9-0-7-src-zip/bundles/upgrade-static-testing.umd.js.map

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

```
{"version":3,"file":"static__testing.js","sources":["../../../../../packages/upgrade/src/common/src/angular1.ts","../../../../../packages/upgrade/src/common/src/constants.ts","../../../../../packages/upgrade/static/testing/src/create_angular_testing_module.ts","../../../../../packages/upgrade/static/testing/src/create_angularjs_testing_module.ts","../../../../../packages/upgrade/static/testing/testing.ts"],"sourcesContent":["/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n *\n\nexport type Ng1Token = string;\n\nexport type Ng1Expression = string | Function;\n\nexport interface IAnnotatedFunction extends Function {\n // Older versions of `@types/angular` typings extend the global `Function` interface with\n // `$inject?: string[]`, which is not compatible\n\n with `$inject?: ReadonlyArray<string>` (used in\n // latest versions).\n\n $inject?: Function extends {$inject?: string[]}? Ng1Token[]: ReadonlyArray<Ng1Token>;\n\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\n directive(selector: string, factory: IInjectable): IModule;\n\n component(selector: string, component: IComponent): IModule;\n\n controller(name: string, type: IInjectable): IModule;\n\n factory(key: Ng1Token, factoryFn: IInjectable):
```

```

Module;
value(key: Ng1Token, value: any): IModule;
constant(token: Ng1Token, value: any): IModule;
run(a: IInjectable): IModule;
}
export interface ICompileService {
  (element: Element|NodeList|Node[])string,
  transclude?: Function): ILinkFn;
}
export interface ILinkFn {
  (scope: IScope, cloneAttachFn?:
  ICloneAttachFunction,
  options?: ILinkFnOptions): IAugmentedJQuery;
}
export interface
ILinkFnOptions {
  parentBoundTranscludeFn?: Function;
  transcludeControllers?: {[key: string]: any};
  futureParentElement?: Node;
}
export interface IRootScopeService {
  $new(isolate?: boolean): IScope;
  $id:
  string;
  $parent: IScope;
  $root: IScope;
  $watch(exp: Ng1Expression, fn?: (a1?: any, a2?: any) => void):
  Function;
  $on(event: string, fn?: (event?: any, ...args: any[]) => void): Function;
  $destroy(): any;
  $apply(exp?: Ng1Expression): any;
  $digest(): any;
  $evalAsync(exp: Ng1Expression, locals?: any): void;
  $on(event: string, fn?: (event?: any, ...args: any[]) => void): Function;
  $$childTail: IScope;
  $$childHead:
  IScope;
  $$nextSibling: IScope;
  [key: string]: any;
}
export interface IScope extends IRootScopeService
{}
export interface IAngularBootstrapConfig {
  strictDi?: boolean;
}
export interface IDirective
{
  compile?: IDirectiveCompileFn;
  controller?: IController;
  controllerAs?: string;
  bindToController?:
  boolean|{[key: string]: string};
  link?: IDirectiveLinkFn|IDirectivePrePost;
  name?: string;
  priority?:
  number;
  replace?: boolean;
  require?: DirectiveRequireProperty;
  restrict?: string;
  scope?: boolean|{[key:
  string]: string};
  template?: string|Function;
  templateUrl?: string|Function;
  templateNamespace?: string;
  terminal?: boolean;
  transclude?: DirectiveTranscludeProperty;
}
export type DirectiveRequireProperty =
SingleOrListOrMap<string>;
export type DirectiveTranscludeProperty = boolean | 'element' | {[key: string]:
string};
export interface IDirectiveCompileFn {
  (templateElement: IAugmentedJQuery, templateAttributes:
  IAttributes,
  transclude: ITranscludeFunction): IDirectivePrePost;
}
export interface IDirectivePrePost {
  pre?: IDirectiveLinkFn;
  post?: IDirectiveLinkFn;
}
export interface IDirectiveLinkFn {
  (scope:
  IScope, instanceElement: IAugmentedJQuery, instanceAttributes: IAttributes,
  transclude:
  ITranscludeFunction): void;
}
export interface IComponent {
  bindings?: {[key: string]: string};
  controller?:
  string|IInjectable;
  controllerAs?: string;
  require?: DirectiveRequireProperty;
  template?: string|Function;
  templateUrl?: string|Function;
  transclude?: DirectiveTranscludeProperty;
}
export interface IAttributes {
  $observe(attr: string, fn: (v: string) => void): void;
  [key: string]: any;
}
export interface ITranscludeFunction
{
  // If the scope is provided, then the cloneAttachFn must be as well.
  (scope: IScope, cloneAttachFn:
  ICloneAttachFunction): IAugmentedJQuery;
  // If one argument is provided, then it's assumed to be the
  cloneAttachFn.
  (cloneAttachFn?: ICloneAttachFunction): IAugmentedJQuery;
}
export interface
ICloneAttachFunction {
  (clonedElement: IAugmentedJQuery, scope: IScope): any;
}
export type
IAugmentedJQuery
= Node[] & {
  on?: (name: string, fn: () => void) => void;
  data?: (name: string, value?: any) => any;
  text?: ()
=> string;
  inheritedData?: (name: string, value?: any) => any;
  contents?: () => IAugmentedJQuery;
  parent?:
  () => IAugmentedJQuery;
  empty?: () => void;
  append?: (content: IAugmentedJQuery | string) =>
  IAugmentedJQuery;
  controller?: (name: string) => any;
  isolateScope?: () => IScope;
  injector?: () =>
  IInjectorService;
  triggerHandler?: (eventTypeOrObject: string | Event, extraParameters?: any[]) =>
  IAugmentedJQuery;
  remove?: () => void;
  removeData?: () => void;
}
export interface IProvider {
  $get:
  IInjectable;
}
export interface IProvideService {
  provider(token: Ng1Token, 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: IInjectable): void;
}
export interface IParseService {
  (expression: string):
  ICompiledExpression;
}
export interface ICompiledExpression {
  (context: any, locals: any): any;
  assign?:
  (context: any, value: any) => any;
}
export interface IHttpBackendService {
  (method: string, url: string, post?:
  any, callback?: Function, headers?: any, timeout?: number,
  withCredentials?: boolean): void;
}
export
interface ICacheObject {
  put<T>(key: string, value?: T): T;
  get(key: string): any;
}
export interface
ITemplateCacheService extends ICacheObject {}
export interface ITemplateRequestService {
  (template:

```

```

string|any /* TrustedResourceUrl */, ignoreRequestError?: boolean): Promise<string>;\n totalPendingRequests:
number;\n}\nexport type IController = string | IInjectable;\nexport interface IControllerService {\n
(controllerConstructor: IController, locals?: any, later?: any, ident?: any): any;\n (controllerName: string, locals?:
any): any;\n}\n\nexport
interface IInjectorService {\n get(key: string): any;\n has(key: string): boolean;\n}\n\nexport interface
IntervalService {\n (func: Function, delay: number, count?: number, invokeApply?: boolean,\n ...args: any[]):
Promise<any>;\n cancel(promise: Promise<any>): boolean;\n}\n\nexport interface ITestabilityService {\n
findBindings(element: Element, expression: string, opt_exactMatch?: boolean): Element[];\n findModels(element:
Element, expression: string, opt_exactMatch?: boolean): Element[];\n getLocation(): string;\n setLocation(url:
string): void;\n whenStable(callback: Function): void;\n}\n\nexport interface INgModelController {\n $render():
void;\n $isEmpty(value: any): boolean;\n $setValidity(validationErrorKey: string, isValid: boolean): void;\n
$setPristine(): void;\n $setDirty(): void;\n $setUntouched(): void;\n $setTouched(): void;\n
$rollbackViewValue(): void;\n $validate(): void;\n $commitViewValue(): void;\n $setViewValue(value: any,
trigger:
string): void;\n\n $viewValue: any;\n $modelValue: any;\n $parsers: Function[];\n $formatters: Function[];\n
$validators: {[key: string]: Function};\n $asyncValidators: {[key: string]: Function};\n $viewChangeListeners:
Function[];\n $error: Object;\n $pending: Object;\n $untouched: boolean;\n $touched: boolean;\n $pristine:
boolean;\n $dirty: boolean;\n $valid: boolean;\n $invalid: boolean;\n $name: string;\n}\n\nfunction noNg(): never
{\n throw new Error('AngularJS v1.x is not loaded!');\n}\n\nconst noNgElement: typeof angular.element = (( =>
noNg()) as any);\nnoNgElement.cleanData = noNg;\n\nlet angular: {\n bootstrap: (e: Element, modules: (string |
IInjectable)[], config?: IAngularBootstrapConfig) =>\n      IInjectorService,\n module: (prefix: string,
dependencies?: string[]) => IModule,\n element: {\n (e: string | Element | Document | IAugmentedJQuery):
IAugmentedJQuery;\n cleanData: (nodes: Node[] | NodeList) => void;\n },\n injector:
(modules: Array<string|IInjectable>, strictDi?: boolean) => IInjectorService,\n version: {major: number},\n
resumeBootstrap: () => void,\n getTestability: (e: Element) => ITestabilityService\n} = {\n bootstrap: noNg,\n
module: noNg,\n element: noNgElement,\n injector: noNg,\n version: undefined as any,\n resumeBootstrap:
noNg,\n getTestability: noNg\n};\n\ntry {\n if (window.hasOwnProperty('angular')) {\n angular =
(<any>window).angular;\n }\n} catch {\n // ignore in CJS mode.\n}\n\n/**\n * @deprecated Use
`setAngularJSGlobal` instead.\n *\n * @publicApi\n */\nexport function setAngularLib(ng: any): void {\n
setAngularJSGlobal(ng);\n}\n\n/**\n * @deprecated Use `getAngularJSGlobal` instead.\n *\n * @publicApi\n
*/\nexport function getAngularLib(): any {\n return getAngularJSGlobal();\n}\n\n/**\n * Resets the AngularJS
global.\n *\n * Used when AngularJS is loaded lazily, and not available on `window`.\n *\n * @publicApi\n
*/\nexport function setAngularJSGlobal(ng: any):
void {\n angular = ng;\n}\n\n/**\n * Returns the current AngularJS global.\n *\n * @publicApi\n */\nexport
function getAngularJSGlobal(): any {\n return angular;\n}\n\nexport const bootstrap: typeof angular.bootstrap = (e,
modules, config?) =>\n angular.bootstrap(e, modules, config);\n\n// Do not declare as `module` to avoid webpack
bug\n// (see https://github.com/angular/angular/issues/30050).\nexport const module_: typeof angular.module =
(prefix, dependencies?) =>\n angular.module(prefix, dependencies);\n\nexport const element: typeof
angular.element = (e => angular.element(e)) as typeof angular.element;\nelement.cleanData = nodes =>
angular.element.cleanData(nodes);\n\nexport const injector: typeof angular.injector =\n (modules:
Array<string|IInjectable>, strictDi?: boolean) => angular.injector(modules, strictDi);\n\nexport const
resumeBootstrap: typeof angular.resumeBootstrap = () => angular.resumeBootstrap();\n\nexport const
getTestability: typeof angular.getTestability
= e => angular.getTestability(e);\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\nexport const $COMPILE = '$compile';\nexport const $CONTROLLER =
'$controller';\nexport const $DELEGATE = '$delegate';\nexport const $EXCEPTION_HANDLER =
'$exceptionHandler';\nexport const $HTTP_BACKEND = '$httpBackend';\nexport const $INJECTOR =

```

```

'$injector';\nexport const $INTERVAL = '$interval';\nexport const $PARSE = '$parse';\nexport const $PROVIDE =
'$provide';\nexport const $ROOT_SCOPE = '$rootScope';\nexport const $$SCOPE = '$scope';\nexport const
$TEMPLATE_CACHE = '$templateCache';\nexport const $TEMPLATE_REQUEST =
'$templateRequest';\n\nexport const $$TESTABILITY = '$$testability';\n\nexport const COMPILER_KEY =
'$$angularCompiler';\nexport const DOWNGRADED_MODULE_COUNT_KEY =
'$$angularDowngradedModuleCount';\nexport const GROUP_PROJECTABLE_NODES_KEY
= '$$angularGroupProjectableNodes';\nexport const INJECTOR_KEY = '$$angularInjector';\nexport const
LAZY_MODULE_REF = '$$angularLazyModuleRef';\nexport const NG_ZONE_KEY =
'$$angularNgZone';\nexport const UPGRADE_APP_TYPE_KEY = '$$angularUpgradeAppType';\n\nexport const
REQUIRE_INJECTOR = '?^^' + INJECTOR_KEY;\nexport const REQUIRE_NG_MODEL =
'?ngModel';\n\nexport const UPGRADE_MODULE_NAME = '$$UpgradeModule';\n"/**\n * @license\n *
Copyright Google Inc. All Rights Reserved.\n * \n * Use of this source code is governed by an MIT-style license that
can be\n * found in the LICENSE file at https://angular.io/license\n * \n\nimport { Injector, NgModule, Type } from
'@angular/core';\nimport * as angular from '../././src/common/src/angular1';\nimport { $INJECTOR,
INJECTOR_KEY, UPGRADE_APP_TYPE_KEY } from '../././src/common/src/constants';\nimport
{ UpgradeAppType } from '../././src/common/src/util';\n\nlet $injector: angular.IInjectorService|null = null;\n\nlet
injector:
\n\nexport function $injectorFactory() {\n  return $injector;\n}\n\n@NgModule({providers: [{provide:
$INJECTOR, useFactory: $injectorFactory}]}))\n\nexport class AngularTestingModule {\n  constructor(i: Injector) {\n
injector = i; }\n}\n\n/**\n * A helper function to use when unit testing Angular services that depend upon upgraded
AngularJS\n * services.\n * This function returns an `NgModule` decorated class that is configured to wire up
the Angular\n * and AngularJS injectors without the need to actually bootstrap a hybrid application.\n * This makes
it simpler and faster to unit test services.\n * Use the returned class as an `import` when configuring the
`TestBed`.\n * In the following code snippet, we are configuring the TestBed with two imports.\n * The
`Ng2AppModule` is the Angular part of our hybrid application and the `ng1AppModule` is the\n * AngularJS part.\n
*\n * <code-example path="upgrade/static/ts/full/module.spec.ts" region="angular-setup"></code-example>\n
*\n * Once this is done we can get hold of services via the Angular `Injector` as normal.\n * Services that are (or
have dependencies on) an upgraded AngularJS service, will be instantiated\n * as needed by the AngularJS
`$injector`.\n *\n * In the following code snippet, `HeroesService` is an Angular service that depends upon an\n *
AngularJS service, `titleCase`.\n *\n * <code-example path="upgrade/static/ts/full/module.spec.ts"
region="angular-spec"></code-example>\n *\n * <div class="alert is-important">\n *\n * This helper is for
testing services not Components.\n * For Component testing you must still bootstrap a hybrid app. See
`UpgradeModule` or\n * `downgradeModule` for more information.\n *\n * </div>\n *\n * <div class="alert is-
important">\n *\n * The resulting configuration does not wire up AngularJS digests to Zone hooks. It is the\n *
responsibility of the test writer to call `rootScope.$apply`, as necessary, to trigger\n * AngularJS handlers of
async events from Angular.\n *\n * </div>\n *\n * <div class="alert is-important">\n *\n * The helper sets up
global variables to hold the shared Angular and AngularJS injectors.\n *\n * Only call this helper once per spec.\n
** Do not use `createAngularTestingModule` in the same spec as `createAngularJSTestingModule`.\n *\n *
</div>\n *\n * Here is the example application and its unit tests that use `createAngularTestingModule`\n * and
`createAngularJSTestingModule`.\n *\n * <code-tabs>\n * <code-pane header="module.spec.ts"
path="upgrade/static/ts/full/module.spec.ts"></code-pane>\n * <code-pane header="module.ts"
path="upgrade/static/ts/full/module.ts"></code-pane>\n * </code-tabs>\n *\n *\n * @param angularJSMODULES a
collection of the names of AngularJS modules to include in the\n * configuration.\n * @param [strictDi] whether the
AngularJS injector should have `strictDI` enabled.\n *\n * @publicApi\n */\n\nexport function
createAngularTestingModule(\n  angularJSMODULES:
\n  string[], strictDi?: boolean): Type<any> {\n  angular.module_('$$angularJSTestingModule', angularJSMODULES)\n
.constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Static)\n  .factory(INJECTOR_KEY, () =>
injector);\n  $injector = angular.injector(['ng', '$$angularJSTestingModule'], strictDi);\n  return

```

AngularTestingModule;}\n"/\*\*\n \* @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 \*\nimport {Injector} from '@angular/core';\nimport { TestBed } from '@angular/core/testing';\nimport \* as ng from './../src/common/src/angular1';\nimport { \$INJECTOR, INJECTOR\_KEY, UPGRADE\_APP\_TYPE\_KEY } from './../src/common/src/constants';\nimport { UpgradeAppType } from './../src/common/src/util';\n\n/\*\*\n \* A helper function to use when unit testing AngularJS services that depend upon downgraded Angular\n \* services.\n \*\n \* This function returns an AngularJS module that is configured to wire up the AngularJS and Angular\n \* injectors without the need to actually bootstrap a hybrid application.\n \* This makes it simpler and faster to unit test services.\n \*\n \* Use the returned AngularJS module in a call to\n \*

[angular.mocks.module`](<https://docs.angularjs.org/api/ngMock/function/angular.mock.module>) to\n \* include this module in the unit test injector.\n \*\n \* In the following code snippet, we are configuring the `\$injector` with two modules:\n \* The AngularJS `ng1AppModule`, which is the AngularJS part of our hybrid application and the\n \* `Ng2AppModule`, which is the Angular part.\n \*\n \* `example path="upgrade/static/ts/full/module.spec.ts"\n * region="angularjs-setup"`\n \*\n \* Once this is done we can get hold of services via the AngularJS `\$injector` as normal.\n \* Services that are (or have dependencies on) a downgraded Angular service, will be instantiated as\n \* needed by the Angular

root `Injector`.\n \*\n \* In the following code snippet, `heroesService` is a downgraded Angular service that we are\n \* accessing from AngularJS.\n \*\n \* `example path="upgrade/static/ts/full/module.spec.ts"\n * region="angularjs-spec"`\n \*\n \* 

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

\n \*\n \* 

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

\n \*\n \* 

\n \* The helper sets up global variables to hold the shared Angular and AngularJS injectors.\n \* Only call this helper once per spec.\n \*

\*\* Do not use `createAngularJSTestingModule` in the same spec as `createAngularTestingModule`.\n \*\n \* `example path="upgrade/static/ts/full/module.spec.ts"\n * region="angularjs-spec"`\n \*\n \* Here is the example application and its unit tests that use `createAngularTestingModule` and `createAngularJSTestingModule`.\n \*\n \* `example path="upgrade/static/ts/full/module.spec.ts"\n * region="angularjs-spec"`\n \*\n \* `example path="upgrade/static/ts/full/module.ts"\n * region="angularjs-spec"`\n \*\n \* @param angularModules a collection of Angular modules to include in the configuration.\n \*\n \* @publicApi\n \*/\nexport function createAngularJSTestingModule(angularModules: any[]): string {\n return ng.module\_('\$angularJSTestingModule', [])\n .constant(UPGRADE\_APP\_TYPE\_KEY, UpgradeAppType.Static)\n .factory(\n INJECTOR\_KEY, [\n \$INJECTOR, (\n injector: ng.IInjectorService) => {\n

TestBed.configureTestingModule({\n imports:\n angularModules,\n providers: [{provide: \$INJECTOR, useValue: injector}])\n });\n return TestBed.inject(Injector);\n }\n }\n .name;\n"/\*\*\n \* Generated bundle index. Do not edit.\n \*/\nexport \* from './index';\nexport { module as Éµangular\_packages\_upgrade\_static\_testing\_testing\_a } from './../src/common/src/angular1';\nexport { INJECTOR\_KEY as Éµangular\_packages\_upgrade\_static\_testing\_testing\_d, UPGRADE\_APP\_TYPE\_KEY as Éµangular\_packages\_upgrade\_static\_testing\_testing\_b } from './../src/common/src/constants';\nexport { UpgradeAppType as Éµangular\_packages\_upgrade\_static\_testing\_testing\_c } from './../src/common/src/util';\n};\n";\n"names":["injector","angular.module\_","angular.injector","ng.module\_"],"mappings":";\n;AAAA;AAAA;AA0NA,SAAS,IAAI;IACX,MAAM,IAAI,KAAK,CAAC,+BAA+B,CAAC,CAAC;CACID;AAED,MAAM,WAAW,IAA4B,MAAM,IAAI,EAAE,CAAQ,CAAC;AACIE,WAAW,CAAC,SAAS,GAAG,IAAI,CAAC;AAE7B,IAAI,OAAO,GAYP;IACF,SAAS,EAAE,IAAI;IACf,MAAM,EAAE,IAAI;IACZ,OAAO,EAAE,WAAW;IACpB,QAAQ,EAAE,IAAI;IACd,OAAO,EAAE,SAAG;IACzB,eAAe,EAAE,IAAI;IACrB,cAAc,EAAE,IAAI;CA

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R,EAaQqgB,0CAA4ChP,EAepDhP,OAAOob,eAAezd,EAAS,aAAc,CAAE4D,OAAO","sourcesContent":["/\*\*\n  
 \* @license Angular v9.0.7\n \* (c) 2010-2020 Google LLC. https://angular.io\n \* License: MIT\n \* ^\n\n(function  
(global, factory) {\n typeof exports === 'object' && typeof module !== 'undefined' ? factory(exports,  
require('@angular/core'), require('@angular/platform-browser')) :\n typeof define === 'function' && define.amd ?  
define('@angular/upgrade/static', ['exports', '@angular/core', '@angular/platform-browser'], factory) :\n (global =  
global || self, factory((global.ng = global.ng || {}), global.ng.upgrade = global.ng.upgrade || {}),  
global.ng.upgrade.static = {}), global.ng.core,  
global.ng.platformBrowser));\n}(this, (function (exports, core, platformBrowser) { 'use strict';\n\n /\*\*\n \*  
 \* @license\n \* Copyright Google Inc. All Rights Reserved.\n \* Use of this source code is governed by an  
MIT-style license that can be\n \* found in the LICENSE file at https://angular.io/license\n \* ^\n function  
noNg() {\n throw new Error('AngularJS v1.x is not loaded!');\n }\n var noNgElement = (function () { return  
noNg(); });\n noNgElement.cleanData = noNg;\n var angular = {\n bootstrap: noNg,\n module: noNg,\n element: noNgElement,\n injector: noNg,\n version: undefined,\n resumeBootstrap: noNg,\n getTestability: noNg\n };\n try {\n if (window.hasOwnProperty('angular')) {\n angular =  
window.angular;\n }\n } catch (\_a) {\n // ignore in CJS mode.\n }\n /\*\*\n \* @deprecated Use  
'setAngularJSGlobal' instead.\n \* ^\n \* @publicApi\n  
 \* ^\n function setAngularLib(ng) {\n setAngularJSGlobal(ng);\n }\n /\*\*\n \* @deprecated Use  
'getAngularJSGlobal' instead.\n \* ^\n \* @publicApi\n \* ^\n function getAngularLib() {\n return

```

getAngularJSGlobal();\n } \n /**\n * Resets the AngularJS global.\n * \n * Used when AngularJS is
loaded lazily, and not available on `window`.\n * \n * @publicApi\n */\n function setAngularJSGlobal(ng)
{\n   angular = ng;\n } \n /**\n * Returns the current AngularJS global.\n * \n * @publicApi\n */\n
function getAngularJSGlobal() {\n   return angular;\n } \n var bootstrap = function (e, modules, config) {\n
return angular.bootstrap(e, modules, config);\n }; \n // Do not declare as `module` to avoid webpack bug\n //
(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 /*!
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NON-INFRINGEMENT.\r\n\r\n See the Apache Version 2.0 License for specific language governing
permissions\r\n and limitations under the License.\r\n
*****\r\n\n /* global
Reflect, Promise *\r\n\r\n var extendStatics = function(d, b) {\r\n   extendStatics = Object.setPrototypeOf ||\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\n 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\n 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\n 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\n 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\n } \r\n\r\n function
__param(paramIndex, decorator) {\r\n   return function (target, key) { decorator(target, key, paramIndex); } \r\n
} \r\n\r\n function __metadata(metadataKey, metadataValue) {\r\n   if (typeof Reflect === "object" && typeof
Reflect.metadata === "function") return Reflect.metadata(metadataKey, metadataValue); \r\n } \r\n\r\n 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 step(result) { result.done ?
resolve(result.value) : new P(function (resolve) { resolve(result.value); }).then(fulfilled, rejected); } \r\n
step((generator = generator.apply(thisArg, _arguments || [])).next()); \r\n   }); \r\n } \r\n\r\n function

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__generator(thisArg, body) {\r\n    var _ = { label: 0, sent: function() { if (t[0] & 1) throw t[1]; return t[1]; }, trys:
[], ops: [] }, f, y, t, g;\r\n    return g = { next: verb(0), "throw": verb(1), "return": verb(2) }, typeof Symbol ===
"function" && (g[Symbol.iterator] = function() { return this; });\r\n    function verb(n) { return function (v) {
return step([n, v]); }; }\r\n    function step(op) {\r\n        if (f) throw new TypeError("Generator is already
executing.");\r\n        while (_) try {\r\n            if (f = 1, y && (t = op[0] & 2 ? y["return"] : op[0] ? y["throw"] || ((t =
y["return"]) && t.call(y, 0) : y.next) && !(t = t.call(y, op[1])).done) return t;\r\n            if (y = 0, t) op = [op[0]
& 2, t.value];\r\n            switch (op[0]) {\r\n                case 0: case 1: t = op; break;\r\n                case 4:
_.label++; return { value: op[1], done: false }; \r\n                case 5: _.label++; y = op[1]; op = [0]; continue;\r\n                case 7: op = _.ops.pop(); _.trys.pop(); continue;\r\n                default:\r\n                    if (!(t = _.trys, t =
t.length > 0 && t[t.length - 1]) && (op[0] === 6 || op[0] === 2)) { _ = 0; continue; } \r\n                    if (op[0] ===
3 && (!(t || (op[1] > t[0] && op[1] < t[3]))) { _.label = op[1]; break; } \r\n                    if (op[0] === 6 && _.label
< t[1]) { _.label = t[1]; t = op; break; } \r\n                    if (t && _.label
< t[2]) { _.label = t[2]; _.ops.push(op); break; } \r\n                    if (t[2]) _.ops.pop();\r\n                    _.trys.pop(); continue;\r\n            } \r\n            op = body.call(thisArg, _);\r\n        } catch (e) { op = [6, e]; y =
0; } finally { f = t = 0; } \r\n        if (op[0] & 5) throw op[1]; return { value: op[0] ? op[1] : void 0, done: true }; }\r\n
}\r\n}\r\n\r\nfunction __exportStar(m, exports) {\r\n    for (var p in m) if (!exports.hasOwnProperty(p))
exports[p] = m[p];\r\n}\r\n\r\nfunction __values(o) {\r\n    var m = typeof Symbol === "function" &&
o[Symbol.iterator], i = 0;\r\n    if (m) return m.call(o);\r\n    return {\r\n        next: function () {\r\n            if
(o && i >= o.length) o = void 0;\r\n            return { value: o && o[i++], done: !o }; }\r\n    };\r\n}\r\n\r\nfunction __read(o, n) {\r\n    var m = typeof Symbol === "function" && o[Symbol.iterator];\r\n    if (!m) return o;\r\n    var i = m.call(o), r, ar = [], e;\r\n    try {\r\n        while ((n === void 0 || n-- > 0)
&& !(r = i.next()).done) ar.push(r.value);\r\n    } catch (error) { e = { error: error }; }\r\n    finally {\r\n        try {\r\n            if (r && !r.done && (m = i["return"])) m.call(i);\r\n        } finally { if (e) throw
e.error; }\r\n    }\r\n    return ar;\r\n}\r\n\r\nfunction __spread() {\r\n    for (var ar = [], i = 0; i <
arguments.length; i++)\r\n        ar = ar.concat(__read(arguments[i]));\r\n    return ar;\r\n}\r\n\r\nfunction
__spreadArrays() {\r\n    for (var s = 0, i = 0, il = arguments.length; i < il; i++) s += arguments[i].length;\r\n    for (var r = Array(s), k = 0, i = 0; i < il; i++)\r\n        for (var a = arguments[i], j = 0, jl = a.length; j < jl; j++,
k++)\r\n            r[k] = a[j];\r\n    return r;\r\n}\r\n\r\nfunction __await(v) {\r\n    return this instanceof __await ? (this.v = v, this) : new __await(v);\r\n}\r\n\r\nfunction __asyncGenerator(thisArg, _arguments, generator) {\r\n    if (!Symbol.asyncIterator) throw
new TypeError("Symbol.asyncIterator is not defined.");\r\n    var g = generator.apply(thisArg, _arguments || []),
i, q = [];\r\n    return i = { }, verb("next"), verb("throw"), verb("return"), i[Symbol.asyncIterator] = function ()
{ return this; }, i;\r\n    function verb(n) { if (g[n]) i[n] = function (v) { return new Promise(function (a, b) {
q.push([n, v, a, b]) > 1 || resume(n, v); }); }; }\r\n    function resume(n, v) { try { step(g[n](v)); } catch (e) {
settle(q[0][3], e); } }\r\n    function step(r) { r.value instanceof __await ? Promise.resolve(r.value.v).then(fulfill,
reject) : settle(q[0][2], r); }\r\n    function fulfill(value) { resume("next", value); }\r\n    function reject(value)
{ resume("throw",
value); }\r\n    function settle(f, v) { if (f(v), q.shift(), q.length) resume(q[0][0], q[0][1]); }\r\n}\r\n\r\nfunction __asyncDelegator(o) {\r\n    var i, p;\r\n    return i = { }, verb("next"), verb("throw"), function (e) {
throw e; }, verb("return"), i[Symbol.iterator] = function () { return this; }, i;\r\n    function verb(n, f) { i[n] =
o[n] ? function (v) { return (p = !p) ? { value: __await(o[n](v)), done: n === "return" } : f ? f(v) : v; } : f; }\r\n}\r\n\r\nfunction __asyncValues(o) {\r\n    if (!Symbol.asyncIterator) throw new
TypeError("Symbol.asyncIterator is not defined.");\r\n    var m = o[Symbol.asyncIterator], i;\r\n    return m ?
m.call(o) : (o = typeof __values === "function" ? __values(o) : o[Symbol.iterator](), i = { }, verb("next"),
verb("throw"), verb("return"), i[Symbol.asyncIterator] = function () { return this; }, i);\r\n    function verb(n) {
i[n] = o[n] && function (v) { return new Promise(function

```



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(resolve, reject) { v = o[n](v), settle(resolve, reject, v.done, v.value); }); }; }
function settle(resolve, reject,
d, v) { Promise.resolve(v).then(function(v) { resolve({ value: v, done: d }); }, reject); }
function
__makeTemplateObject(cooked, raw) {
  if (Object.defineProperty) { Object.defineProperty(cooked, "raw",
{ value: raw }); } else { cooked.raw = raw; }
  return cooked;
}
function __importStar(mod)
{
  if (mod && mod.__esModule) return mod;
  var result = {};
  if (mod != null) for (var k in
mod) if (Object.hasOwnProperty.call(mod, k)) result[k] = mod[k];
  result.default = mod;
  return
result;
}
function __importDefault(mod) {
  return (mod && mod.__esModule) ? mod : {
default: mod };
}
/**
 * @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
$COMPILE = '$compile';
var $CONTROLLER = '$controller';
var $DELEGATE = '$delegate';
var
$EXCEPTION_HANDLER = '$exceptionHandler';
var $HTTP_BACKEND = '$httpBackend';
var
$INJECTOR = '$injector';
var $INTERVAL = '$interval';
var $PARSE = '$parse';
var $PROVIDE =
'$provide';
var $ROOT_SCOPE = '$rootScope';
var $SCOPE = '$scope';
var $TEMPLATE_CACHE =
'$templateCache';
var $TEMPLATE_REQUEST = '$templateRequest';
var $TESTABILITY =
'$testability';
var COMPILER_KEY = '$$angularCompiler';
var
DOWNGRADED_MODULE_COUNT_KEY = '$$angularDowngradedModuleCount';
var
GROUP_PROJECTABLE_NODES_KEY = '$$angularGroupProjectableNodes';
var INJECTOR_KEY =
'$$angularInjector';
var LAZY_MODULE_REF = '$$angularLazyModuleRef';
var NG_ZONE_KEY =
'$$angularNgZone';
var UPGRADE_APP_TYPE_KEY = '$$angularUpgradeAppType';
var
REQUIRE_INJECTOR = '?^' + INJECTOR_KEY;
var REQUIRE_NG_MODEL = '?ngModel';
var
UPGRADE_MODULE_NAME = '$$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
 */
/**
 * A `PropertyBinding` represents a mapping
between a property name
 * and an attribute name. It is parsed from a string of the form
 * `"prop: attr"`; or
simply `"propAndAttr"` where the property
 * and attribute have the same identifier.
 */
var
PropertyBinding = /** @class */ (function () {
function PropertyBinding(prop, attr) {
this.prop =
prop;
this.attr = attr;
this.parseBinding();
}
PropertyBinding.prototype.parseBinding =
function () {
this.bracketAttr = "[" +
this.attr + "]";
this.parenAttr = "(" + this.attr + ")";
this.bracketParenAttr = "[" + this.attr +
"]";
var capitalAttr = this.attr.charAt(0).toUpperCase() + this.attr.substr(1);
this.onAttr = "on" +
capitalAttr;
this.bindAttr = "bind" + capitalAttr;
this.bindonAttr = "bindon" + capitalAttr;
};
return PropertyBinding;
}());
/**
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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
 */
var DIRECTIVE_PREFIX_REGEXP = /^(?:x|data):[-_]/i;
var
DIRECTIVE_SPECIAL_CHARS_REGEXP = /[:\-\_]+(\/)/g;
function onError(e) {
// TODO: (misko):
We seem to not have a stack trace here!
if (console.error) {
console.error(e, e.stack);
}
}
else {
// tslint:disable-next-line:no-console
console.log(e, e.stack);
}
throw e;
}
function
controllerKey(name) {
return '$' + name + 'Controller';
}
function directiveNormalize(name) {
return name.replace(DIRECTIVE_PREFIX_REGEXP, "")
.replace(DIRECTIVE_SPECIAL_CHARS_REGEXP, function (_, letter) { return letter.toUpperCase(); });
}
function getTypeName(type) {
// Return the name of the type or the first line of its stringified version.
return type.overriddenName || type.name || type.toString().split("\n")[0];
}
function
getDowngradedModuleCount($injector) {
return $injector.has(DOWNGRADED_MODULE_COUNT_KEY)
? $injector.get(DOWNGRADED_MODULE_COUNT_KEY) : 0;
}
function
getUpgradeAppType($injector) {
return $injector.has(UPGRADE_APP_TYPE_KEY) ?
$injector.get(UPGRADE_APP_TYPE_KEY) : 0 /* None */;
}
function isFunction(value)

```

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    {\n    return typeof value === 'function';\n    }\n    function validateInjectionKey($injector, downgradedModule,
injectionKey, attemptedAction) {\n    var upgradeAppType = getUpgradeAppType($injector);\n    var
downgradedModuleCount = getDowngradedModuleCount($injector);\n    // Check for common errors.\n
switch (upgradeAppType) {\n    case 1 /* Dynamic */:\n    case 2 /* Static */:\n    if
(downgradedModule) {\n    throw new Error("\Error while \" + attemptedAction + \": 'downgradedModule'
unexpectedly specified.\n\n" +\n    'You should not specify a value for \''downgradedModule\'', unless
you are downgrading ' +\n    'more than one Angular module (via \''downgradeModule()\').');\n
}\n    break;\n    case 3 /* Lite */:\n    if (!downgradedModule && (downgradedModuleCount
>= 2)) {\n    throw new Error("\Error
while \" + attemptedAction + \": 'downgradedModule' not specified.\n\n" +\n    'This application
contains more than one downgraded Angular module, thus you need to ' +\n    'always specify
'\downgradedModule\' when downgrading components and injectables.);\n    }\n    if
(!$injector.has(injectionKey)) {\n    throw new Error("\Error while \" + attemptedAction + \": Unable to
find the specified downgraded module.\n\n" +\n    'Did you forget to downgrade an Angular module or
include it in the AngularJS ' +\n    'application?');\n    }\n    break;\n    default:\n
throw new Error("\Error while \" + attemptedAction + \": Not a valid '@angular/upgrade' application.\n\n" +\n
'Did you forget to downgrade an Angular module or include it in the AngularJS ' +\n
'application?');\n
}\n    }\n    var Deferred = /** @class */ (function () {\n    function Deferred() {\n    var _this = this;\n
this.promise = new Promise(function (res, rej) {\n    _this.resolve = res;\n    _this.reject = rej;\n
});\n    }\n    return Deferred;\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    */\n    function supportsNgModel(component) {\n    return typeof component.writeValue ===
'function' &&\n    typeof component.registerOnChange === 'function';\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    */\n    function hookupNgModel(ngModel, component) {\n    if (ngModel
&& supportsNgModel(component)) {\n
ngModel.$render = function () { component.writeValue(ngModel.$viewValue); };
component.registerOnChange(ngModel.$setViewValue.bind(ngModel));
if (typeof
component.registerOnTouched === 'function') {\n
component.registerOnTouched(ngModel.$setTouched.bind(ngModel));\n    }\n    }\n    }\n    /**\n    * Test
two values for strict equality, accounting for the fact that `NaN !== NaN`.\n    */\n    function strictEquals(val1,
val2) {\n    return val1 === val2 || (val1 !== val1 && val2 !== val2);\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 INITIAL_VALUE =
{\n    __UNINITIALIZED__: true\n    };\n    var DowngradeComponentAdapter = /** @class */ (function () {\n
function DowngradeComponentAdapter(element, attrs, scope,
ngModel, parentInjector, $injector, $compile, $parse, componentFactory, wrapCallback) {\n    this.element =
element;\n    this.attrs = attrs;\n    this.scope = scope;\n    this.ngModel = ngModel;\n
this.parentInjector = parentInjector;\n    this.$injector = $injector;\n    this.$compile = $compile;\n
this.$parse = $parse;\n    this.componentFactory = componentFactory;\n    this.wrapCallback =
wrapCallback;\n    this.implementsOnChanges = false;\n    this.inputChangeCount = 0;\n
this.inputChanges = {};\n    this.componentScope = scope.$new();\n    }\n    DowngradeComponentAdapter.prototype.compileContents = function () {\n    var _this = this;\n    var
compiledProjectableNodes = [];\n    var projectableNodes = this.groupProjectableNodes();\n    var linkFns
= projectableNodes.map(function (nodes) { return _this.$compile(nodes);
});\n    this.element.empty();\n    linkFns.forEach(function (linkFn) {\n    linkFn(_this.scope,
function (clone) {\n    compiledProjectableNodes.push(clone);\n

```

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_this.element.append(clone);\n        });\n        });\n        return compiledProjectableNodes;\n        });\n\nDowngradeComponentAdapter.prototype.createComponent = function (projectableNodes) {\n        var providers\n= [{ provide: $$SCOPE, useValue: this.componentScope }];\n        var childInjector = core.Injector.create({\nproviders: providers, parent: this.parentInjector, name: 'DowngradeComponentAdapter' });\n\nthis.componentRef =\n        this.componentFactory.create(childInjector, projectableNodes, this.element[0]);\n        this.viewChangeDetector = this.componentRef.injector.get(core.ChangeDetectorRef);\n\nthis.changeDetector = this.componentRef.changeDetectorRef;\n        this.component =\nthis.componentRef.instance;\n\n        // testability hook is commonly added during component bootstrap in\n        //\npackages/core/src/application_ref.bootstrap()\n        // in downgraded application, component creation will take\nplace here as well as adding the\n        // testability hook.\n        var testability =\nthis.componentRef.injector.get(core.Testability, null);\n        if (testability) {\n\nthis.componentRef.injector.get(core.TestabilityRegistry)\n\n        .registerApplication(this.componentRef.location.nativeElement, testability);\n        }\n\nhookupNgModel(this.ngModel, this.component);\n        });\n\nDowngradeComponentAdapter.prototype.setupInputs = function (manuallyAttachView, propagateDigest) {\n\nvar _this = this;\n        if (propagateDigest === void 0) { propagateDigest = true; }\n        var attrs = this.attrs;\n\n        var inputs = this.componentFactory.inputs || [];\n\n        var _loop_1 = function (i) {\n                var input = new PropertyBinding(inputs[i].propName,\ninputs[i].templateName);\n                var expr = null;\n                if (attrs.hasOwnProperty(input.attr)) {\n\nvar observeFn_1 = (function (prop) {\n                var prevValue = INITIAL_VALUE;\n                return\nfunction (currValue) {\n                // Initially, both `$observe()` and `$watch()` will call this function.\n                if (!strictEquals(prevValue, currValue)) {\n                if (prevValue === INITIAL_VALUE) {\n                prevValue = currValue;\n                }\n                _this.updateInput(prop,\nprevValue, currValue);\n                prevValue = currValue;\n                }\n                });\n                })(input.prop);\n                attrs.$observe(input.attr,\nobserveFn_1);\n                // Use `$watch()` (in addition to `$observe()`) in order to initialize the input in time\n                // for `ngOnChanges()`. This is necessary if we are already in a `digest`, which means that\n                //\n`ngOnChanges()` (which is called by a watcher) will run before the `$observe()` callback.\n                var\nunwatch_1 = this._1.componentScope.$watch(function () {\n                unwatch_1();\n                unwatch_1\n= null;\n                observeFn_1(attrs[input.attr]);\n                });\n                }\n                else if\n(attrs.hasOwnProperty(input.bindAttr)) {\n                expr = attrs[input.bindAttr];\n                }\n                else if\n(attrs.hasOwnProperty(input.bracketAttr)) {\n                expr = attrs[input.bracketAttr];\n                }\n                else if (attrs.hasOwnProperty(input.bindonAttr)) {\n                expr = attrs[input.bindonAttr];\n                }\n                else if (attrs.hasOwnProperty(input.bracketParenAttr)) {\n                expr =\nattrs[input.bracketParenAttr];\n                }\n                if (expr !== null) {\n                var watchFn = (function\n(prop) { return function (currValue, prevValue) {\n                return _this.updateInput(prop, prevValue,\ncurrValue);\n                }; })(input.prop);\n                this._1.componentScope.$watch(expr, watchFn);\n                }\n                });\n                var this_1 = this;\n                for (var i = 0; i < inputs.length; i++) {\n                _loop_1(i);\n                }\n                // Invoke `ngOnChanges()` and Change Detection (when necessary)\n                var detectChanges =\nfunction () { return _this.changeDetector.detectChanges(); };\n                var prototype =\nthis.componentFactory.componentType.prototype;\n                this.implementsOnChanges = !(prototype &&\nprototype.ngOnChanges);\n\n                this.componentScope.$watch(function () { return _this.inputChangeCount; }, this.wrapCallback(function ()\n{\n                // Invoke `ngOnChanges()`\n                if (_this.implementsOnChanges) {\n                var\ninputChanges = _this.inputChanges;\n                _this.inputChanges = {};\n\n                _this.component.ngOnChanges(inputChanges);\n                }\n                _this.viewChangeDetector.markForCheck();\n                // If opted out of propagating digests, invoke change

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detection when inputs change.\n        if (!propagateDigest) {\n            detectChanges();\n        }\n    });\n    // If not opted out of propagating digests, invoke change detection on every digest\n    if\n    (propagateDigest) {\n        this.componentScope.$watch(this.wrapCallback(detectChanges));\n    }\n    // If necessary, attach the view so that it will be dirty-checked.\n    // (Allow time for the initial input values to be set and `ngOnChanges` to be called.)\n    if\n    (manuallyAttachView || !propagateDigest) {\n        var unwatch_2 = this.componentScope.$watch(function ()\n        {\n            unwatch_2();\n            unwatch_2 = null;\n            var appRef =\n            _this.parentInjector.get(core.ApplicationRef);\n            appRef.attachView(_this.componentRef.hostView);\n        });\n    }\n    DowngradeComponentAdapter.prototype.setupOutputs = function () {\n    var attrs = this.attrs;\n    var outputs = this.componentFactory.outputs || [];\n    for (var j = 0; j <\n    outputs.length; j++) {\n        var output = new PropertyBinding(outputs[j].propName,\n        outputs[j].templateName);\n        var bindonAttr = output.bindonAttr.substring(0, output.bindonAttr.length -\n        6);\n        var bracketParenAttr = \"[\" + output.bracketParenAttr.substring(2,\n        output.bracketParenAttr.length - 8) + \"]\";\n        // order below is important - first update bindings then\n        evaluate expressions\n        if (attrs.hasOwnProperty(bindonAttr)) {\n            this.subscribeToOutput(output, attrs[bindonAttr], true);\n        }\n        if\n        (attrs.hasOwnProperty(bracketParenAttr)) {\n            this.subscribeToOutput(output, attrs[bracketParenAttr],\n            true);\n        }\n        if (attrs.hasOwnProperty(output.onAttr)) {\n            this.subscribeToOutput(output, attrs[output.onAttr]);\n        }\n        if\n        (attrs.hasOwnProperty(output.parenAttr)) {\n            this.subscribeToOutput(output, attrs[output.parenAttr]);\n        }\n    }\n    DowngradeComponentAdapter.prototype.subscribeToOutput = function (output,\n    expr, isAssignment) {\n        var _this = this;\n        if (isAssignment === void 0) { isAssignment =\n        false; }\n        var getter = this.$parse(expr);\n        var setter = getter.assign;\n        if (isAssignment &&\n        !setter) {\n            throw new Error(\"Expression \" + expr + \" is not assignable!\");\n        }\n        var\n        emitter = this.component[output.prop];\n        if (emitter) {\n            emitter.subscribe({\n                next:\n                isAssignment ? function (v) { return setter(_this.scope, v); } :\n                function (v) { return\n                getter(_this.scope, { '$event': v }); }\n            });\n        }\n        else {\n            throw new Error(\"Missing\n            emitter \" + output.prop + \" on component \" + getTypeName(this.componentFactory.componentType) + \"!\");\n        }\n    }\n    DowngradeComponentAdapter.prototype.registerCleanup = function () {\n        var _this =\n        this;\n        var testabilityRegistry = this.componentRef.injector.get(core.TestabilityRegistry);\n        var\n        destroyComponentRef\n        = this.wrapCallback(function () { return _this.componentRef.destroy(); });\n        var destroyed = false;\n        this.element.on('$destroy', function () { return _this.componentScope.$destroy(); });\n        this.componentScope.$on('$destroy', function () {\n            if (!destroyed) {\n                destroyed = true;\n                testabilityRegistry.unregisterApplication(_this.componentRef.location.nativeElement);\n                destroyComponentRef();\n            }\n        });\n    }\n    DowngradeComponentAdapter.prototype.getInjector = function () { return this.componentRef.injector; }\n    DowngradeComponentAdapter.prototype.updateInput = function (prop, prevValue, currValue) {\n        if\n        (this.implementsOnChanges) {\n            this.inputChanges[prop] = new core.SimpleChange(prevValue,\n            currValue, prevValue === currValue);\n        }\n        this.inputChangeCount++;\n        this.component[prop]\n        = currValue;\n    }\n    DowngradeComponentAdapter.prototype.groupProjectableNodes = function () {\n        var ngContentSelectors = this.componentFactory.ngContentSelectors;\n        return\n        groupNodesBySelector(ngContentSelectors, this.element.contents());\n    }\n    DowngradeComponentAdapter.prototype.groupNodesBySelector = function (ngContentSelectors, nodes) {\n        var\n        projectableNodes = [];\n        var wildcardNgContentIndex;\n        for (var i = 0, ii = ngContentSelectors.length; i <\n        ii; ++i) {\n            projectableNodes[i] = [];\n        }\n        for (var j = 0, jj = nodes.length; j < jj; ++j) {\n            var\n            node = nodes[j];\n            var ngContentIndex = findMatchingNgContentIndex(node, ngContentSelectors);\n        }\n    }\n}

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if (ngContentIndex != null) {\n      projectableNodes[ngContentIndex].push(node);\n      }\n    }\n    return projectableNodes;\n  }\n  function findMatchingNgContentIndex(element,\n  ngContentSelectors) {\n    var ngContentIndices = [];\n    var wildcardNgContentIndex = -1;\n    for (var i =\n  0; i < ngContentSelectors.length; i++) {\n      var selector = ngContentSelectors[i];\n      if (selector === '*')\n  {\n        wildcardNgContentIndex = i;\n      }\n      else {\n        if (matchesSelector(element,\n  selector)) {\n          ngContentIndices.push(i);\n        }\n      }\n    }\n    ngContentIndices.sort();\n    if (wildcardNgContentIndex !== -1) {\n      ngContentIndices.push(wildcardNgContentIndex);\n    }\n    return ngContentIndices.length ? ngContentIndices[0] : null;\n  }\n  var _matches;\n  function\n  matchesSelector(el, selector) {\n    if (!_matches) {\n      var elProto = Element.prototype;\n      _matches\n  = elProto.matches || elProto.matchesSelector || elProto.mozMatchesSelector ||\n  elProto.msMatchesSelector || elProto.oMatchesSelector || elProto.webkitMatchesSelector;\n    }\n    return\n  el.nodeType === Node.ELEMENT_NODE ? _matches.call(el, selector) : false;\n  }\n  /**\n   * @license\n   * Copyright Google Inc. All Rights Reserved.\n   * Use of this source code is governed by an MIT-style\n  license that can be\n   * found in the LICENSE file at https://angular.io/license\n   */\n  function isThenable(obj)\n  {\n    return !!obj && isFunction(obj.then);\n  }\n  /**\n   * Synchronous, promise-like object.\n   */\n  var\n  SyncPromise = /** @class */ (function () {\n    function SyncPromise() {\n      this.resolved = false;\n      this.callbacks = [];\n    }\n    SyncPromise.all = function (valuesOrPromises) {\n      var aggrPromise = new\n  SyncPromise();\n      var resolvedCount = 0;\n      var results = [];\n      var resolve = function (idx, value) {\n        results[idx] = value;\n        if\n  (resolvedCount === valuesOrPromises.length)\n          aggrPromise.resolve(results);\n      };\n      valuesOrPromises.forEach(function (p, idx) {\n        if (isThenable(p)) {\n          p.then(function (v) {\n  return resolve(idx, v); });\n        }\n        else {\n          resolve(idx, p);\n        }\n      });\n      return aggrPromise;\n    };\n    SyncPromise.prototype.resolve = function (value) {\n      // Do nothing, if\n  already resolved.\n      if (this.resolved)\n        return;\n      this.value = value;\n      this.resolved =\n  true;\n      // Run the queued callbacks.\n      this.callbacks.forEach(function (callback) { return\n  callback(value); });\n      this.callbacks.length = 0;\n    };\n    SyncPromise.prototype.then\n  = function (callback) {\n      if (this.resolved) {\n        callback(this.value);\n      }\n      else {\n        this.callbacks.push(callback);\n      }\n    };\n    return SyncPromise;\n  })();\n  /**\n   * @license\n   * Copyright Google Inc. All Rights Reserved.\n   * Use of this source code is governed by an MIT-style\n  license that can be\n   * found in the LICENSE file at https://angular.io/license\n   */\n  /**\n   * @description\n   * A helper function that allows an Angular component to be used from AngularJS.\n   * Part of the\n  [upgrade/static](api?query=upgrade%2Fstatic)\n   * library for hybrid upgrade apps that support AOT\n  compilation.\n   * This helper function returns a factory function to be used for registering\n   * an\n  AngularJS wrapper directive for "downgrading" an Angular component.\n   * @usageNotes\n   * ###\n  Examples\n   *\n   * Let's assume that you have an Angular component called `ng2Heroes` that needs\n   * to be made\n  available in AngularJS templates.\n   * {@example upgrade/static/ts/full/module.ts region="ng2-heroes"}\n   *\n   * We must create an AngularJS [directive](https://docs.angularjs.org/guide/directive)\n   * that will make\n  this Angular component available inside AngularJS templates.\n   * The `downgradeComponent()` function returns\n  a factory function that we\n   * can use to define the AngularJS directive that wraps the "downgraded"\n  component.\n   * {@example upgrade/static/ts/full/module.ts region="ng2-heroes-wrapper"}\n   *\n   * For more details and examples on downgrading Angular components to AngularJS components please\n   * visit\n  the [Upgrade guide](guide/upgrade#using-angular-components-from-angularjs-code).\n   * @param info\n  contains information about the Component that is being downgraded:\n   * - `component`:\n  Type<any>: The type of the Component that will be downgraded\n   * - `downgradedModule?`: string: The name\n  of the downgraded module (if any) that the component\n   * "belongs to", as returned by a call to\n  `downgradeModule()`. It is the module, whose\n   * corresponding Angular module will be bootstrapped, when\n  the component needs to be instantiated.\n   * <br />\n   * (This option is only necessary when using

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`downgradeModule()` to downgrade more than one\n * Angular module.)\n * - `propagateDigest?: boolean`:\n Whether to perform { @link ChangeDetectorRef#detectChanges\n * change detection} on the component on\n every\n * [$digest](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest). If set to `false`,\n * change detection will still be performed when any of the component's inputs changes.\n * (Default: true)\n *\n * @returns a factory function that can be used to register the component in an\n * AngularJS\n module.\n *\n * @publicApi\n */\n function downgradeComponent(info) {\n var directiveFactory =\n function ($compile, $injector, $parse) {\n // When using `downgradeModule()`, we need to handle certain\n things specially. For example:\n // - We always need to attach the component view to the `ApplicationRef` for\n it to be\n // dirty-checked.\n // - We need to ensure callbacks to Angular APIs (e.g. change detection)\n are run inside the\n // Angular zone.\n // NOTE: This is not needed, when using `UpgradeModule`,\n because `$digest()` will be run\n // inside the Angular zone (except if explicitly escaped, in which case\n we shouldn't\n // force it back in).\n var isNgUpgradeLite = getUpgradeAppType($injector) ===\n 3 /* Lite */;\n var wrapCallback = !isNgUpgradeLite ? function (cb) { return cb; } : function (cb) { return\n function () { return core.NgZone.isInAngularZone()\n ? cb() : ngZone.run(cb); }; };\n var ngZone;\n // When downgrading multiple modules, special\n handling is needed wrt injectors.\n var hasMultipleDowngradedModules = isNgUpgradeLite &&\n (getDowngradedModuleCount($injector) > 1);\n return {\n restrict: 'E',\n terminal: true,\n require: [REQUIRE_INJECTOR, REQUIRE_NG_MODEL],\n link: function (scope, element,\n attrs, required) {\n // We might have to compile the contents asynchronously, because this might have\n been\n // triggered by `UpgradeNg1ComponentAdapterBuilder`, before the Angular templates have\n // been compiled.\n var ngModel = required[1];\n var parentInjector = required[0];\n var moduleInjector = undefined;\n var ranAsync = false;\n if (!parentInjector ||\n hasMultipleDowngradedModules)\n {\n var downgradedModule = info.downgradedModule || "";\n var lazyModuleRefKey =\n "\" + LAZY_MODULE_REF + downgradedModule;\n var attemptedAction = \"instantiating\n component \" + getTypeName(info.component) + \"\";\n validateInjectionKey($injector,\n downgradedModule, lazyModuleRefKey, attemptedAction);\n var lazyModuleRef =\n $injector.get(lazyModuleRefKey);\n moduleInjector = lazyModuleRef.injector ||\n lazyModuleRef.promise;\n }\n // Notes:\n //\n // There are two\n injectors: `finalModuleInjector` and `finalParentInjector` (they might be\n // the same instance, but that\n is irrelevant):\n // - `finalModuleInjector` is used to retrieve `ComponentFactoryResolver`, thus it must\n be\n // on the same\n tree as the `NgModule` that declares this downgraded component.\n // - `finalParentInjector` is used for\n all other injection purposes.\n // (Note that Angular knows to only traverse the component-tree part of\n that injector,\n // when looking for an injectable and then switch to the module injector.)\n //\n // There are basically three cases:\n // - If there is no parent component (thus no\n `parentInjector`), we bootstrap the downgraded\n // `NgModule` and use its injector as both\n `finalModuleInjector` and\n // `finalParentInjector`.\n // - If there is a parent component\n (and thus a `parentInjector`) and we are sure that it\n // belongs to the same `NgModule` as this\n downgraded component (e.g. because there is only\n // one downgraded module, we use that\n `parentInjector`\n as both `finalModuleInjector` and\n // `finalParentInjector`.\n // - If there is a parent\n component, but it may belong to a different `NgModule`, then we\n // use the `parentInjector` as\n `finalParentInjector` and this downgraded component's\n // declaring `NgModule`'s injector as\n `finalModuleInjector`.\n // Note 1: If the `NgModule` is already bootstrapped, we just get its injector\n (we don't\n // bootstrap again).\n // Note 2: It is possible that (while there are multiple\n downgraded modules) this\n // downgraded component and its parent component both belong to\n the same NgModule.\n // In that case, we could have used the `parentInjector` as both\n

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//      `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\n
affect anything, since `parentInjector` has `moduleInjector` as ancestor\n      //      and trying to resolve\n
`ComponentFactoryResolver` from either one will return\n      //      the same instance.\n      // If\n
there is a parent component, use its injector as parent injector.\n      // If this is a `top-level` Angular\n
component, use the module injector.\n      var finalParentInjector = parentInjector || moduleInjector;\n
      // If this is a `top-level` Angular component or the parent component may belong to a\n      // \n
different `NgModule`, use the module injector for module-specific dependencies.\n      // If there is a parent\n
component that belongs to the same `NgModule`, use its injector.\n      var finalModuleInjector\n
= moduleInjector || parentInjector;\n      var doDowngrade = function (injector, moduleInjector) {\n
      // Retrieve `ComponentFactoryResolver` from the injector tied to the `NgModule` this\n      // \n
component belongs to.\n      var componentFactoryResolver =\n
moduleInjector.get(core.ComponentFactoryResolver);\n      var componentFactory =\n
componentFactoryResolver.resolveComponentFactory(info.component);\n      if (!componentFactory)\n
{\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, $injector, $compile, $parse,\n
componentFactory, wrapCallback);\n      var projectableNodes = facade.compileContents();\n
      facade.createComponent(projectableNodes);\n      facade.setupInputs(isNgUpgradeLite,\n
info.propagateDigest);\n      facade.setupOutputs();\n      facade.registerCleanup();\n
      injectorPromise.resolve(facade.getInjector());\n      if (ranAsync) {\n      // If this is run\n
async, it is possible that it is not run inside a\n      // digest and initial input values will not be\n
detected.\n      scope.$evalAsync(function () { });\n      }\n      };\n      var\n
downgradeFn = !isNgUpgradeLite ? doDowngrade : function (pInjector, mInjector) {\n      if (!ngZone)\n
{\n
      ngZone = pInjector.get(core.NgZone);\n      }\n
wrapCallback(function () { return doDowngrade(pInjector,\n
mInjector); });\n      });\n      // NOTE:\n      // Not using `ParentInjectorPromise.all()`\n
(which is inherited from `SyncPromise`), because\n      // Closure Compiler (or some related tool)\n
complains:\n      // `TypeError: ...$src$downgrade_component_ParentInjectorPromise.all is not a\n
function`\n      SyncPromise.all([finalParentInjector, finalModuleInjector]).then(function\n
(_a) {\n
      var _b = __read(_a, 2), pInjector = _b[0], mInjector = _b[1];\n      return\n
downgradeFn(pInjector, mInjector);\n      });\n      ranAsync = true;\n      });\n      };\n
};\n      // bracket-notation because of closure - see #14441\n      directiveFactory['$inject'] = [$COMPILER,\n
$INJECTOR, $PARSE];\n      return directiveFactory;\n      }\n      /**\n      * Synchronous promise-like object to wrap\n
parent injectors,\n
      * to preserve the synchronous nature of AngularJS's `$compile`.\n      */\n      var ParentInjectorPromise = /**\n
@class */ (function (_super) {\n      __extends(ParentInjectorPromise, _super);\n      function\n
ParentInjectorPromise(element) {\n      var _this = _super.call(this) || this;\n      _this.element = element;\n
      _this.injectorKey = controllerKey(INJECTOR_KEY);\n      // Store the promise on the element.\n
element.data(_this.injectorKey, _this);\n      return _this;\n      }\n      ParentInjectorPromise.prototype.resolve\n
= function (injector) {\n      // Store the real injector on the element.\n      this.element.data(this.injectorKey,\n
injector);\n      // Release the element to prevent memory leaks.\n      this.element = null;\n      // Resolve\n
the promise.\n      _super.prototype.resolve.call(this, injector);\n      }; \n      return ParentInjectorPromise;\n
})(SyncPromise);\n
      /**\n      * @license\n      * Copyright Google Inc. All Rights Reserved.\n      */\n      * Use of this source code is\n
governed by an MIT-style license that can be\n      * found in the LICENSE file at https://angular.io/license\n      */\n
      /**\n      * @description\n      */\n      * A helper function to allow an Angular service to be accessible from\n
AngularJS.\n      */\n      * Part of the [upgrade/static](api?query=upgrade%2Fstatic)\n      * library for hybrid upgrade

```

apps that support AOT compilation

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    * This helper function returns a factory function that provides access
    to the Angular
    * service identified by the `token` parameter.
    * @usageNotes
    * ### Examples
    *
    * First ensure that the service to be downgraded is provided in an `NgModule`
    * that will be part of the
    upgrade application. For example, let's assume we have
    * defined `HeroesService`
    *
    * { @example
    upgrade/static/ts/full/module.ts region="ng2-heroes-service"}
    *
    * and that we have included this in our upgrade app `NgModule`
    *
    * { @example
    upgrade/static/ts/full/module.ts region="ng2-module"}
    *
    * Now we can register the `downgradeInjectable`
    factory function for the service
    * on an AngularJS module.
    *
    * { @example
    upgrade/static/ts/full/module.ts region="downgrade-ng2-heroes-service"}
    *
    * Inside an AngularJS
    component's controller we can get hold of the
    * downgraded service via the name we gave when
    downgrading.
    *
    * { @example upgrade/static/ts/full/module.ts region="example-app"}
    *
    * <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
    * 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.
    *
    * </div>
    *
    * @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/guide/di)
    that can be
    * used to register the service on an AngularJS module.
    *
    * @publicApi
    *
    * function
    downgradeInjectable(token, downgradedModule) {
    if (downgradedModule === void 0) { downgradedModule
    = ""; }
    var factory = function ($injector) {
    var injectorKey = "" + INJECTOR_KEY +
    downgradedModule;
    var injectableName = isFunction(token) ? getTypeName(token) : String(token);
    var attemptedAction = "instantiating injectable " + injectableName + "";
    validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);
    var injector =
    $injector.get(injectorKey);
    return injector.get(token);
    };
    factory['$inject'] = [$INJECTOR];
    return factory;
    }
    /**
    * @license
    * Copyright Google Inc. All Rights Reserved.
    *
    * Use
    of this source code is governed by an MIT-style
    license that can be
    * found in the LICENSE file at https://angular.io/license
    *
    * @publicApi
    *
    * var VERSION = new core.Version('9.0.7');
    /**
    * @license
    * Copyright Google Inc. All
    Rights Reserved.
    *
    * Use of this source code is governed by an MIT-style license that can be
    * found
    in the LICENSE file at https://angular.io/license
    *
    * // We have to do a little dance to get the ng1 injector into
    the module injector.
    * // We store the ng1 injector so that the provider in the module injector can access it
    * //
    Then we "get" the ng1 injector from the module injector, which triggers the provider to read
    * // the stored
    injector and release the reference to it.
    var tempInjectorRef = null;
    function setTempInjectorRef(injector) {
    tempInjectorRef = injector;
    }
    function injectorFactory() {
    if (!tempInjectorRef) {
    throw
    new Error("Trying to get
    the AngularJS injector before it being set.");
    }
    var injector = tempInjectorRef;
    tempInjectorRef =
    null;
    // clear the value to prevent memory leaks
    return injector;
    }
    function rootScopeFactory(i) {
    return i.get('$rootScope');
    }
    function compileFactory(i) {
    return i.get('$compile');
    }
    function
    parseFactory(i) {
    return i.get('$parse');
    }
    var 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\n      { provide: '$injector', useFactory: injectorFactory,
deps: [] },\n      { provide: '$rootScope', useFactory: rootScopeFactory, deps: ['$injector'] },\n      { provide:
'$compile', useFactory:
compileFactory, deps: ['$injector'] },\n      { provide: '$parse', useFactory: parseFactory, deps: ['$injector'] }\n
];\n\n /**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code
is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n
*\n var NgAdapterInjector = /** @class */ (function () {\n      function NgAdapterInjector(modInjector) {\n
this.modInjector = modInjector;\n      }\n      // When Angular locate a service in the component injector tree, the
not found value is set to\n      // `NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR`. In such a case we
should not walk up to the module\n      // injector.\n      // AngularJS only supports a single tree and should always
check the module injector.\n      NgAdapterInjector.prototype.get = function (token, notFoundValue) {\n      if
(notFoundValue === core.NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR)\n      {\n      return notFoundValue;\n      }\n      return this.modInjector.get(token, notFoundValue);\n
};\n      return NgAdapterInjector;\n    });\n\n /**\n * @license\n * Copyright Google Inc. All Rights
Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n *\n var moduleUid = 0;\n /**\n * @description\n *\n * A
helper function for creating an AngularJS module that can bootstrap an Angular module\n * `"on-demand"`
(possibly lazily) when a {@link downgradeComponent downgraded component} needs to be\n * instantiated.\n
*\n * *Part of the [upgrade/static](api?query=upgrade/static) library for hybrid upgrade apps that\n * support
AOT compilation.*\n *\n * It allows loading/bootstrapping the Angular part of a hybrid application lazily and
not having to\n * pay the cost
up-front. For example, you can have an AngularJS application that uses Angular for\n * specific routes and only
instantiate the Angular modules if/when the user visits one of these\n * routes.\n *\n * The Angular module
will be bootstrapped once (when requested for the first time) and the same\n * reference will be used from that
point onwards.\n *\n * `downgradeModule()` requires either an `NgModuleFactory` or a function:\n * -
`NgModuleFactory`: If you pass an `NgModuleFactory`, it will be used to instantiate a module\n * using
`platformBrowser`'s {@link PlatformRef#bootstrapModuleFactory bootstrapModuleFactory()}.\n * - `Function`:
If you pass a function, it is expected to return a promise resolving to an\n * `NgModuleRef`. The function is
called with an array of extra {@link StaticProvider Providers} that are expected to be available from the
returned `NgModuleRef`'s `Injector`.\n *\n * `downgradeModule()` returns the
name of the created AngularJS wrapper module. You can use it to\n * declare a dependency in your main
AngularJS module.\n *\n * {@example upgrade/static/ts/lite/module.ts region="basic-how-to"}\n *\n *
For more details on how to use `downgradeModule()` see\n * [Upgrading for Performance](guide/upgrade-
performance).\n *\n * @usageNotes\n *\n * Apart from `UpgradeModule`, you can use the rest of the
`upgrade/static` helpers as usual to\n * build a hybrid application. Note that the Angular pieces (e.g. downgraded
services) will not be\n * available until the downgraded module has been bootstrapped, i.e. by instantiating a
downgraded\n * component.\n *\n * <div class="alert is-important">\n *\n * You cannot use
`downgradeModule()` and `UpgradeModule` in the same hybrid application.<br />\n * Use one or the other.\n
*\n * </div>\n *\n * #### Differences with `UpgradeModule`\n *\n * Besides
their different API, there are two important internal differences between\n * `downgradeModule()` and
`UpgradeModule` that affect the behavior of hybrid applications:\n *\n * 1. Unlike `UpgradeModule`,
`downgradeModule()` does not bootstrap the main AngularJS module\n * inside the {@link NgZone Angular
zone}.\n * 2. Unlike `UpgradeModule`, `downgradeModule()` does not automatically run a\n *
[$digest()](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest) when changes are\n * detected in
the Angular part of the application.\n *\n * What this means is that applications using `UpgradeModule` will
run change detection more\n * frequently in order to ensure that both frameworks are properly notified about
possible changes.\n *\n * This will inevitably result in more change detection runs than necessary.\n *\n *
`downgradeModule()`, on the other side, does not try to tie the two change detection systems as\n * 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.$apply(...)]` ([https://docs.angularjs.org/api/ng/type/\\$rootScope.Scope#\\$apply](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$apply)) or `[$rootScope.$digest()]` ([https://docs.angularjs.org/api/ng/type/\\$rootScope.Scope#\\$digest](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest)). You can manually trigger a change detection run in Angular using `{ @link NgZone#run ngZone.run(...) }`.

### 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 `@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:

```
@example upgrade/static/ts/lite-multi-shared/module.ts
region="shared-root-module"
@publicApi
function downgradeModule(moduleFactoryOrBootstrapFn) {
  var lazyModuleName = UPGRADE_MODULE_NAME + ".lazy" + ++moduleId;
  var lazyModuleRefKey = "" + LAZY_MODULE_REF + lazyModuleName;
  var lazyInjectorKey = "" + INJECTOR_KEY + lazyModuleName;
  var bootstrapFn = isFunction(moduleFactoryOrBootstrapFn) ? moduleFactoryOrBootstrapFn : function (extraProviders) {
    return platformBrowser.platformBrowser(extraProviders).bootstrapModuleFactory(moduleFactoryOrBootstrapFn);
  };
  var injector; // Create an ng1 module to bootstrap.
  module_(lazyModuleName, [])
    .constant(UPGRADE_APP_TYPE_KEY, 3 /* Lite */)
    .factory(INJECTOR_KEY, [lazyInjectorKey, identity])
    .factory(lazyInjectorKey, function () {
      if (!injector) throw new Error("Trying to get the Angular injector before bootstrapping the corresponding 'Angular module.");
      return injector;
    })
    .factory(LAZY_MODULE_REF, [lazyModuleRefKey, identity])
    .factory(lazyModuleRefKey, [
      $INJECTOR, function ($injector) {
        setTempInjectorRef($injector);
        var result = {
          promise: bootstrapFn(angular1Providers).then(function (ref) {
            injector = result.injector = new NgAdapterInjector(ref.injector);
            return injector;
          })
        };
        return result;
      })
    ])
    .config([
      $INJECTOR, $PROVIDE, function ($injector, $provide) {
        $provide.constant(DOWNGRADED_MODULE_COUNT_KEY, getDowngradedModuleCount($injector) + 1);
      }
    ]);
  return lazyModuleName;
}
function identity(x) { return x; }
/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
 */
// Constants
var REQUIRE_PREFIX_RE = /^(\\^\\^?)?(\\?)?(\\^\\^?)?;/
// Classes
var UpgradeHelper = /** @class */ (function () {
  function
```

```

UpgradeHelper(injector, name, elementRef, directive) {\n      this.injector = injector;\n      this.name =
name;\n      this.$injector = injector.get($INJECTOR);\n      this.$compile =
this.$injector.get($COMPILE);\n      this.$controller = this.$injector.get($CONTROLLER);\n
this.element = elementRef.nativeElement;\n      this.$element = element(this.element);\n      this.directive =
directive || UpgradeHelper.getDirective(this.$injector, name);\n      }\n      UpgradeHelper.getDirective = function
($injector, name) {\n      var directives = $injector.get(name + 'Directive');\n      if (directives.length > 1) {\n
throw new Error("Only support single directive definition for: \" + name);\n      }\n      var directive =
directives[0];\n      // AngularJS will transform `link: xyz` to `compile: () => xyz`. So we can only tell there was
a\n      // user-defined `compile` if there is
no `link`. In other cases, we will just ignore `compile`.\n      if (directive.compile && !directive.link)\n
notSupported(name, 'compile');\n      if (directive.replace)\n      notSupported(name, 'replace');\n      if
(directive.terminal)\n      notSupported(name, 'terminal');\n      return directive;\n      };\n
UpgradeHelper.getTemplate = function ($injector, directive, fetchRemoteTemplate, $element) {\n      if
(fetchRemoteTemplate === void 0) { fetchRemoteTemplate = false; }\n      if (directive.template !== undefined)
{\n      return getOrCall(directive.template, $element);\n      }\n      else if (directive.templateUrl) {\n
var $templateCache_1 = $injector.get($TEMPLATE_CACHE);\n      var url_1 =
getOrCall(directive.templateUrl, $element);\n      var template = $templateCache_1.get(url_1);\n      if
(template !== undefined) {\n
return template;\n      }\n      else if (!fetchRemoteTemplate) {\n      throw new
Error('loading directive templates asynchronously is not supported');\n      }\n      return new
Promise(function (resolve, reject) {\n      var $httpBackend = $injector.get($HTTP_BACKEND);\n
$httpBackend('GET', url_1, null, function (status, response) {\n      if (status === 200) {\n
resolve($templateCache_1.put(url_1, response));\n      }\n      else {\n
reject("GET component template from \" + url_1 + \" returned \" + status + \": \" + response + "\"");\n
}\n      });\n      });\n      else {\n      throw new Error("Directive \" +
directive.name + \" is not a component, it is missing template.\");\n      }\n
});\n      UpgradeHelper.prototype.buildController = function (controllerType, $scope) {\n      // TODO:
Document that we do not pre-assign bindings on the controller instance.\n      // Quoted properties below so that
this code can be optimized with Closure Compiler.\n      var locals = { '$scope': $scope, '$element': this.$element
};\n      var controller = this.$controller(controllerType, locals, null, this.directive.controllerAs);\n
this.$element.data(controllerKey(this.directive.name), controller);\n      return controller;\n      };\n
UpgradeHelper.prototype.compileTemplate = function (template) {\n      if (template === undefined) {\n
template =\n      UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element);\n
}\n      return this.compileHtml(template);\n      };\n      UpgradeHelper.prototype.onDestroy = function
($scope, controllerInstance)
{\n      if (controllerInstance && isFunction(controllerInstance.$onDestroy)) {\n
controllerInstance.$onDestroy();\n      }\n      $scope.$destroy();\n      // Clean the jQuery/jqLite data on
the component+child elements.\n      // Equivalent to how jQuery/jqLite invoke `cleanData` on an Element
(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#L306-L312\n
// `cleanData` will invoke the AngularJS `$destroy` DOM event\n      //
https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2aab70d86d4d688c82/src/Angular.js#L1911-L1924\n
element.cleanData([this.element]);\n      element.cleanData(this.element.querySelectorAll("*"));\n
};\n      UpgradeHelper.prototype.prepareTransclusion = function
()\n      {\n      var _this = this;\n      var transclude = this.directive.transclude;\n      var contentChildNodes =
this.extractChildNodes();\n      var attachChildrenFn = function (scope, cloneAttachFn) {\n      // Since

```

```

AngularJS v1.5.8, `cloneAttachFn` will try to destroy the transclusion scope if\n          // `$template` is empty.
Since the transcluded content comes from Angular, not AngularJS,\n          // there will be no transclusion scope
here.\n          // Provide a dummy `scope.$destroy()` method to prevent `cloneAttachFn` from throwing.\n
scope = scope || { $destroy: function () { return undefined; } }; \n          return cloneAttachFn($template,
scope); \n          }; \n          var $template = contentChildNodes; \n          if (transclude) { \n          var slots_1 =
Object.create(null); \n          if (typeof transclude === 'object') { \n          $template = []; \n
var slotMap_1 = Object.create(null); \n          var filledSlots_1 = Object.create(null); \n          // Parse
the element selectors. \n          Object.keys(transclude).forEach(function (slotName) { \n          var
selector = transclude[slotName]; \n          var optional = selector.charAt(0) === '?'; \n          selector
= optional ? selector.substring(1) : selector; \n          slotMap_1[selector] = slotName; \n
slots_1[slotName] = null; // `null`: Defined but not yet filled. \n          filledSlots_1[slotName] = optional; //
Consider optional slots as filled. \n          }); \n          // Add the matching elements into their slot. \n
contentChildNodes.forEach(function (node) { \n          var slotName =
slotMap_1[directiveNormalize(node.nodeName.toLowerCase())]; \n          if (slotName) { \n
filledSlots_1[slotName] = true; \n          slots_1[slotName] = slots_1[slotName] || []; \n
slots_1[slotName].push(node); \n          } \n          else { \n
$template.push(node); \n          } \n          }); \n          // Check for required slots that were not
filled. \n          Object.keys(filledSlots_1).forEach(function (slotName) { \n          if
(!filledSlots_1[slotName]) { \n          throw new Error("Required transclusion slot \"" + slotName + "\" on
directive: \"" + _this.name); \n          } \n          }); \n          Object.keys(slots_1).filter(function
(slotName) { return slots_1[slotName]; }).forEach(function (slotName) { \n          var nodes =
slots_1[slotName]; \n          slots_1[slotName] = function (scope, cloneAttach) { \n
return cloneAttach(nodes, scope); \n          }; \n          }); \n          } \n          //
Attach `$$slots` to default slot transclude fn. \n          attachChildrenFn.$$slots = slots_1; \n          // AngularJS
v1.6+ ignores empty or whitespace-only transcluded text nodes. But Angular\n          // removes all text content
after the first interpolation and updates it later, after\n          // evaluating the expressions. This would result in
AngularJS failing to recognize text\n          // nodes that start with an 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          $template.forEach(function (node) { \n          if (node.nodeType ===
Node.TEXT_NODE && !node.nodeValue) { \n          node.nodeValue = "\u200C"; \n          } \n
}); \n          } \n          return attachChildrenFn; \n          }; \n
UpgradeHelper.prototype.resolveAndBindRequiredControllers = function (controllerInstance) { \n          var
directiveRequire = this.getDirectiveRequire(); \n          var requiredControllers =
this.resolveRequire(directiveRequire); \n          if (controllerInstance && this.directive.bindToController &&
isMap(directiveRequire)) { \n          var requiredControllersMap_1 = requiredControllers; \n
Object.keys(requiredControllersMap_1).forEach(function (key) { \n          controllerInstance[key] =
requiredControllersMap_1[key]; \n
}); \n          } \n          return requiredControllers; \n          }; \n          UpgradeHelper.prototype.compileHtml =
function (html) { \n          this.element.innerHTML = html; \n          return
this.$compile(this.element.childNodes); \n          }; \n          UpgradeHelper.prototype.extractChildNodes = function ()
{ \n          var childNodes = []; \n          var childNode; \n          while (childNode = this.element.firstChild) { \n
this.element.removeChild(childNode); \n          childNodes.push(childNode); \n          } \n          return
childNodes; \n          }; \n          UpgradeHelper.prototype.getDirectiveRequire = function () { \n          var require =
this.directive.require || (this.directive.controller && this.directive.name); \n          if (isMap(require)) { \n
Object.keys(require).forEach(function (key) { \n          var value = require[key]; \n          var match =

```

```

value.match(REQUIRE_PREFIX_RE);\n
    var name = value.substring(match[0].length);\n        if (!name) {\n            require[key] =\nmatch[0] + key;\n        }\n    });\n    }\n    return require;\n    };\nUpgradeHelper.prototype.resolveRequire = function (require, controllerInstance) {\n    var _this = this;\nif (!require) {\n    return null;\n    }\n    else if (Array.isArray(require)) {\n    return\nrequire.map(function (req) { return _this.resolveRequire(req); });\n    }\n    else if (typeof require ===\n'object') {\n    var value_1 = {};\n    Object.keys(require).forEach(function (key) { return\nvalue_1[key] = _this.resolveRequire(require[key]); });\n    return value_1;\n    }\n    else if (typeof\nrequire === '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 =\ninheritType === '^';\n    var ctrlKey = controllerKey(name_1);\n    var elem = startOnParent ?\nthis.$element.parent() : this.$element;\n    var value = searchParents ? elem.inheritedData(ctrlKey) :\nelem.data(ctrlKey);\n    if (!value && !isOptional) {\n    throw new Error("Unable to find required\n\" + 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 + \": \" +\nrequire);\n    }\n    });\n    return UpgradeHelper;\n    }();\n    function getOrCall(property)\n{\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\nworks for `typeof T !== 'object'.\n    function isMap(value) {\n    return value && !Array.isArray(value) &&\ntypeof value === 'object';\n    }\n    function notSupported(name, feature) {\n    throw new Error("Upgraded\ndirective \" + name + \" contains unsupported feature: \" + feature + \".");\n    }\n    /**\n     * @license\n     *\n     * Copyright Google Inc. All Rights Reserved.\n     * Use of this source code is governed by an MIT-style\n     * license that can be\n     * found in the LICENSE file at https://angular.io/license\n     */\n    var NOT_SUPPORTEDED\n= 'NOT_SUPPORTEDED';\n    var INITIAL_VALUE$1 = {\n    __UNINITIALIZED__: true\n    };\n    var\nBindings = /** @class */ (function () {\n    function Bindings()\n{\n    this.twoWayBoundProperties = [];\n    this.twoWayBoundLastValues = [];\nthis.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\nAngular.\n     *\n     * Part of the [upgrade/static](api?query=upgrade%2Fstatic)\n     * library for hybrid upgrade\napps that support AOT compilation.\n     *\n     * This helper class should be used as a base class for creating\nAngular directives\n     * that wrap AngularJS components that need to be "upgraded".\n     *\n     *\n     * @usageNotes\n     * ### Examples\n     *\n     * Let's assume that you have an AngularJS component called\n`ng1Hero`\n     * that needs\n     * to be made available in Angular templates.\n     *\n     * @example\nupgrade/static/ts/full/module.ts region="ng1-hero"}\n     *\n     * We must create a `Directive` that will\nmake this AngularJS component\n     * available inside Angular templates.\n     *\n     * @example\nupgrade/static/ts/full/module.ts region="ng1-hero-wrapper"}\n     *\n     * In this example you can see that we must\nderive from the `UpgradeComponent`\n     * base class but also provide an {@link Directive `@Directive`} \ndecorator. This is\n     * because the AOT compiler requires that this information is statically available at\n     * compile time.\n     *\n     * Note that we must do the following:\n     * * specify the directive's selector (`ng1-hero`)\n     * * specify all inputs and outputs that the AngularJS component expects\n     * * derive from\n`UpgradeComponent`\n     * * call the base class from the constructor, passing\n     * * the AngularJS name of the\ncomponent (`ng1Hero`)\n     * * the `ElementRef` and `Injector` for the component wrapper\n     *\n     * @publicApi\n     */\n    var UpgradeComponent = /** @class */ (function () {\n    /**\n     * Create\na new `UpgradeComponent` instance. You should not normally need to do this.\n     * Instead you should derive\na new class from this one and call the super constructor\n     * from the base class.\n     *\n     * @example\nupgrade/static/ts/full/module.ts region="ng1-hero-wrapper"}\n     *\n     * * The `name` parameter should be\nthe name of the AngularJS directive.\n     * * The `elementRef` and `injector` parameters should be acquired from

```

```

Angular by dependency\n      * injection into the base class constructor.\n      */\n      function
UpgradeComponent(name, elementRef, injector) {\n      this.name = name;\n      this.elementRef =
elementRef;\n      this.injector = injector;\n      this.helper = new UpgradeHelper(injector, name,
elementRef);\n      this.$injector = this.helper.$injector;\n      this.element = this.helper.element;\n
this.$element = this.helper.$element;\n      this.directive
= this.helper.directive;\n      this.bindings = this.initializeBindings(this.directive);\n      // We ask for the
AngularJS scope from the Angular injector, since\n      // we will put the new component scope onto the new
injector for each component\n      var $parentScope = injector.get($SCOPE);\n      // QUESTION 1: Should
we create an isolated scope if the scope is only true?\n      // QUESTION 2: Should we make the scope accessible
through `$.element.scope()/isolateScope`?\n      this.$componentScope =
$parentScope.$new(!this.directive.scope);\n      this.initializeOutputs();\n      }\n
UpgradeComponent.prototype.ngOnInit = function () {\n      var _this = this;\n      // Collect contents, insert
and compile template\n      var attachChildNodes = this.helper.prepareTransclusion();\n      var linkFn =
this.helper.compileTemplate();\n      // Instantiate controller\n      var controllerType
= this.directive.controller;\n      var bindToController = this.directive.bindToController;\n      if
(controllerType) {\n      this.controllerInstance = this.helper.buildController(controllerType,
this.$componentScope);\n      }\n      else if (bindToController) {\n      throw new Error(`Upgraded
directive "` + this.directive.name + `" specifies 'bindToController' but no controller.`);\n      }\n      // Set up
outputs\n      this.bindingDestination = bindToController ? this.controllerInstance : this.$componentScope;\n
      this.bindOutputs();\n      // Require other controllers\n      var requiredControllers =
this.helper.resolveAndBindRequiredControllers(this.controllerInstance);\n      // Hook: $onChanges\n      if
(this.pendingChanges) {\n      this.forwardChanges(this.pendingChanges);\n      this.pendingChanges =
null;\n      }\n      // Hook: $onInit\n
      if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {\n
this.controllerInstance.$onInit();\n      }\n      // Hook: $doCheck\n      if (this.controllerInstance &&
isFunction(this.controllerInstance.$doCheck)) {\n      var callDoCheck = function () { return
_this.controllerInstance.$doCheck(); };
this.unregisterDoCheckWatcher =
this.$componentScope.$parent.$watch(callDoCheck);\n      callDoCheck();\n      }\n      // Linking\n
var link = this.directive.link;\n      var preLink = typeof link == 'object' && link.pre;\n      var postLink =
typeof link == 'object' ? link.post : link;\n      var attrs = NOT_SUPPORTED;\n      var transcludeFn =
NOT_SUPPORTED;\n      if (preLink) {\n      preLink(this.$componentScope, this.$element, attrs,
requiredControllers, transcludeFn);\n      }\n      linkFn(this.$componentScope,
null, { parentBoundTranscludeFn: attachChildNodes });\n      if (postLink) {\n
postLink(this.$componentScope, this.$element, attrs, requiredControllers, transcludeFn);\n      }\n      //
Hook: $postLink\n      if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) {\n
this.controllerInstance.$postLink();\n      }\n      }\n      UpgradeComponent.prototype.ngOnChanges =
function (changes) {\n      if (!this.bindingDestination) {\n      this.pendingChanges = changes;\n      }\n
      else {\n      this.forwardChanges(changes);\n      }\n      }\n
UpgradeComponent.prototype.ngDoCheck = function () {\n      var _this = this;\n      var
twoWayBoundProperties = this.bindings.twoWayBoundProperties;\n      var twoWayBoundLastValues =
this.bindings.twoWayBoundLastValues;\n      var propertyToOutputMap =
this.bindings.propertyToOutputMap;\n
      twoWayBoundProperties.forEach(function (propName, idx) {\n      var newValue =
_this.bindingDestination[propName];\n      var oldValue = twoWayBoundLastValues[idx];\n      if
(!core.looseIdentical(newValue, oldValue)) {\n      var outputName = propertyToOutputMap[propName];\n
      var eventEmitter = _this[outputName];\n      eventEmitter.emit(newValue);\n
twoWayBoundLastValues[idx] = newValue;\n      }\n      });\n      }\n
UpgradeComponent.prototype.ngOnDestroy = function () {\n      if

```

```

(isFunction(this.unregisterDoCheckWatcher)) {\n          this.unregisterDoCheckWatcher();\n          }\nthis.helper.onDestroy(this.$componentScope, this.controllerInstance);\n};\nUpgradeComponent.prototype.initializeBindings = function (directive) {\n          var _this = this;\n          var\n          btcIsObject = typeof directive.bindToController\n          === 'object';\n          if (btcIsObject && Object.keys(directive.scope).length) {\n          throw new\n          Error(\"Binding definitions on scope and controller at the same time is not supported.\");\n          }\n          var\n          context = btcIsObject ? directive.bindToController : directive.scope;\n          var bindings = new Bindings();\n          if (typeof context === 'object') {\n          Object.keys(context).forEach(function (propName) {\n          var\n          definition = context[propName];\n          var bindingType = definition.charAt(0);\n          // QUESTION:\n          What about `=*`? Ignore? Throw? Support?\n          switch (bindingType) {\n          case '@':\n          case '<':\n          // We don't need to do anything special. They will be defined as inputs on the\n          // upgraded component facade and the change propagation will be handled\n          by\n          // `ngOnChanges`.\n          break;\n          case '=':\n          bindings.twoWayBoundProperties.push(propName);\n          bindings.twoWayBoundLastValues.push(INITIAL_VALUE$1);\n          bindings.propertyToOutputMap[propName] = propName + 'Change';\n          break;\n          case\n          '&':\n          bindings.expressionBoundProperties.push(propName);\n          bindings.propertyToOutputMap[propName] = propName;\n          break;\n          default:\n          var json = JSON.stringify(context);\n          throw new Error(\"Unexpected mapping \"" +\n          bindingType + "\" in \"" + json + "\" in \"" + _this.name + "\" directive.\");\n          }\n          });\n          return bindings;\n          };\n          UpgradeComponent.prototype.initializeOutputs = function () {\n          var _this = this;\n          // Initialize the\n          outputs for `=` and `&` bindings\n          this.bindings.twoWayBoundProperties.concat(this.bindings.expressionBoundProperties)\n          .forEach(function (propName) {\n          var outputName = _this.bindings.propertyToOutputMap[propName];\n          _this[outputName] = new core.EventEmitter();\n          });\n          });\n          UpgradeComponent.prototype.bindOutputs = function () {\n          var _this = this;\n          // Bind `&` bindings to\n          the corresponding outputs\n          this.bindings.expressionBoundProperties.forEach(function (propName) {\n          var outputName = _this.bindings.propertyToOutputMap[propName];\n          var emitter =\n          _this[outputName];\n          _this.bindingDestination[propName] = function (value) { return emitter.emit(value);\n          };\n          });\n          UpgradeComponent.prototype.forwardChanges\n          = function (changes) {\n          var _this = this;\n          // Forward input changes to `bindingDestination`\n          Object.keys(changes).forEach(function (propName) { return _this.bindingDestination[propName] =\n          changes[propName].currentValue; });\n          if (isFunction(this.bindingDestination.$onChanges)) {\n          this.bindingDestination.$onChanges(changes);\n          }\n          });\n          return UpgradeComponent;\n          }());\n          /**\n          * @license\n          * Copyright Google Inc. All Rights Reserved.\n          *\n          * Use of this source code is\n          governed by an MIT-style license that can be\n          * found in the LICENSE file at https://angular.io/license\n          */\n          /**\n          * @description\n          *\n          * An `NgModule`, which you import to provide AngularJS core services,\n          * and has an instance method used to bootstrap the hybrid upgrade application.\n          *\n          * Part of the\n          [upgrade/static](api?query=upgrade/static)\n          *\n          * library for hybrid upgrade apps that support AOT compilation*\n          *\n          * The `upgrade/static` package\n          contains helpers that allow AngularJS and Angular components\n          * to be used together inside a hybrid upgrade\n          application, which supports AOT compilation.\n          *\n          * Specifically, the classes and functions in the\n          `upgrade/static` module allow the following:\n          *\n          * 1. Creation of an Angular directive that wraps and exposes\n          an AngularJS component so\n          * that it can be used in an Angular template. See `UpgradeComponent`.\n          *\n          * 2.\n          Creation of an AngularJS directive that wraps and exposes an Angular component so\n          * that it can be used in\n          an AngularJS template. See `downgradeComponent`.\n          *\n          * 3. Creation of an Angular root injector provider that\n          wraps and exposes an AngularJS\n          * service so that it can be injected into an Angular context. See\n          *

```

{ @link UpgradeModule#upgrading-an-angular-1-service Upgrading an AngularJS service}

below.\n \* 4. Creation of an AngularJS service that wraps and exposes an Angular injectable\n \* so that it can be injected into an AngularJS context. See `downgradeInjectable`.\n \* 3. Bootstrapping of a hybrid Angular application which contains both of the frameworks\n \* coexisting in a single application.\n \*\n \* @usageNotes\n \*\n \* ```ts\n \* import {UpgradeModule} from '@angular/upgrade/static';\n \* ```\n \*\n \* See also the { @link UpgradeModule#examples examples} below.\n \*\n \* ### Mental Model\n \*\n \* When reasoning about how a hybrid application works it is useful to have a mental model which\n \* describes what is happening and explains what is happening at the lowest level.\n \*\n \* 1. There are two independent frameworks running in a single application, each framework treats\n \* the other as a black box.\n \* 2. Each DOM element on the page is owned exactly by one framework. Whichever framework\n \* instantiated the element is the owner. Each framework only updates/interacts with its own\n \* DOM elements and ignores others.\n \* 3. AngularJS directives always execute inside the AngularJS framework codebase regardless of\n \* where they are instantiated.\n \* 4. Angular components always execute inside the Angular framework codebase regardless of\n \* where they are instantiated.\n \* 5. An AngularJS component can be "upgraded" to an Angular component. This is achieved by\n \* defining an Angular directive, which bootstraps the AngularJS component at its location\n \* in the DOM. See `UpgradeComponent`.\n \* 6. An Angular component can be "downgraded" to an AngularJS component. This is achieved by\n \* defining an AngularJS directive, which bootstraps the Angular component at its location\n \* in the DOM. See `downgradeComponent`.\n \* 7. Whenever an "upgraded" or "downgraded" component is instantiated the host element is owned by\n \* the framework doing the instantiation. The other framework then instantiates and owns the\n \* view for that component.\n \* 1. This implies that the component bindings will always follow the semantics of the\n \* instantiation framework.\n \* 2. The DOM attributes are parsed by the framework that owns the current template. So\n \* attributes in AngularJS templates must use kebab-case, while AngularJS templates must use\n \* camelCase.\n \* 3. However the template binding syntax will always use the Angular style, e.g. square\n \* brackets ( `[...]` ) for property binding.\n \* 8. Angular is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the\n \* root component of the application.\n \* 9. The new application is running in an Angular zone, and therefore it no longer needs calls to\n \* `\$apply()`.\n \*\n \* ### The `UpgradeModule` class\n \*\n \* This class is an `NgModule`, which you import to provide AngularJS core services,\n \* and has an instance method used to bootstrap the hybrid upgrade application.\n \*\n \* Core AngularJS services\n \*\n \* Importing this `NgModule` will add providers for the core\n \* [AngularJS services](https://docs.angularjs.org/api/ng/service) to the root injector.\n \*\n \* Bootstrap\n \* The runtime instance of this class contains a { @link UpgradeModule#bootstrap `bootstrap()` }\n \* method, which you use to bootstrap the top level AngularJS module onto an element in the\n \* DOM for the hybrid upgrade app.\n \*\n \* It also contains properties to access the { @link UpgradeModule#injector root injector}, the\n \* bootstrap `NgZone` and the\n \* [AngularJS \$injector](https://docs.angularjs.org/api/auto/service/\$injector).\n \*\n \* ### Examples\n \*\n \* Import the `UpgradeModule` into your top level { @link NgModule\n \* Angular `NgModule` }.\n \*\n \* { @example upgrade/static/ts/full/module.ts region='ng2-module'}\n \*\n \* Then inject `UpgradeModule` into your Angular `NgModule` and use it to bootstrap the top level\n \* [AngularJS module](https://docs.angularjs.org/api/ng/type/angular.Module) in the\n \* `ngDoBootstrap()` method.\n \*\n \* { @example upgrade/static/ts/full/module.ts region='bootstrap-ng1'}\n \*\n \* Finally, kick off the whole process, by bootstrapping your top level Angular `NgModule`.\n \*\n \* { @example\n \* upgrade/static/ts/full/module.ts region='bootstrap-ng2'}\n \*\n \* { @a upgrading-an-angular-1-service}\n \*\n \* ### Upgrading an AngularJS service\n \*\n \* There is no specific API for upgrading an AngularJS service. Instead you should just follow the\n \* following recipe:\n \*\n \* Let's say you have an AngularJS service:\n \*\n \* { @example upgrade/static/ts/full/module.ts region='ng1-text-formatter-service'}\n \*\n \* Then you should define an Angular provider to be included in your `NgModule` `providers`\n \* property.\n \*\n \* { @example upgrade/static/ts/full/module.ts region='upgrade-ng1-service'}\n \*\n \*





```

injector on the DOM, so that it can be \"required\"
element(element$1).data(controllerKey(INJECTOR_KEY), _this.injector); // Wire up the ng1
rootScope to run a digest cycle whenever the zone settles // We need to do this in the next tick so that
we don't prevent the bootup // stabilizing setTimeout(function () { var
$scope = $injector.get('$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();
}
}
return $rootScope.$digest(); });
$scope.$on('$destroy', function () { subscription.unsubscribe(); }, 0);
}); var upgradeModule = module_(UPGRADE_MODULE_NAME,
[INIT_MODULE_NAME].concat(modules)); // Make sure resumeBootstrap() only exists if the current
bootstrap is deferred var windowAngular = window['angular']; windowAngular.resumeBootstrap =
undefined; // Bootstrap the AngularJS application inside our zone this.ngZone.run(function () {
bootstrap(element$1, [upgradeModule.name], config); }); // Patch resumeBootstrap() to run inside the
ngZone if (windowAngular.resumeBootstrap) { var originalResumeBootstrap_1 =
windowAngular.resumeBootstrap; var ngZone_1 = this.ngZone;
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; }());
/**
 * @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
 * // This file only re-exports items to appear in the public api. Keep it that
 * way.
 * @license
 * Copyright
 * Google Inc. All Rights Reserved.
 * Use of this source code is governed by an MIT-style license that can
 * be found in the LICENSE file at https://angular.io/license
 * // Generated bundle index. Do
 * not edit.
 * exports.UpgradeComponent = UpgradeComponent; exports.UpgradeModule =
UpgradeModule;
exports.VERSION = VERSION; exports.downgradeComponent =
downgradeComponent;
exports.downgradeInjectable = downgradeInjectable; exports.downgradeModule =
downgradeModule;
exports.getAngularJSGlobal = getAngularJSGlobal; exports.getAngularLib =
getAngularLib;
exports.setAngularJSGlobal = setAngularJSGlobal; exports.setAngularLib =
setAngularLib;
exports.angular_packages_upgrade_static_a = injectorFactory;
exports.angular_packages_upgrade_static_b = rootScopeFactory;
exports.angular_packages_upgrade_static_c = compileFactory;
exports.angular_packages_upgrade_static_d
= parseFactory; exports.angular_packages_upgrade_static_e = angular1Providers;
Object.defineProperty(exports, '__esModule', { value: true });
//# sourceMappingURL=upgrade-static.umd.js.map

```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-zip/bundles/upgrade-static.umd.min.js.map
```

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

{ "version":3,"sources":["packages/upgrade/upgrade.umd.js"],"names":["global","factory","exports","module","require","define","amd","self","ng","upgrade","core","platformBrowserDynamic","this","VERSION","Version","extendsStatics","d","b","Object","setPrototypeOf","\_\_proto\_\_","Array","p","hasOwnProperty","\_\_extends","\_\_","constructor","prototype","create","\_\_assign","assign","t","s","i","n","arguments","length","call","apply","\_\_decorate","decorators","target","key","desc","c","r","getOwnPropertyDescriptor","Reflect","decorate","defineProperty","\_\_metadata","metadataKey","metadataValue","metadata","\_\_read","o","m","Symbol","iterator","e","ar","next","done","push","value","error","noNg","Error","noNgElement","cleanData","angular","bootstrap","element","injector","version","undefined","resumeBootstrap","getTestability","window","\_a","nodes","\$COMPILE","\$CONTROLLER","\$INJECTOR","\$SCOPE","DOWNGRADED\_MODULE\_COUNT\_KEY","INJECTOR\_KEY","UPGRADE\_APP\_TYPE\_KEY","REQUIRE\_INJECTOR","PropertyBinding","prop","attr","parseBinding","bracketAttr","parenAttr","bracketParenAttr","capitalAttr","charAt","toUpperCase","substr","onAttr","bindAttr","bindonAttr","DIRECTIVE\_PREFIX\_REGEX","DIRECTIVE\_SPECIAL\_CHARS\_REGEX","onError","console","stack","log","controllerKey","name","getTypeName","type","overriddenName","toString","split","getDowngradedModuleCount","\$injector","has","get","getUpgradeAppType","isFunction","validateInjectionKey","downgradedModule","injectionKey","attemptedAction","upgradeAppType","downgradedModuleCount","Deferred","\_this","promise","Promise","res","rej","resolve","reject","strictEquals","val1","val2","\_matches","INITIAL\_VALUE","\_\_UNINITIALIZED\_\_","DowngradeComponentAdapter","attrs","scope","ngModel","parentInjector","\$compile","\$parse","componentFactory","wrapCallback","implementsOnChanges","inputChangeCount","inputChanges","componentScope","\$new","compileContents","compiledProjectableNodes","linkFns","groupProjectableNodes","map","empty","forEach","linkFn","clone","append","createComponent","projectableNodes","childInjector","Injector","providers","provide","useValue","parent","componentRef","viewChangeDetector","ChangeDetectorRef","changeDetector","changeDetectorRef","component","instance","testability","Testability","TestabilityRegistry","registerApplication","location","nativeElement","hookupNgModel","supportsNgModel","writeValue","registerOnChange","\$render","\$viewValue","\$setViewValue","bind","registerOnTouched","\$setTouched","setupInputs","manuallyAttachView","propagateDigest","inputs","\_loop\_1","prevValue","input","propName","templateName","expr","observeFn\_1","currValue","updateInput","\$observe","unwatch\_1","this\_1","\$watch","watchFn","detectChanges","componentType","ngOnChanges","markForCheck","unwatch\_2","ApplicationRef","attachView","hostView","setupOutputs","outputs","j","output","substring","subscribeToOutput","isAssignment","getter","setter","emitter","subscribe","v","\$event","registerCleanup","testabilityRegistry","destroyComponentRef","destroy","destroyed","on","\$destroy","\$on","unregisterApplication","getInjector","SimpleChange","groupNodesBySelector","ngContentSelectors","ii","jj","node","ngContentIndex","findMatchingNgContentIndex","contents","ngContentIndices","wildcardNgContentIndex","selector","matchesSelector","sort","el","elProto","Element","matches","mozMatchesSelector","msMatchesSelector","oMatchesSelector","webkitMatchesSelector","nodeType","Node","ELEMENT\_NODE","SyncPromise","resolved","callbacks","all","valuesOrPromises","aggrPromise","resolvedCount","results","idx","isThenable","obj","then","callback","ParentInjectorPromise","\_super","injectionKey","data","REQUIRE\_PREFIX\_RE","UpgradeHelper","elementRef","directive","\$controller","\$element","getDirective","directives","compile","link","notSupported","replace","terminal","getTemplate","fetchRemoteTemplate","template","getOrCall","templateUrl","\$templateCache\_1","url\_1","\$httpBackend","status","response","put","buildController","controllerType","\$scope","controller","controllerAs","compileTemplate","compileHtml","onDestroy","controllerInstance","\$onDestroy","querySelectorAll","prepareTransclusion","transclude","contentChildNodes","extractChildNodes","attachChildrenFn","cloneAttachFn","\$template","slots\_1","slotMap\_1","filledSlots\_1","keys","slotName","optional","directiveNormalize","\_","letter","nodeName","toLowerCase","filter","cloneAttach","\$\$slots","TEXT\_NODE","nodeValue","resolveAndBindRequiredControllers","directiveRequire","getDirectiveRequire","requiredControllers","resolveRequire","bindToController","isMap","requiredControllersMap\_1","html","innerHTML","childNodes","childNode","firstChild","removeChild","match","isArray","req","value\_1","inheritType","name\_1","isOptional","searchParents","startOnParent","ctrlKey","elem","inheritedData","property","args","\_i","\_\_spread","concat","feature","CAMEL\_CASE","INITIAL\_VALUE\$1","UpgradeNg1ComponentAdapterBuilder","inputsRename","outputsRename","propertyOutputs","checkProperties","propertyMap","MyClass","decorator","Directive","jit","Inject","ElementRef","UpgradeNg1ComponentAdapter","extractBindings","btcIsObject","context","definition","bindingType","bind



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kR,EA AoBnS,GACtE,IAAIoS,EA AWvY,OAAO2T,KAAK2E,GAAoBxP,KAAI,SA AUID,GACzD,IAAI4S,EA Ao BF,EA AmB1S,GAG3C,OAF A4S,EA AkBvH,UAA YF,EA AcK,aAAajL,EA AWP,GACpE4S,EA AkBjB,kBACXtQ,QACFG,QAAQ2J,EA AcY,YAA YxL,EA AWqS,EA AkBvH,WAA W,IAC1ET,MAAK,SA AUqB,GA AY,OAAO2G,EA AkB3G,SA AWA,QA ExE,OAAO5K,QAAQ+I,IAAIuI,IAEHb7B,EA/F2C,GA iGIDY,EA A4C,WAC5C,SA ASA,EA A2BmB,EA AQ3Q,EA AO+J,EA AUvG,EA AQwB,EA AS4L,EA AU5B,EA AiBC,GACrGrX,KAAK+Y,OA ASA,EA Cd/Y,KAAKms,SA AWA,EAC hBnS,KAAK4L,OA ASA,EACd5L,KAAKoN,QAAUA,EACfpN,KAAKgZ,SA AWA,EAC hBhZ,KAAKoX,gBA AkBA,EACvBpX,KAAKqX,YAAcA,EACnBrX,KAAKoT,mBA AqB,KAC1BpT,KAAKiZ,eAAiB,KACtBjZ,KAAKkZ,gBA AkB,GACvBIZ,KAAKyR,SA AW,KAC hBzR,KAAKuR,UAA YwH,EA OxH,UACxBvR,KAAK4D,QAAUmV,EA OnV,QACtB5D,KAAKyR,SA AWsH,EA AOtH,SACvBzR,KAAK8I,eAAiBV,EA AMW,OAAO/I,KAAKuR,UAAUnJ,OACID,IAAIyK,EA AiB7S,KAAKuR,UAAUwB,WAC hC/S,KAAKuR,UAAU4D,kBA AoBtC,GACnC7S,KAAKoT,mBA AqBpT,KAAK+Y,OAAOnG,gBA AgBC,EA AgB7S,KAAK8I,gBAC3E9I,KAAKiZ,eAAiBjZ,KAAKoT,oBAG3BpT,KAAKiZ,eAAiBjZ,KAAK8I,eAE/B,IAAK,IAAIzH,EA AI,EAAGA,EA AIuK,EA AOpK,OAAQH,IAC/BrB,KAAK4L,EA AOvK,IAAM,KA EtB,IAAK,IAAIgM,EA AI,EAAG A,EA AID,EA AQ5L,OAAQ6L,IAAK,CACrC,IAAIO,EA AU5N,KAAKoN,EA AQC,IAAM,IAAIvN,EA AKqZ,cACC,IAAvCnZ,KAAKgZ,SA ASI,QAAQhM,EA AQC,KAC9BrN,KAAKqZ,qBA AqBjM,EA AQC,GA AI,SA AWO,GA AW,OAAO,SA AUxK,GA AS,OAAOwK,EA AQ0L,KAAKIW,IA ApE,CA AkFwK,IA GhI,IAAK,IAAI2L,EA AI,EA AGA,EA AIP,EA ASxX,OAAQ+X,IACjCvZ,KAAKkZ,gBA AgB/V,KAAK4T,GAuEIC,OApEAa,EA A2B7W,UAAUyY,SA AW,WAE5C,IAAIC,EA AmBzZ,KAAK+Y,OAAOxF,sBAC/BhK,EA ASvJ,KAAK+Y,OAAO9F,gBA AgBjT,KAAKms,UAE1CU,EA AiB7S,KAAKuR,UAAUwB,WAEhCF,IADmB7S,KAAKuR,UAAU4D,mBA EIcnV,KAAKoT,mBA AqBpT,KAAK+Y,OAAOnG,gBA AgBC,EA AgB7S,KAAK8I,iBAG/E,IAAI mM,EA ASbjV,KAAK+Y,OAAOjE,kCA AkC9U,KAAKoT,oBA EzEpT,KAAKoT,oBA AsBvM,EA AW7G,KAAKoT,mBA AmBsG,UAC9D1Z,KAAKoT,mBA AmBsG,UAG5B,IAAI7H,EA AO7R,KAAKuR,UAAUM,KACtB8H,EA AyB,iBAAR9H,GA AoBA,EA AK+H,IAC1CC,EA A0B,iBAARhI,EA AmBA,EA AKiI,KAAOjI,EAGjd8H,GACAA,EA AQ3Z,KAAK8I,eAAgB9I,KAAKyR,SA/J1B,gBA+J2CwD,EA/J3C,iBAiKZ1L,EA AOvJ,KAAK8I,eAAgB,KAAM,CAAEiR,wBA AyBN,IACzDI,GACAA,EA AS7Z,KAAK8I,eAAgB9I,KAAKyR,SAnK3B,gBA mK4CwD,EAnK5C,iBA sKRjV,KAAKoT,oBA AsBvM,EA AW7G,KAAKoT,mBA AmB4G,YAC9Dha,KAAKoT,mBA AmB4G,aAGhCpC,EA A2B7W,UAAU8L,YAAc,SA AUoN,GACzD,IAAI5S,EA AQRh,KACRka,EA Aa,GACjB5Z,OAAO2T,KAAKgG,GA AS3Q,SA AQ,SA AU pD,GACnC,IAAIuI,EA ASF,EA AQ/T,GACrBmB,EA AMgS,qBA AqBnT,EA AMiU,EA AOC,cACxCF,EA AW7S,EA AMgQ,YAA YnR,IA ASiU,KA EtCtT,EA AW7G,KAAKiZ,eAAeoB,aAC/Bra,KAAKiZ,eAAeoB,WAAWH,IAGvCtC,EA A2B7W,UAAUuZ,UAA Y,WAC7C,IAAIjT,EA AQRh,KACriZ,EA AiBjZ,KAAKiZ,eACtBsB,EA Aava,KAAKkZ,gBA EIbf,EA AW hZ,KAAKgZ,SA DEhZ,KAAKoX,gBA EX9N,SA AQ,SA AU0C,EA AU3K,GACx C,IAAI+B,EA AQ6V,EA AejN,GA EtBpE,EADM2S,EA AWIZ,GACE+B,IACDiE,EA AM2R,EA AS3X,IACrBiY,KAAKiB,EA AWIZ,GA AK+B,MAGtCpD,KAAKoT,oBA AsBvM,EA AW7G,KAAKoT,mBA AmBoH,WAC9Dxa,KAAKoT,mBA AmBoH,YAGhC5C,EA A2B7W,UAAU0Z,YAAc,WAAcza,KAAK+Y,OAAO5F,UAAUnT,KAAK8I,eAAgB9I,KAAKoT,qBACjHwE,EA A2B7W,UAAUsY,qBA AuB,SA AU nT,EA AM9C,GACx EpD,KAAKiZ,eAAejZ,KAAKqX,YAA YnR,IA AS9C,GA E3CwU,EA IGoC,GA oH3C8C,EA Ae,EA mFfC,EA AgC,WAC hC,SA ASA,EA AeC,EA AcC,GAGbIC,GA fA7a,KAAK4a,aAAeA,EACpB5a,KAAK6a,gBA AkBA,EACvB7a,KAAK8a,SA AW,eAAiBJ,IAAiB,IACID1a,KAAK+a,qBA AuB,GAS5B/a,KAAKgb,0BAA4B,GACjChb,KAAKib,kBA AoB,GACzBjb,KAAKkb,UAA Y,MACZN,EACD,MAAM,IAAIrX,MAAM,iFAoexB,OArA oX,EA Ae5Z,UAAUoa,sBA AwB,SA AU5Q,GA EvD,OADA vK,KAAK+a,qBA AqB5X,KAAKoH,GA v2BvC,SA AS6Q,EA AmBC,GACxB,IAAIC,EA AmB,SA AU/S,EA AU9B,EA AW+B,GASID,IAEI+S,EAFAC,EA AmD,IAAjC5U,EA AkBH,GACpCiC,EA AgB8S,EA AiD,SA AUc,GAAM,OAAO,WAAc,OAAO3b,EA AK4b,OAAOC,kBA AoBF,IAAOF,EA AOK,IAAIH,KAA7H,SA AUA,GAAM,OAAOA,GAGzDI,EA A+BL,GA AoBhV,EA AyBC,GAAa,EAC7F,MAAO,CACHqV,SA AU,IA CV9J,UAAU,EACVxS,QAAS,CAACoF,EA9hBC,YA+hBXiN,KAAM,SA AUzJ,EA AOxE,EA ASuE,EA AO4T,GA InC,IAAI1T,EA AU0T,EA AS,GACnBzT,EA AiByT,EA AS,GAC1BC,OAAiBjY,EACjBkY,GA AW,EACf,IAAK3T,GA AkBuT,EA A8B,CACjD,IAAI9U,EA AmBsU,EA AKtU,kBA AoB,GAC5CmV,EA7iBF,yBA6iB4CnV,EAC1CE,EA AkB,4BAA8Bd,EA AYkV,EA AK9Q,WAAa,IACIFzD,EA AqBL,EA AWM,EA AkBmV,EA AkBjV,GACpE,IAA IkV,EA AgB1V,EA AUE,IAAIuV,GACICF,EA AiBG,EA ActY,UAA YsY,EA Ac7U,QAmC7D,IAKI8U,EA Ac,SA A

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* @license Angular v9.0.7\n * (c) 2010-2020 Google LLC. https://angular.io\n * License: MIT\n *\n(function\n(global, factory) {\n  typeof exports === 'object' && typeof module !== 'undefined' ? factory(exports,\nrequire('@angular/core'), require('@angular/platform-browser-dynamic')) :\n  typeof define === 'function' &&\n  define.amd ? define('@angular/upgrade', ['exports', '@angular/core', '@angular/platform-browser-dynamic'], factory)\n  :\n  (global = global || self, factory((global.ng = global.ng || {}), global.ng.upgrade = {}), global.ng.core,\nglobal.ng.platformBrowserDynamic));\n})(this,
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(function (exports, core, platformBrowserDynamic) { 'use strict';\n\n  /**\n   * @license\n   * Copyright Google\n   * Inc. All Rights Reserved.\n   * Use of this source code is governed by an MIT-style license that can be\n   * found in the LICENSE file at https://angular.io/license\n   *\n   * @publicApi\n   *\n   var VERSION =\nnew core.Version('9.0.7');\n  */
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/* global Reflect, Promise */\r\nvar extendStatics = function(d, b) {\r\n  extendStatics =\nObject.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\nfunction __extends(d, b) {\r\n  extendStatics(d, b);\r\n  function __() { this.constructor = d; }\r\n  d.prototype = b === null ? Object.create(b) : (__proto__ = b.prototype, new __());\r\n}\r\n\r\nvar __assign
```

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= 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\n    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.getPrototypeOfSymbols === "function")\r\n            for (var i = 0, p =
Object.getPrototypeOfSymbols(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\n    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\n    function
__param(paramIndex, decorator) {\r\n        return function (target, key) { decorator(target, key, paramIndex); }\r\n    }
}\r\n\r\n    function __metadata(metadataKey, metadataValue) {\r\n        if (typeof Reflect === "object" && typeof
Reflect.metadata === "function") return Reflect.metadata(metadataKey, metadataValue);\r\n    }\r\n\r\n    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 step(result) { result.done ? resolve(result.value) : new P(function (resolve) {
resolve(result.value); }).then(fulfilled, rejected); }\r\n            step((generator = generator.apply(thisArg, _arguments
|| []).next()));\r\n        });\r\n    }\r\n\r\n    function __generator(thisArg, body) {\r\n        var _ = { label: 0, sent:
function() { if (t[0] & 1) throw t[1]; return t[1]; }, trys: [], ops: [] }, f, y, t, g;\r\n        return g = { next: verb(0),
"throw": verb(1), "return": verb(2) }, typeof Symbol === "function" && (g[Symbol.iterator] = function() {
return this; }), g;\r\n        function verb(n) { return function (v) { return step([n, v]); }; }\r\n        function step(op)
{\r\n            if (f) throw new TypeError("Generator is already executing.");\r\n            while (_) try {\r\n
                if (f = 1, y && (t = op[0] & 2 ? y["return"] : op[0] ? y["throw"] || ((t = y["return"]) && t.call(y), 0) :
y.next) && !(t = t.call(y, op[1])).done) return t;\r\n                if (y = 0, t) op = [op[0] & 2, t.value];\r\n
switch (op[0]) {\r\n                    case 0: case 1: t = op; break;\r\n                    case 4: _.label++; return { value: op[1],
done: false }; \r\n                    case 5: _.label++; y = op[1]; op = [0]; continue;\r\n                    case 7: op =
_.ops.pop(); _.trys.pop(); continue;\r\n                    default:\r\n                        if (!(t = _.trys, t = t.length > 0 &&
t[t.length - 1]) && (op[0] === 6 || op[0] === 2)) { _ = 0; continue; }\r\n                        if (op[0] === 3 && (!t ||
(op[1] > t[0] && op[1] < t[3]))) { _.label = op[1]; break; }\r\n                        if (op[0] === 6 && _.label < t[1]) {
_.label = t[1]; t = op; break; }\r\n                        if (t && _.label < t[2]) { _.label = t[2];
_.ops.push(op); break; }\r\n                        if (t[2] && !_.ops.pop())\r\n                            _.trys.pop(); continue;\r\n
}\r\n                    op = body.call(thisArg, _);\r\n                } catch (e) { op = [6, e]; y = 0; } finally { f = t = 0; }\r\n
if (op[0] & 5) throw op[1]; return { value: op[0] ? op[1] : void 0, done: true }; }\r\n        }\r\n\r\n    function
__exportStar(m, exports) {\r\n        for (var p in m) if (!exports.hasOwnProperty(p)) exports[p] = m[p];\r\n    }
}\r\n\r\n    function __values(o) {\r\n        var m = typeof Symbol === "function" && o[Symbol.iterator], i = 0;\r\n        if (m) return m.call(o);\r\n        return { value: o && o[i++], done: !o }; }\r\n    }\r\n\r\n    function __read(o, n)
{\r\n        var m = typeof Symbol === "function" && o[Symbol.iterator];\r\n        if (!m) return o;\r\n        var i = m.call(o), r, ar = [], e;\r\n        try {\r\n            while ((n === void 0 || n-- > 0) &&
!(r = i.next()).done) ar.push(r.value);\r\n        }\r\n        catch (error) { e = { error: error }; }\r\n        finally {\r\n            try {\r\n                if (r && !r.done && (m = i["return"])) m.call(i);\r\n            }\r\n            finally { if (e) throw
e.error; }\r\n        }\r\n        return ar;\r\n    }\r\n\r\n    function __spread() {\r\n        for (var ar = [], i = 0; i <
arguments.length; i++)\r\n            ar = ar.concat(__read(arguments[i]));\r\n        return ar;\r\n    }\r\n\r\n    function

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__spreadArrays() {\r\n    for (var s = 0, i = 0, il = arguments.length; i < il; i++) s += arguments[i].length;\r\n
for (var r = Array(s), k = 0, i = 0; i < il; i++)\r\n    for (var a = arguments[i], j = 0, jl = a.length; j < jl; j++,
k++)\r\n    r[k] = a[j];\r\n    return r;\r\n    };\r\n\r\n function
__await(v) {\r\n    return this instanceof __await ? (this.v = v, this) : new __await(v);\r\n    }\r\n\r\n function
__asyncGenerator(thisArg, _arguments, generator) {\r\n    if (!Symbol.asyncIterator) throw new
TypeError("Symbol.asyncIterator is not defined.");\r\n    var g = generator.apply(thisArg, _arguments || []), i, q =
[];\r\n    return i = { }, verb("next"), verb("throw"), verb("return"), i[Symbol.asyncIterator] = function () {
return this; }, i;\r\n    function verb(n) { if (g[n]) i[n] = function (v) { return new Promise(function (a, b) {
q.push([n, v, a, b]) > 1 || resume(n, v); }); }; }\r\n    function resume(n, v) { try { step(g[n](v)); } catch (e) {
settle(q[0][3], e); } }\r\n    function step(r) { r.value instanceof __await ? Promise.resolve(r.value.v).then(fulfill,
reject) : settle(q[0][2], r); }\r\n    function fulfill(value) { resume("next", value); }\r\n    function reject(value)
{ resume("throw", value); }\r\n
function settle(f, v) { if (f(v), q.shift(), q.length) resume(q[0][0], q[0][1]); }\r\n    }\r\n\r\n function
__asyncDelegator(o) {\r\n    var i, p;\r\n    return i = { }, verb("next"), verb("throw"), function (e) { throw e;
}), verb("return"), i[Symbol.iterator] = function () { return this; }, i;\r\n    function verb(n, f) { i[n] = o[n] ?
function (v) { return (p = !p) ? { value: __await(o[n](v)), done: n === "return" } : f ? f(v) : v; } : f; }\r\n    }\r\n\r\n
function __asyncValues(o) {\r\n    if (!Symbol.asyncIterator) throw new TypeError("Symbol.asyncIterator is not
defined.");\r\n    var m = o[Symbol.asyncIterator], i;\r\n    return m ? m.call(o) : (o = typeof __values ===
"function" ? __values(o) : o[Symbol.iterator](), i = { }, verb("next"), verb("throw"), verb("return")),
i[Symbol.asyncIterator] = function () { return this; }, i;\r\n    function verb(n) { i[n] = o[n] && function (v) {
return new Promise(function (resolve, reject)
{ v = o[n](v), settle(resolve, reject, v.done, v.value); }); }; }\r\n    function settle(resolve, reject, d, v) {
Promise.resolve(v).then(function(v) { resolve({ value: v, done: d }); }, reject); }\r\n    }\r\n\r\n function
__makeTemplateObject(cooked, raw) {\r\n    if (Object.defineProperty) { Object.defineProperty(cooked, "raw",
{ value: raw }); } else { cooked.raw = raw; }\r\n    return cooked;\r\n    };\r\n\r\n function __importStar(mod)
{\r\n    if (mod && mod.__esModule) return mod;\r\n    var result = {};\r\n    if (mod != null) for (var k in
mod) if (Object.hasOwnProperty.call(mod, k)) result[k] = mod[k];\r\n    result.default = mod;\r\n    return
result;\r\n    }\r\n\r\n function __importDefault(mod) {\r\n    return (mod && mod.__esModule) ? mod : {
default: mod };}\r\n    }\n\n /**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use
of this source code is governed by an MIT-style license that
can be\n * found in the LICENSE file at https://angular.io/license\n * ^\n function noNg() {\n    throw new
Error('AngularJS v1.x is not loaded!');\n    }\n    var noNgElement = (function () { return noNg(); });\n
noNgElement.cleanData = noNg;\n    var angular = {\n    bootstrap: noNg,\n    module: noNg,\n    element:
noNgElement,\n    injector: noNg,\n    version: undefined,\n    resumeBootstrap: noNg,\n    getTestability:
noNg\n    };\n    try {\n    if (window.hasOwnProperty('angular')) {\n    angular = window.angular;\n    }\n    }\n    catch (_a) {\n    // ignore in CJS mode.\n    }\n    /**\n * @deprecated Use `setAngularJSGlobal`
instead.\n * \n * @publicApi\n * ^\n function setAngularLib(ng) {\n    setAngularJSGlobal(ng);\n    }\n
/**\n * @deprecated Use `getAngularJSGlobal` instead.\n * \n * @publicApi\n * ^\n function
getAngularLib() {\n    return getAngularJSGlobal();\n    }\n    }\n    /**\n * Resets the AngularJS global.\n * \n * Used when AngularJS is loaded lazily, and not available
on `window`.\n * \n * @publicApi\n * ^\n function setAngularJSGlobal(ng) {\n    angular = ng;\n    }\n
/**\n * Returns the current AngularJS global.\n * \n * @publicApi\n * ^\n function getAngularJSGlobal()
{\n    return angular;\n    }\n    var bootstrap = function (e, modules, config) {\n    return angular.bootstrap(e,
modules, config);\n    };\n    // Do not declare as `module` to avoid webpack bug\n    // (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);

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};\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 * 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 * 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 = /[:\|-\_]+(.)?/; \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:no-console\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)
? $injector.get(DOWNGRADED_MODULE_COUNT_KEY) : 0;\n  } \n  function
getUpgradeAppType($injector) {\n    return $injector.has(UPGRADE_APP_TYPE_KEY) ?
$injector.get(UPGRADE_APP_TYPE_KEY) : 0 /* None */;\n  } \n  function isFunction(value) {\n
return typeof value === 'function';\n  } \n  function validateInjectionKey($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
(downgradedModule) {\n            throw new Error("Error while " + attemptedAction + ": 'downgradedModule'
unexpectedly specified.\\n") +\n              'You should not specify a value for `downgradedModule`, unless

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you are downgrading ' +\n          'more than one Angular module (via \''downgradeModule()\|'.');\n
}\n      break;\n      case 3 /* Lite */:\n          if (!downgradedModule && (downgradedModuleCount
>= 2)) {\n          throw new Error('\|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          if (!$injector.has(injectionKey)) {\n          throw new Error('\|Error
while \| + attemptedAction + \|': 'Unable to find the specified downgraded module.\|n\| +\n          'Did you
forget to downgrade an Angular module or include it in the AngularJS ' +\n          'application?');\n
}\n      break;\n
      default:\n          throw new Error('\|Error while \| + attemptedAction + \|': 'Not a valid '@angular/upgrade'
application.\|n\| +\n          'Did you forget to downgrade an Angular module or include it in the AngularJS '
+\n          'application?');\n      }\n      }\n      var Deferred = /** @class */ (function () {\n      function
Deferred() {\n          var _this = this;\n          this.promise = new Promise(function (res, rej) {\n
_this.resolve = res;\n          _this.reject = rej;\n          });\n          }\n          return Deferred;\n      }());\n      /**\n      *
@return Whether the passed-in component implements the subset of the\n      * `ControlValueAccessor` interface
needed for AngularJS `ng-model`\n      * compatibility.\n      */\n      function supportsNgModel(component) {\n
return typeof component.writeValue === 'function' &&\n          typeof component.registerOnChange ===
'function';\n      }\n
      /**\n      * Glue the AngularJS `NgModelController` (if it exists) to the component\n      * (if it implements the
needed subset of the `ControlValueAccessor` interface).\n      */\n      function hookupNgModel(ngModel, component)
{\n          if (ngModel && supportsNgModel(component)) {\n          ngModel.$render = function () {\n
component.writeValue(ngModel.$viewValue); }\n
          component.registerOnChange(ngModel.$setViewValue.bind(ngModel));\n          if (typeof
component.registerOnTouched === 'function') {\n
          component.registerOnTouched(ngModel.$setTouched.bind(ngModel));\n          }\n          }\n          }\n      /**\n      * Test
two values for strict equality, accounting for the fact that `NaN !== NaN`.\n      */\n      function strictEquals(val1,
val2) {\n          return val1 === val2 || (val1 !== val1 && val2 !== val2);\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 INITIAL_VALUE =
{\n          __UNINITIALIZED__: true\n      };\n      var DowngradeComponentAdapter = /** @class */ (function () {\n
function DowngradeComponentAdapter(element, attrs, scope, ngModel, parentInjector, $injector, $compile,
$scope, componentFactory, wrapCallback) {\n          this.element = element;\n          this.attrs = attrs;\n
this.scope = scope;\n          this.ngModel = ngModel;\n          this.parentInjector = parentInjector;\n
this.$injector = $injector;\n          this.$compile = $compile;\n          this.$scope = $scope;\n
this.componentFactory = componentFactory;\n          this.wrapCallback = wrapCallback;\n
this.implementsOnChanges = false;\n          this.inputChangeCount = 0;\n          this.inputChanges = {};\n
this.componentScope = scope.$new();\n          }\n          DowngradeComponentAdapter.prototype.compileContents
= function () {\n          var _this = this;\n          var compiledProjectableNodes = [];\n          var projectableNodes
= this.groupProjectableNodes();\n          var linkFns = projectableNodes.map(function (nodes) { return
_this.$compile(nodes); });\n          this.element.empty();\n          linkFns.forEach(function (linkFn) {\n
linkFn(_this.scope, function (clone) {\n          compiledProjectableNodes.push(clone);\n
_this.element.append(clone);\n          });\n          });\n          return compiledProjectableNodes;\n          };\n
          DowngradeComponentAdapter.prototype.createComponent = function (projectableNodes) {\n          var providers
= [{ provide: $SCOPE, useValue: this.componentScope }];\n          var childInjector = core.Injector.create({
providers: providers, parent: this.parentInjector, name: 'DowngradeComponentAdapter'});\n
          this.componentRef =\n
          this.componentFactory.create(childInjector, projectableNodes, this.element[0]);\n
          this.viewChangeDetector = this.componentRef.injector.get(core.ChangeDetectorRef);\n          this.changeDetector

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= this.componentRef.changeDetectorRef;\n      this.component = this.componentRef.instance;\n      //
testability hook is commonly added during component bootstrap in\n      //
packages/core/src/application_ref.bootstrap()\n      // in downgraded application, component creation will take
place here as well as adding the\n      // testability hook.\n      var testability =
this.componentRef.injector.get(core.Testability, null);\n      if (testability) {\n
this.componentRef.injector.get(core.TestabilityRegistry)\n
.registerApplication(this.componentRef.location.nativeElement, testability);\n      }\n
hookupNgModel(this.ngModel, this.component);\n      };\n
DowngradeComponentAdapter.prototype.setupInputs
= function (manuallyAttachView, propagateDigest) {\n      var _this = this;\n      if (propagateDigest ===
void 0) { propagateDigest = true; }\n      var attrs = this.attrs;\n      var inputs = this.componentFactory.inputs
|| [];\n      var _loop_1 = function (i) {\n      var input = new PropertyBinding(inputs[i].propName,
inputs[i].templateName);\n      var expr = null;\n      if (attrs.hasOwnProperty(input.attr)) {\n
var observeFn_1 = (function (prop) {\n      var prevValue = INITIAL_VALUE;\n      return
function (currValue) {\n      // Initially, both `observe()` and `watch()` will call this function.\n
if (!strictEquals(prevValue, currValue)) {\n      if (prevValue === INITIAL_VALUE) {\n
prevValue = currValue;\n
      }\n      _this.updateInput(prop, prevValue, currValue);\n
prevValue = currValue;\n      }\n      };\n      })(input.prop);\n
attrs.$observe(input.attr, observeFn_1);\n      // Use `watch()` (in addition to `observe()`) in order to
initialize the input in time\n      // for `ngOnChanges()`. This is necessary if we are already in a `digest`,
which means that\n      // `ngOnChanges()` (which is called by a watcher) will run before the `observe()
callback.\n      var unwatch_1 = this._1.componentScope.$watch(function () {\n
unwatch_1();\n      unwatch_1 = null;\n      observeFn_1(attrs[input.attr]);\n      });\n
      }\n      else if (attrs.hasOwnProperty(input.bindAttr)) {\n
expr = attrs[input.bindAttr];\n      }\n      else if (attrs.hasOwnProperty(input.bracketAttr)) {\n
expr = attrs[input.bracketAttr];\n      }\n      else if (attrs.hasOwnProperty(input.bindonAttr)) {\n
expr = attrs[input.bindonAttr];\n      }\n      else if (attrs.hasOwnProperty(input.bracketParenAttr))
{\n      expr = attrs[input.bracketParenAttr];\n      }\n      if (expr != null) {\n      var
watchFn = (function (prop) { return function (currValue, prevValue) {\n      return
_this.updateInput(prop, prevValue, currValue);\n      }; })(input.prop);\n
this._1.componentScope.$watch(expr, watchFn);\n      }\n      };\n      var this_1 = this;\n      for (var
i = 0; i < inputs.length; i++) {\n      _loop_1(i);\n      }\n      // Invoke `ngOnChanges()
and Change Detection (when necessary)\n      var detectChanges = function () { return
_this.changeDetector.detectChanges(); };\n      var prototype =
this.componentFactory.componentType.prototype;\n      this.implementsOnChanges = !(prototype &&
prototype.ngOnChanges);\n      this.componentScope.$watch(function () { return _this.inputChangeCount; },
this.wrapCallback(function () {\n      // Invoke `ngOnChanges()`\n      if (_this.implementsOnChanges)
{\n      var inputChanges = _this.inputChanges;\n      _this.inputChanges = {};\n
_this.component.ngOnChanges(inputChanges);\n      }\n
_this.viewChangeDetector.markForCheck();\n      // If opted out of propagating digests, invoke change
detection when inputs change.\n      if (!propagateDigest) {\n      detectChanges();\n      }\n
      }));\n      // If not opted
out of propagating digests, invoke change detection on every digest\n      if (propagateDigest) {\n
this.componentScope.$watch(this.wrapCallback(detectChanges);\n      }\n      // If necessary, attach the view
so that it will be dirty-checked.\n      // (Allow time for the initial input values to be set and `ngOnChanges()
to be called.)\n      if (manuallyAttachView || !propagateDigest) {\n      var unwatch_2 =
this.componentScope.$watch(function () {\n      unwatch_2();\n      unwatch_2 = null;\n

```



```

var appRef = _this.parentInjector.get(core.ApplicationRef);\n
appRef.attachView(_this.componentRef.hostView);\n        });\n        }\n        });\n
DowngradeComponentAdapter.prototype.setupOutputs = function () {\n        var attrs = this.attrs;\n        var\n
outputs = this.componentFactory.outputs || [];\n        for (var j = 0; j < outputs.length;\n
j++) {\n        var output = new PropertyBinding(outputs[j].propName, outputs[j].templateName);\n
var bindonAttr = output.bindonAttr.substring(0, output.bindonAttr.length - 6);\n        var bracketParenAttr =\n
\"[(\" + output.bracketParenAttr.substring(2, output.bracketParenAttr.length - 8) + \")]\";\n        // order below is\n
important - first update bindings then evaluate expressions\n        if (attrs.hasOwnProperty(bindonAttr)) {\n        this.subscribeToOutput(output, attrs[bindonAttr], true);\n        }\n        if\n
(attrs.hasOwnProperty(bracketParenAttr)) {\n        this.subscribeToOutput(output, attrs[bracketParenAttr],\n
true);\n        }\n        if (attrs.hasOwnProperty(output.onAttr)) {\n        this.subscribeToOutput(output, attrs[output.onAttr]);\n        }\n        if\n
(attrs.hasOwnProperty(output.parenAttr)) {\n        this.subscribeToOutput(output,\n
attrs[output.parenAttr]);\n        }\n        }\n        }\n        });\n
DowngradeComponentAdapter.prototype.subscribeToOutput = function (output, expr, isAssignment) {\n        var\n
_this = this;\n        if (isAssignment === void 0) { isAssignment = false; }\n        var getter =\n
this.$parse(expr);\n        var setter = getter.assign;\n        if (isAssignment && !setter) {\n        throw new\n
Error(\"Expression \" + expr + \" is not assignable!\");\n        }\n        var emitter =\n
this.component[output.prop];\n        if (emitter) {\n        emitter.subscribe({\n        next: isAssignment\n
? function (v) { return setter(_this.scope, v); } : \n        function (v) { return getter(_this.scope, { '$event': v\n
}); }\n        });\n        }\n        else {\n        throw new Error(\"Missing emitter \" + output.prop + \" on\n
component \" + getTypeName(this.componentFactory.componentType)\n
+ \"!\");\n        }\n        }\n        DowngradeComponentAdapter.prototype.registerCleanup = function () {\n
var _this = this;\n        var testabilityRegistry = this.componentRef.injector.get(core.TestabilityRegistry);\n
var destroyComponentRef = this.wrapCallback(function () { return _this.componentRef.destroy(); });\n        var\n
destroyed = false;\n        this.element.on('$destroy', function () { return _this.componentScope.$destroy(); });\n
        this.componentScope.$on('$destroy', function () {\n        if (!destroyed) {\n        destroyed = true;\n
testabilityRegistry.unregisterApplication(_this.componentRef.location.nativeElement);\n
destroyComponentRef();\n        }\n        });\n        });\n
DowngradeComponentAdapter.prototype.getInjector = function () { return this.componentRef.injector; };\n
DowngradeComponentAdapter.prototype.updateInput\n
= function (prop, prevValue, currValue) {\n        if (this.implementsOnChanges) {\n
this.inputChanges[prop] = new core.SimpleChange(prevValue, currValue, prevValue === currValue);\n        }\n
        this.inputChangeCount++;\n        this.component[prop] = currValue;\n        });\n
DowngradeComponentAdapter.prototype.groupProjectableNodes = function () {\n        var ngContentSelectors =\n
this.componentFactory.ngContentSelectors;\n        return groupNodesBySelector(ngContentSelectors,\n
this.element.contents());\n        });\n        return DowngradeComponentAdapter;\n        }();\n        /**\n
 * Group a set of\n
DOM nodes into `ngContent` groups, based on the given content selectors.\n
 *^\n
function\n
groupNodesBySelector(ngContentSelectors, nodes) {\n        var projectableNodes = [];\n        var\n
wildcardNgContentIndex;\n        for (var i = 0, ii = ngContentSelectors.length; i < ii; ++i) {\n
projectableNodes[i]\n
= [];\n        }\n        for (var j = 0, jj = nodes.length; j < jj; ++j) {\n        var node = nodes[jj];\n        var\n
ngContentIndex = findMatchingNgContentIndex(node, ngContentSelectors);\n        if (ngContentIndex != null)\n
{\n        projectableNodes[ngContentIndex].push(node);\n        }\n        }\n        return projectableNodes;\n
}\n
function findMatchingNgContentIndex(element, ngContentSelectors) {\n        var ngContentIndices = [];\n
var wildcardNgContentIndex = -1;\n        for (var i = 0; i < ngContentSelectors.length; i++) {\n        var selector =\n
ngContentSelectors[i];\n        if (selector === '*') {\n        wildcardNgContentIndex = i;\n        }\n
        else {\n        if (matchesSelector(element, selector)) {\n        ngContentIndices.push(i);\n        }\n
}

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    }\n    }\n    ngContentIndices.sort();\n    if (wildcardNgContentIndex !== -1) {\n
      ngContentIndices.push(wildcardNgContentIndex);\n    }\n    return ngContentIndices.length ?\n
ngContentIndices[0] : null;\n  }\n  var _matches;\n  function matchesSelector(el, selector) {\n    if (!_matches)\n
{\n      var elProto = Element.prototype;\n      _matches = elProto.matches || elProto.matchesSelector ||\n
elProto.mozMatchesSelector ||\n      elProto.msMatchesSelector || elProto.oMatchesSelector ||\n
elProto.webkitMatchesSelector;\n    }\n    return el.nodeType === Node.ELEMENT_NODE ? _matches.call(el,\n
selector) : false;\n  }\n  /**\n   * @license\n   * Copyright Google Inc. All Rights Reserved.\n   * Use\n
of this source code is governed by an MIT-style license that can be\n   * found in the LICENSE file at\n
https://angular.io/license\n   */\n  function isThenable(obj) {\n    return !!obj && isFunction(obj.then);\n  }\n
/**\n   * Synchronous, promise-like object.\n   */\n  var SyncPromise =\n
/** @class */ (function () {\n    function SyncPromise() {\n      this.resolved = false;\n      this.callbacks =\n
[];\n    }\n    SyncPromise.all = function (valuesOrPromises) {\n      var aggrPromise = new\n
SyncPromise();\n      var resolvedCount = 0;\n      var results = [];\n      var resolve = function (idx, value)\n
{\n        results[idx] = value;\n        if (++resolvedCount === valuesOrPromises.length)\n
aggrPromise.resolve(results);\n      };\n      valuesOrPromises.forEach(function (p, idx) {\n        if\n
(isThenable(p)) {\n          p.then(function (v) { return resolve(idx, v); });\n        }\n        else {\n
          resolve(idx, p);\n        }\n      });\n      return aggrPromise;\n    };\n    SyncPromise.prototype.resolve = function (value) {\n      // Do nothing, if already resolved.\n      if\n
(this.resolved)\n        return;\n      this.value = value;\n      this.resolved = true;\n      // Run the queued callbacks.\n
this.callbacks.forEach(function (callback) { return callback(value); });\n      this.callbacks.length = 0;\n
};\n    SyncPromise.prototype.then = function (callback) {\n      if (this.resolved) {\n
callback(this.value);\n      }\n      else {\n        this.callbacks.push(callback);\n      }\n    };\n    return SyncPromise;\n  }());\n  /**\n   * @license\n   * Copyright Google Inc. All Rights Reserved.\n   * Use\n
of this source code is governed by an MIT-style license that can be\n   * found in the LICENSE file at\n
https://angular.io/license\n   */\n  /**\n   * @description\n   * A helper function that allows an Angular\n
component to be used from AngularJS.\n   * Part of the [upgrade/static](api?query=upgrade%2Fstatic)\n
library for hybrid upgrade apps that support AOT compilation.\n   * This helper function returns a\n
factory function to be used for registering\n   * an AngularJS wrapper directive for "downgrading" an Angular\n
component.\n   * @usageNotes\n   * ### Examples\n   * Let's assume that you have an Angular\n
component called `ng2Heroes` that needs\n   * to be made available in AngularJS templates.\n   * @example\n
upgrade/static/ts/full/module.ts region="ng2-heroes"}\n   * We must create an AngularJS\n
[directive](https://docs.angularjs.org/guide/directive)\n   * that will make this Angular component available inside\n
AngularJS templates.\n   * The `downgradeComponent()` function returns a factory function that we\n   * can use\n
to define the AngularJS directive that wraps the "downgraded" component.\n   * @example\n
upgrade/static/ts/full/module.ts region="ng2-heroes-wrapper"}\n   * For more details\n
and examples on downgrading Angular components to AngularJS components please\n   * visit the [Upgrade\n
guide](guide/upgrade#using-angular-components-from-angularjs-code).\n   * @param info contains\n
information about the Component that is being downgraded:\n   * - `component: Type<any>`: The type of\n
the Component that will be downgraded\n   * - `downgradedModule?: string`: The name of the downgraded\n
module (if any) that the component\n   * "belongs to", as returned by a call to `downgradeModule()`. It is the\n
module, whose\n   * corresponding Angular module will be bootstrapped, when the component needs to be\n
instantiated.\n   * <br/>\n   * (This option is only necessary when using `downgradeModule()` to downgrade\n
more than one\n   * Angular module.)\n   * - `propagateDigest?: boolean`: Whether to perform { @link\n
ChangeDetectorRef#detectChanges\n   * change detection } on the component on every\n   *\n
[$digest](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest).\n
If set to `false`,\n   * change detection will still be performed when any of the component's inputs changes.\n
(Default: true)\n   * @returns a factory function that can be used to register the component in an\n

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AngularJS module.\n * \n * @publicApi \n * \n function downgradeComponent(info) {\n var
directiveFactory = function ($compile, $injector, $parse) {\n // When using `downgradeModule()`, we need
to handle certain things specially. For example:\n // - We always need to attach the component view to the
`ApplicationRef` for it to be\n // dirty-checked.\n // - We need to ensure callbacks to Angular APIs
(e.g. change detection) are run inside the\n // Angular zone.\n // NOTE: This is not needed, when
using `UpgradeModule`, because `$digest()` will be run\n // inside the Angular zone (except if explicitly
escaped, in which case we shouldn't\n // force it back in).\n var isNgUpgradeLite =
getUpgradeAppType($injector) === 3 /* Lite */;\n var wrapCallback = !isNgUpgradeLite ? function (cb) {\n
return cb; } : function (cb) {\n return function () {\n return core.NgZone.isInAngularZone() ? cb() : ngZone.run(cb);
};\n }; \n var ngZone;\n // When downgrading multiple modules, special handling is needed wrt injectors.\n
var hasMultipleDowngradedModules = isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);\n
return {\n restrict: 'E',\n terminal: true,\n require: [REQUIRE_INJECTOR,
REQUIRE_NG_MODEL],\n link: function (scope, element, attrs, required) {\n // We might
have to compile the contents asynchronously, because this might have been\n // triggered by
`UpgradeNg1ComponentAdapterBuilder`, before the Angular templates
have\n // been compiled.\n var ngModel = required[1];\n var parentInjector =
required[0];\n var moduleInjector = undefined;\n var ranAsync = false;\n if
(!parentInjector || hasMultipleDowngradedModules) {\n var downgradedModule =
info.downgradedModule || "";\n var lazyModuleRefKey = "\"" + LAZY_MODULE_REF +
downgradedModule;\n var attemptedAction = "instantiating component " +
getTypeName(info.component) + "\";\n validateInjectionKey($injector, downgradedModule,
lazyModuleRefKey, attemptedAction);\n var lazyModuleRef = $injector.get(lazyModuleRefKey);\n
moduleInjector = lazyModuleRef.injector || lazyModuleRef.promise;\n }\n //
Notes:\n // \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 // \n // There are basically three cases:\n // - 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
// - 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 // - If there is a parent component, but it may belong to a different `NgModule`,
then we\n // use the `parentInjector` as `finalParentInjector` and this downgraded component's\n
// declaring `NgModule`'s injector as `finalModuleInjector`.\n // Note 1: If the `NgModule` is
already bootstrapped, we just get its injector (we don't\n // bootstrap again).\n // Note
2: It is possible that (while there are multiple downgraded modules) this\n // downgraded
component and its parent component both belong to the same NgModule.\n // In that case, we
could have used the `parentInjector` as both\n // `finalModuleInjector` and `finalParentInjector`,
but (for simplicity) we are\n // treating this case as if they belong to different `NgModule`s. That
doesn't\n // really affect anything, since `parentInjector` has `moduleInjector` as ancestor\n
// and trying to resolve `ComponentFactoryResolver` from either one will return\n // the
same instance.\n // If there is a parent component, use its injector as parent injector.\n // If
this is a "top-level" Angular component, use the module injector.\n var finalParentInjector =
parentInjector || moduleInjector;\n // If this is a "top-level" Angular component

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or 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
injector.\n var finalModuleInjector = moduleInjector || parentInjector;\n var doDowngrade =
function (injector, moduleInjector) {\n // Retrieve `ComponentFactoryResolver` from the injector tied
to the `NgModule` this\n // component belongs to.\n var componentFactoryResolver =
moduleInjector.get(core.ComponentFactoryResolver);\n var componentFactory =
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 = new
DowngradeComponentAdapter(element, attrs, scope, ngModel, injector, $injector, $compile, $parse,
componentFactory, wrapCallback);\n var projectableNodes = facade.compileContents();\n
facade.createComponent(projectableNodes);\n facade.setupInputs(isNgUpgradeLite,
info.propagateDigest);\n facade.setupOutputs();\n facade.registerCleanup();\n
injectorPromise.resolve(facade.getInjector());\n if (ranAsync) {\n // If this is run
async, it is possible that it is not run inside a\n // digest and initial input values will not be
detected.\n scope.$evalAsync(function () { });\n });\n var
downgradeFn = isNgUpgradeLite ? doDowngrade : function (pInjector, mInjector) {\n if (!ngZone)
{\n ngZone = pInjector.get(core.NgZone);\n }\n
wrapCallback(function () { return doDowngrade(pInjector, mInjector); });\n });\n //
NOTE:\n // Not using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`), because\n
// Closure Compiler (or some related tool) complains:\n // `TypeError:
...$src$downgrade_component_ParentInjectorPromise.all is not a function`\n
SyncPromise.all([finalParentInjector, finalModuleInjector])\n .then(function (_a) {\n
var _b = __read(_a, 2), pInjector = _b[0], mInjector = _b[1];\n return downgradeFn(pInjector,
mInjector);\n });\n ranAsync
= true;\n });\n });\n // bracket-notation because of closure - see #14441\n
directiveFactory['$inject'] = [$COMPILER, $INJECTOR, $PARSE];\n return directiveFactory;\n }\n /**\n
* Synchronous promise-like object to wrap parent injectors,\n * to preserve the synchronous nature of AngularJS's
`$compile`.\n */\n var ParentInjectorPromise = /** @class */ (function (_super) {\n
__extends(ParentInjectorPromise, _super);\n function ParentInjectorPromise(element) {\n var _this =
_super.call(this) || this;\n _this.element = element;\n _this.injectorKey =
controllerKey(INJECTOR_KEY);\n // Store the promise on the element.\n
element.data(_this.injectorKey, _this);\n return _this;\n }\n ParentInjectorPromise.prototype.resolve
= function (injector) {\n // Store the real injector on the element.\n this.element.data(this.injectorKey,
injector);\n // Release the element to prevent memory leaks.\n this.element = null;\n // Resolve
the promise.\n _super.prototype.resolve.call(this, injector);\n });\n return ParentInjectorPromise;\n
}(SyncPromise));\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 * @description\n *\n * A helper function to allow an Angular
service to be accessible from AngularJS.\n *\n * Part of the [upgrade/static](api?query=upgrade%2Fstatic)\n
* library for hybrid upgrade apps that support AOT compilation*\n *\n * This helper function returns a factory
function that provides access to the Angular\n * service identified by the `token` parameter.\n *\n *
@usageNotes\n * ###\n
Examples\n *\n * First ensure that the service to be downgraded is provided in an `NgModule`\n * that will
be part of the upgrade application. For example, let's assume we have\n * defined `HeroesService`\n *\n *
{@example upgrade/static/ts/full/module.ts region=`ng2-heroes-service`}*\n *\n * and that we have included
this in our upgrade app `NgModule`\n *\n * {@example upgrade/static/ts/full/module.ts region=`ng2-

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module"}\n * \n * Now we can register the `downgradeInjectable` factory function for the service\n * on an
AngularJS module.\n * \n * {@example upgrade/static/ts/full/module.ts region=`downgrade-ng2-heroes-
service`} }\n * \n * Inside an AngularJS component's controller we can get hold of the\n * downgraded service
via the name we gave when downgrading.\n * \n * {@example upgrade/static/ts/full/module.ts
region=`example-app`} }\n * \n * <div class=`alert is-important`>\n * \n *
When using `downgradeModule()`, downgraded injectables will not be available until the Angular\n * module
that provides them is instantiated. In order to be safe, you need to ensure that the\n * downgraded injectables are
not used anywhere _outside_ the part of the app where it is\n * guaranteed that their module has been
instantiated.\n * \n * For example, it is _OK_ to use a downgraded service in an upgraded component that is
only used\n * from a downgraded Angular component provided by the same Angular module as the injectable,
but\n * it is _not OK_ to use it in an AngularJS component that may be used independently of Angular or\n *
use it in a downgraded Angular component from a different module.\n * \n * </div>\n * \n * @param token
an `InjectionToken` that identifies a service provided from Angular.\n * @param downgradedModule the name of
the downgraded module (if any) that the injectable\n * "belongs to", as returned
by a call to `downgradeModule()`. It is the module, whose injector will\n * be used for instantiating the
injectable.<br />\n * (This option is only necessary when using `downgradeModule()` to downgrade more than
one Angular\n * module.)\n * \n * @returns a [factory function](https://docs.angularjs.org/guide/di) that can
be\n * used to register the service on an AngularJS module.\n * \n * @publicApi\n * /\n function
downgradeInjectable(token, downgradedModule) {\n if (downgradedModule === void 0) { downgradedModule
= ""; }\n var factory = function ($injector) {\n var injectorKey = "\"" + INJECTOR_KEY +
downgradedModule;\n var injectableName = isFunction(token) ? getTypeName(token) : String(token);\n
var attemptedAction = `instantiating injectable ` + injectableName + ` `;\n
validateInjectionKey($injector, downgradedModule, injectorKey, attemptedAction);\n var injector =
$injector.get(injectorKey);\n return injector.get(token);\n }; \n factory['$inject'] = [$INJECTOR];\n
return factory;\n }\n\n /**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * \n * Use
of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n * /\n // Constants\n var REQUIRE_PREFIX_RE = /^(\\^\\^)?(\\|)?(\\^\\^)?;/\n //
Classes\n var UpgradeHelper = /** @class */ (function () {\n function UpgradeHelper(injector, name,
elementRef, directive) {\n this.injector = injector;\n this.name = name;\n this.$injector =
injector.get($INJECTOR);\n this.$compile = this.$injector.get($COMPILE);\n this.$controller =
this.$injector.get($CONTROLLER);\n this.element = elementRef.nativeElement;\n this.$element =
element(this.element);\n this.directive
= directive || UpgradeHelper.getDirective(this.$injector, name);\n } \n UpgradeHelper.getDirective =
function ($injector, name) {\n var directives = $injector.get(name + 'Directive');\n if (directives.length
> 1) {\n throw new Error(`Only support single directive definition for: ` + name); \n } \n var
directive = directives[0];\n // AngularJS will transform `link: xyz` to `compile: () => xyz`. So we can only tell
there was a\n // user-defined `compile` if there is no `link`. In other cases, we will just ignore `compile`.\n
if (directive.compile && !directive.link)\n notSupported(name, 'compile');\n if
(directive.replace)\n notSupported(name, 'replace');\n if (directive.terminal)\n
notSupported(name, 'terminal');\n return directive;\n }; \n UpgradeHelper.getTemplate = function
($injector, directive,
fetchRemoteTemplate, $element) {\n if (fetchRemoteTemplate === void 0) { fetchRemoteTemplate = false;
}\n if (directive.template !== undefined) {\n return getOrCall(directive.template, $element);\n } \n
else if (directive.templateUrl) {\n var $templateCache_1 =
$injector.get($TEMPLATE_CACHE);\n var url_1 = getOrCall(directive.templateUrl, $element);\n
var template = $templateCache_1.get(url_1);\n if (template !== undefined) {\n return
template;\n } \n else if (!fetchRemoteTemplate) {\n throw new Error('loading directive
templates asynchronously is not supported');\n } \n return new Promise(function (resolve, reject)

```

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{\n      var $httpBackend = $injector.get($HTTP_BACKEND);\n      $httpBackend('GET', url_1,\nnull, function (status, response) {\n\n      if (status === 200) {\n          resolve($templateCache_1.put(url_1, response));\n      }\n      else {\n          reject("GET component template from \"" + url_1 + "\" returned \"" +\nstatus + \": \" + response + "\"");\n      }\n      });\n      });\n      });\n      });\n      else {\n          throw new Error("Directive \"" + directive.name + "\" is not a component, it is missing template.");\n      }\n      });\n      UpgradeHelper.prototype.buildController = function (controllerType, $scope) {\n      // TODO:\nDocument that we do not pre-assign bindings on the controller instance.\n      // Quoted properties below so that\nthis code can be optimized with Closure Compiler.\n      var locals = { '$scope': $scope, '$element': this.$element\n};\n      var controller = this.$controller(controllerType, locals,\nnull, this.directive.controllerAs);\n      this.$element.data(controllerKey(this.directive.name), controller);\n      return controller;\n      });\n      UpgradeHelper.prototype.compileTemplate = function (template) {\n      if\n(template === undefined) {\n          template =\n          UpgradeHelper.getTemplate(this.$injector,\nthis.directive, false, this.$element);\n      }\n      return this.compileHtml(template);\n      });\n      UpgradeHelper.prototype.onDestroy = function ($scope, controllerInstance) {\n      if (controllerInstance &&\nisFunction(controllerInstance.$onDestroy)) {\n          controllerInstance.$onDestroy();\n      }\n      $scope.$destroy();\n      // Clean the jQuery/jqLite data on the component+child elements.\n      // Equivalent\nto how jQuery/jqLite invoke `cleanData` on an Element (this.element)\n      //\n      https://github.com/jquery/jquery/blob/e743cbd28553267f955f71ea7248377915613fd9/src/manipulation.js#L223\n      //\n      https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2aab70d86d4d688c82/src/jqLite.js#L306-\nL312\n      // `cleanData` will invoke the AngularJS `destroy` DOM event\n      //\n      https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2aab70d86d4d688c82/src/Angular.js#L1911-\nL1924\n      element.cleanData([this.element]);\n      element.cleanData(this.element.querySelectorAll("*"));\n      });\n      UpgradeHelper.prototype.prepareTransclusion = function () {\n      var _this = this;\n      var\ntransclude = this.directive.transclude;\n      var contentChildNodes = this.extractChildNodes();\n      var\nattachChildrenFn = function (scope, cloneAttachFn) {\n      // Since AngularJS v1.5.8, `cloneAttachFn` will\ntry to destroy the transclusion scope if\n      // `template` is empty. Since the transcluded content comes from\nAngular, not AngularJS,\n      // there will be no transclusion scope here.\n      // Provide a dummy `scope.$destroy()` method to\nprevent `cloneAttachFn` from throwing.\n      scope = scope || { $destroy: function () { return undefined; } };\n      return cloneAttachFn($template, scope);\n      });\n      var $template = contentChildNodes;\n      if (transclude) {\n          var slots_1 = Object.create(null);\n          if (typeof transclude === 'object') {\n              $template = [];\n              var slotMap_1 = Object.create(null);\n              var filledSlots_1 =\n              Object.create(null);\n              // Parse the element selectors.\n              Object.keys(transclude).forEach(function (slotName) {\n                  var selector = transclude[slotName];\n                  var optional = selector.charAt(0) === '?';\n                  selector = optional ? selector.substring(1) :\n                  selector;\n                  slotMap_1[selector] = slotName;\n                  slots_1[slotName] = null; // `null`: Defined but not\nyet filled.\n                  filledSlots_1[slotName] = optional; // Consider optional slots as filled.\n              });\n              // Add the matching elements into their slot.\n              contentChildNodes.forEach(function (node)\n              {\n                  var slotName = slotMap_1[directiveNormalize(node.nodeName.toLowerCase())];\n                  if (slotName) {\n                      filledSlots_1[slotName] = true;\n                      slots_1[slotName] =\n                      slots_1[slotName] || [];\n                      slots_1[slotName].push(node);\n                  }\n                  else {\n                      $template.push(node);\n                  }\n              });\n              // Check for required slots\nthat were not filled.\n              Object.keys(filledSlots_1).forEach(function\n              (slotName) {\n                  if (!filledSlots_1[slotName]) {\n                      throw new Error("Required\ntransclusion slot \"" + slotName + "\" on directive: \"" + _this.name);\n                  }\n              });\n          }\n      }\n      }

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Object.keys(slots_1).filter(function (slotName) { return slots_1[slotName]; }).forEach(function (slotName) {\n
    var nodes = slots_1[slotName];\n
    slots_1[slotName] = function (scope, cloneAttach) {\n
        return cloneAttach(nodes, scope);\n
    };\n
});\n
// Attach\n
`$$slots` to default slot transclude fn.\n
attachChildrenFn.$$slots = slots_1;\n
// AngularJS v1.6+\n
ignores empty or whitespace-only transcluded text nodes. But Angular\n
// removes all text content after\n
the first interpolation and updates\n
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\n
instead.\n
// To avoid this issue, we add a\n
// [zero-width non-joiner\n
character](https://en.wikipedia.org/wiki/Zero-width_non-joiner)\n
// to empty text nodes (which can only\n
be a result of Angular removing their initial content).\n
// NOTE: Transcluded text content that starts with\n
whitespace followed by an interpolation\n
// will still fail to be detected by AngularJS v1.6+\n
$template.forEach(function (node) {\n
    if (node.nodeType === Node.TEXT_NODE &&\n
!node.nodeValue) {\n
        node.nodeValue = "\\u200C";\n
    };\n
});\n
return attachChildrenFn;\n
});\n
UpgradeHelper.prototype.resolveAndBindRequiredControllers = function (controllerInstance) {\n
    var directiveRequire = this.getDirectiveRequire();\n
    var requiredControllers =\n
this.resolveRequire(directiveRequire);\n
    if (controllerInstance && this.directive.bindToController &&\n
isMap(directiveRequire)) {\n
        var requiredControllersMap_1 = requiredControllers;\n
Object.keys(requiredControllersMap_1).forEach(function (key) {\n
        controllerInstance[key] =\n
requiredControllersMap_1[key];\n
    });\n
    return requiredControllers;\n
});\n
UpgradeHelper.prototype.compileHtml = function (html) {\n
    this.element.innerHTML = html;\n
    return\n
this.$compile(this.element.childNodes);\n
};\n
UpgradeHelper.prototype.extractChildNodes = function ()\n
{\n
    var childNodes = [];\n
    var childNode;\n
    while\n
(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 ||\n
(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 =\n
value.match(REQUIRE_PREFIX_RE);\n
        var name = value.substring(match[0].length);\n
        if\n
(!name) {\n
            require[key] = match[0] + key;\n
        };\n
    });\n
    return\n
require;\n
};\n
UpgradeHelper.prototype.resolveRequire = function (require, controllerInstance) {\n
    var _this = this;\n
    if (!require) {\n
        return null;\n
    } else if (Array.isArray(require)) {\n
        return require.map(function (req) {\n
return _this.resolveRequire(req); });\n
    } else if (typeof require === 'object') {\n
        var value_1\n
= {};\n
        Object.keys(require).forEach(function (key) {\n
return value_1[key] =\n
_this.resolveRequire(require[key]); });\n
        return value_1;\n
    } else if (typeof require ===\n
'string') {\n
        var match = require.match(REQUIRE_PREFIX_RE);\n
        var inheritType = match[1] ||\n
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\n
= 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
{\n
            throw new Error("Unable to find required \"" + require + "\" in upgraded directive \"" + this.name +\n
"\".");\n
        };\n
        return value;\n
    } else {\n
        throw new Error("Unrecognized\n
'require' syntax on upgraded directive \"" + this.name + "\": \"" + require);\n
    };\n
    return\n
UpgradeHelper;\n
}());\n
function getOrCall(property) {\n
    var args = [];\n
    for (var _i = 1; _i <\n
arguments.length; _i++) {\n
        args[_i - 1] = arguments[_i];\n
    }\n
    return isFunction(property) ?\n
property.apply(void 0, __spread(args)) : property;\n
} // NOTE: Only works for `typeof T !== 'object`.

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function isMap(value) {\n    return value && !Array.isArray(value) && typeof value === 'object';\n }
function notSupported(name,
    feature) {\n    throw new Error("Upgraded directive \"" + name + "\" contains unsupported feature: \"" + feature +
    "\".");\n }\n\n /**\n  * @license\n  * Copyright Google Inc. All Rights Reserved.\n  *\n  * Use of this
    source code is governed by an MIT-style license that can be\n  * found in the LICENSE file at
    https://angular.io/license\n  *\n  var CAMEL_CASE = /[A-Z]/g;\n  var INITIAL_VALUE$1 = {\n
    __UNINITIALIZED__: true\n  };\n  var NOT_SUPPORTED = 'NOT_SUPPORTED';\n  var
    UpgradeNg1ComponentAdapterBuilder = /** @class */ (function () {\n    function
    UpgradeNg1ComponentAdapterBuilder(name) {\n        this.name = name;\n        this.inputs = [];\n
    this.inputsRename = [];\n        this.outputs = [];\n        this.outputsRename = [];\n        this.propertyOutputs =
    [];\n        this.checkProperties = [];\n        this.propertyMap = {};\n        this.directive = null;\n        var
    selector
    = name.replace(CAMEL_CASE, function (all, next) { return '-' + next.toLowerCase(); });\n        var self = this;\n
    // Note: There is a bug in TS 2.4 that prevents us from\n        // inlining this into @Directive\n        //
    TODO(tbosch): find or file a bug against TypeScript for this.\n        var directive = { selector: selector, inputs:
    this.inputsRename, outputs: this.outputsRename };
    var MyClass = /** @class */ (function (_super) {\n
    __extends(MyClass, _super);\n        function MyClass(scope, injector, elementRef) {\n            var _this
    = this;\n            _this = _super.call(this, new UpgradeHelper(injector, name, elementRef, self.directive ||
    undefined), scope, self.template, self.inputs, self.outputs, self.propertyOutputs, self.checkProperties,
    self.propertyMap) || this;\n            return _this;\n        }\n        MyClass = __decorate([\n
    core.Directive(__assign({
    jit: true }, directive)),\n        __param(0, core.Inject($SCOPE)),\n
    __metadata({"design:paramtypes": [Object, core.Injector, core.ElementRef]})\n        ], MyClass);\n
    return MyClass;\n    })(UpgradeNg1ComponentAdapter);\n        this.type = MyClass;\n    }\n
    UpgradeNg1ComponentAdapterBuilder.prototype.extractBindings = function () {\n        var _this = this;\n
    var btcIsObject = typeof this.directive.bindToController === 'object';\n        if (btcIsObject &&
    Object.keys(this.directive.scope).length) {\n            throw new Error("Binding definitions on scope and controller
    at the same time are not supported.");\n        }\n        var context = (btcIsObject) ?
    this.directive.bindToController : this.directive.scope;\n        if (typeof context === 'object') {\n
    Object.keys(context).forEach(function (propName) {\n            var definition
    = context[propName];\n            var bindingType = definition.charAt(0);\n            var bindingOptions =
    definition.charAt(1);\n            var attrName = definition.substring(bindingOptions === '?' ? 2 : 1) ||
    propName;\n            // QUESTION: What about `=*`? Ignore? Throw? Support?\n            var inputName =
    "input_" + attrName;\n            var inputNameRename = inputName + ":" + attrName;\n            var
    outputName = "output_" + attrName;\n            var outputNameRename = outputName + ":" + attrName;\n
            var outputNameRenameChange = outputNameRename + "Change";\n            switch (bindingType)
            {\n                case '@':\n                    case '<':\n                        _this.inputs.push(inputName);\n
                    _this.inputsRename.push(inputNameRename);\n                    break;\n                case '=':\n
                    _this.inputs.push(inputName);\n                    _this.inputsRename.push(inputNameRename);\n
                    _this.outputs.push(outputName);\n                    _this.outputsRename.push(outputNameRenameChange);\n
                    _this.propertyMap[outputName] =
                    propName;\n                    _this.checkProperties.push(propName);\n                case '&':\n
                    _this.outputs.push(outputName);\n                    break;\n                case '&':\n
                    _this.outputs.push(outputName);\n                    _this.outputsRename.push(outputNameRename);\n
                    _this.propertyMap[outputName] = propName;\n                    break;\n                default:\n
                    break;\n            }\n        }\n    }\n
    var json

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= JSON.stringify(context);\n                throw new Error("\Unexpected mapping \"" + bindingType + "\" in \""
+ json + "\" in \"" + _this.name + "\" directive.\");\n                }\n                });\n                }\n                });\n                /**\n
Upgrade ng1 components into Angular.\n                */\n                UpgradeNg1ComponentAdapterBuilder.resolve = function
(exportsComponents, $injector) {\n                var promises = Object.keys(exportsComponents).map(function (name)
{\n                var exportedComponent = exportsComponents[name];\n                exportedComponent.directive =
UpgradeHelper.getDirective($injector, name);\n                exportedComponent.extractBindings();\n                return
Promise\n                .resolve(UpgradeHelper.getTemplate($injector, exportedComponent.directive, true))\n
                .then(function (template) { return exportedComponent.template = template; });\n                });\n                return
Promise.all(promises);\n
                });\n                return UpgradeNg1ComponentAdapterBuilder;\n                }());\n                var UpgradeNg1ComponentAdapter = /**
@class */ (function () {\n                function UpgradeNg1ComponentAdapter(helper, scope, template, inputs, outputs,
propOuts, checkProperties, propertyMap) {\n                this.helper = helper;\n                this.template = template;\n
this.inputs = inputs;\n                this.outputs = outputs;\n                this.propOuts = propOuts;\n                this.checkProperties
= checkProperties;\n                this.propertyMap = propertyMap;\n                this.controllerInstance = null;\n
this.destinationObj = null;\n                this.checkLastValues = [];\n                this.$element = null;\n                this.directive =
helper.directive;\n                this.element = helper.element;\n                this.$element = helper.$element;\n
this.componentScope = scope.$new(!this.directive.scope);\n                var controllerType = this.directive.controller;\n
\n                if (this.directive.bindToController && controllerType) {\n                this.controllerInstance =
this.helper.buildController(controllerType, this.componentScope);\n                this.destinationObj =
this.controllerInstance;\n                }\n                else {\n                this.destinationObj = this.componentScope;\n
}\n                for (var i = 0; i < inputs.length; i++) {\n                this[inputs[i]] = null;\n                }\n                for (var j = 0; j
< outputs.length; j++) {\n                var emitter = this[outputs[j]] = new core.EventEmitter();\n                if
(this.propOuts.indexOf(outputs[j]) === -1) {\n                this.setComponentProperty(outputs[j], (function (emitter)
{ return function (value) { return emitter.emit(value); }; })(emitter));\n                }\n                }\n                for (var k = 0;
k < propOuts.length; k++) {\n                this.checkLastValues.push(INITIAL_VALUE$1);\n                }\n                }\n
UpgradeNg1ComponentAdapter.prototype.ngOnInit
= function () {\n                // Collect contents, insert and compile template\n                var attachChildNodes =
this.helper.prepareTransclusion();\n                var linkFn = this.helper.compileTemplate(this.template);\n                //
Instantiate controller (if not already done so)\n                var controllerType = this.directive.controller;\n                var
bindToController = this.directive.bindToController;\n                if (controllerType && !bindToController) {\n                this.controllerInstance = this.helper.buildController(controllerType, this.componentScope);\n                }\n                //
Require other controllers\n                var requiredControllers =
this.helper.resolveAndBindRequiredControllers(this.controllerInstance);\n                // Hook: $onInit\n                if
(this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {\n                this.controllerInstance.$onInit();\n                }\n                // Linking\n
                var link = this.directive.link;\n                var preLink = typeof link == 'object' && link.pre;\n                var
postLink = typeof link == 'object' ? link.post : link;\n                var attrs = NOT_SUPPORTED;\n                var
transcludeFn = NOT_SUPPORTED;\n                if (preLink) {\n                preLink(this.componentScope,
this.$element, attrs, requiredControllers, transcludeFn);\n                }\n                linkFn(this.componentScope, null, {
parentBoundTranscludeFn: attachChildNodes });\n                if (postLink) {\n                postLink(this.componentScope,
this.$element, attrs, requiredControllers, transcludeFn);\n                }\n                // Hook: $postLink\n                if
(this.controllerInstance && isFunction(this.controllerInstance.$postLink)) {\n                this.controllerInstance.$postLink();\n                }\n                }\n
UpgradeNg1ComponentAdapter.prototype.ngOnChanges = function (changes) {\n                var _this = this;\n                var ng1Changes
= {};\n                Object.keys(changes).forEach(function (name) {\n                var change = changes[name];\n                _this.setComponentProperty(name, change.currentValue);\n                ng1Changes[_this.propertyMap[name]] =

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change;\n      });\n      if (isFunction(this.destinationObj.$onChanges)) {\n
this.destinationObj.$onChanges(ng1Changes);\n      }\n    });\n
UpgradeNg1ComponentAdapter.prototype.ngDoCheck = function () {\n      var _this = this;\n      var\n
destinationObj = this.destinationObj;\n      var lastValues = this.checkLastValues;\n      var checkProperties =\n
this.checkProperties;\n      var propOuts = this.propOuts;\n      checkProperties.forEach(function (propName,\n
i) {\n      var value = destinationObj[propName];\n      var last = lastValues[i];\n      if\n
(!strictEquals(last, value)) {\n      var eventEmitter = _this[propOuts[i]];\n
eventEmitter.emit(lastValues[i] = value);\n      }\n      });\n      if (this.controllerInstance\n
&& isFunction(this.controllerInstance.$doCheck)) {\n      this.controllerInstance.$doCheck();\n      }\n
});\n
UpgradeNg1ComponentAdapter.prototype.ngOnDestroy = function () {\n
this.helper.onDestroy(this.componentScope, this.controllerInstance); }\n
UpgradeNg1ComponentAdapter.prototype.setComponentProperty = function (name, value) {\n
this.destinationObj[this.propertyMap[name]] = value;\n      });\n      return UpgradeNg1ComponentAdapter;\n
}());\n\n /**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source\n
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 upgradeCount = 0;\n /**\n * Use `UpgradeAdapter` to allow AngularJS and Angular to coexist in a\n
single\n
application.\n * The `UpgradeAdapter` allows:\n * 1. creation of Angular component from AngularJS\n
component directive\n * (See [UpgradeAdapter#upgradeNg1Component()])\n * 2. creation of AngularJS\n
directive from Angular component.\n * (See [UpgradeAdapter#downgradeNg2Component()])\n * 3.\n
Bootstrapping of a hybrid Angular application which contains both of the frameworks\n * coexisting in a single\n
application.\n * @usageNotes\n * ### Mental Model\n * When reasoning about how a hybrid\n
application works it is useful to have a mental model which\n * describes what is happening and explains what is\n
happening at the lowest level.\n * 1. There are two independent frameworks running in a single application,\n
each framework treats\n * the other as a black box.\n * 2. Each DOM element on the page is owned exactly\n
by one framework. Whichever framework\n * instantiated the element is the owner.\n
Each framework only updates/interacts with its own\n * DOM elements and ignores others.\n * 3. AngularJS\n
directives always execute inside AngularJS framework codebase regardless of\n * where they are instantiated.\n
* 4. Angular components always execute inside Angular framework codebase regardless of\n * where they are\n
instantiated.\n * 5. An AngularJS component can be upgraded to an Angular component. This creates an\n *  

Angular directive, which bootstraps the AngularJS component directive in that location.\n * 6. An Angular\n
component can be downgraded to an AngularJS component directive. This creates\n * an AngularJS directive,\n
which bootstraps the Angular component in that location.\n * 7. Whenever an adapter component is instantiated\n
the host element is owned by the framework\n * doing the instantiation. The other framework then instantiates\n
and owns the view for that\n * component. This implies that component\n
bindings will always follow the semantics of the\n * instantiation framework. The syntax is always that of\n
Angular syntax.\n * 8. AngularJS is always bootstrapped first and owns the bottom most view.\n * 9. The new\n
application is running in Angular zone, and therefore it no longer needs calls to\n * `$apply()`.\n * ###  

Example\n *```\n * const adapter = new UpgradeAdapter(forwardRef(() => MyNg2Module),\n
myCompilerOptions);\n * const module = angular.module('myExample', []);\n * module.directive('ng2Comp',\n
adapter.downgradeNg2Component(Ng2Component));\n * module.directive('ng1Hello', function() {\n *  

return {\n * scope: { title: '=' },\n * template: 'ng1[Hello { {title} } ]!(<span ng-transclude></span>)\n
*  

};\n * });\n * @Component({\n * selector: 'ng2-comp',\n * inputs: ['name'],\n *  

template: 'ng2[<ng1-hello [title]="name">transclude</ng1-hello>](<ng-content></ng-content>)',\n
* directives:\n * })\n * class Ng2Component {\n * }\n * @NgModule({\n * declarations:\n
[Ng2Component, adapter.upgradeNg1Component('ng1Hello')],\n * imports: [BrowserModule]\n * })\n *  

class MyNg2Module {\n * }\n * document.body.innerHTML = '<ng2-comp\n
name="World">project</ng2-comp>';\n * adapter.bootstrap(document.body,
```

```

['myExample'].ready(function() {\n * expect(document.body.textContent).toEqual(\n * \n"ng2[ng1[Hello
World!](transclude)](project)");\n * });\n * \n * \n * \n * @deprecated Deprecated since v5. Use
`upgrade/static` instead, which also supports\n * [Ahead-of-Time compilation](guide/aot-compiler).\n *
@publicApi\n * \n var UpgradeAdapter = /** @class */ (function () {\n function
UpgradeAdapter(ng2AppModule, compilerOptions) {\n this.ng2AppModule = ng2AppModule;\n
this.compilerOptions
= compilerOptions;\n this.idPrefix = `NG2_UPGRADE_${` + upgradeCount++ + `}`;\n
this.downgradedComponents = [];\n /**\n * An internal map of ng1 components which need to up
graded to ng2.\n * \n * We can't upgrade until injector is instantiated and we can retrieve the
component metadata.\n * For this reason we keep a list of components to upgrade until ng1 injector is
bootstrapped.\n * \n * @internal\n * \n this.ng1ComponentsToBeUpgraded = {};\n
this.upgradedProviders = [];\n this.moduleRef = null;\n if (!ng2AppModule) {\n throw new
Error('UpgradeAdapter cannot be instantiated without an NgModule of the Angular app.);\n } \n } \n
/**\n * Allows Angular Component to be used from AngularJS.\n * \n * Use
`downgradeNg2Component` to create an AngularJS Directive Definition
Factory from\n * Angular Component. The adapter will bootstrap Angular component from within the\n *
AngularJS template.\n * \n * @usageNotes\n * ### Mental Model\n * \n * 1. The component
is instantiated by being listed in AngularJS template. This means that the\n * host element is controlled by
AngularJS, but the component's view will be controlled by\n * Angular.\n * 2. Even though the
component is instantiated in AngularJS, it will be using Angular\n * syntax. This has to be done, this way
because we must follow Angular components do not\n * declare how the attributes should be interpreted.\n
* 3. `ng-model` is controlled by AngularJS and communicates with the downgraded Angular component\n *
by way of the `ControlValueAccessor` interface from @angular/forms. Only components that\n * implement
this interface are eligible.\n * \n
* ### Supported Features\n * \n * - Bindings:\n * - Attribute: `\n *
- Interpolation: `

```



```

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      * @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      * @NgModule({\n      *   declarations: [Ng2,
adapter.upgradeNg1Component('ng1')],\n
      *   imports: [BrowserModule]\n      * })\n      * class MyNg2Module {\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      *   '\n      *     ng2[ng1[Hello World!](transclude)](project)'\n      *
});\n      * ``\n      * \n      * UpgradeAdapter.prototype.bootstrap = function (element$1, modules, config) {\n
      *   var _this = this;\n      *   this.declareNg1Module(modules);\n      *   var upgrade = new UpgradeAdapterRef();\n
      *   // Make sure resumeBootstrap() only exists if the current bootstrap is deferred\n      *   var windowAngular =
window /** TODO #???? */['angular'];\n      *   windowAngular.resumeBootstrap = undefined;\n
      *   this.ngZone.run(function () { bootstrap(element$1, [_this.ng1Module.name], config); });\n      *   var
ng1BootstrapPromise = new
      *   Promise(function (resolve) {\n      *     if (windowAngular.resumeBootstrap) {\n      *       var
originalResumeBootstrap_1 = windowAngular.resumeBootstrap;\n      *       windowAngular.resumeBootstrap =
function () {\n      *         windowAngular.resumeBootstrap = originalResumeBootstrap_1;\n      *         var r
= windowAngular.resumeBootstrap.apply(this, arguments);\n      *         resolve();\n      *         return r;\n
      *       };\n      *     } else {\n      *       resolve();\n      *     };\n      *   });\n
      *   Promise.all([this.ng2BootstrapDeferred.promise, ng1BootstrapPromise]).then(function (_a) {\n      *     var _b =
__read(_a, 1), ng1Injector = _b[0];\n      *     element(element$1).data(controllerKey(INJECTOR_KEY),
_this.moduleRef.injector);\n      *     _this.moduleRef.injector.get(core.NgZone).run(function () {\n
      *       upgrade._bootstrapDone(_this.moduleRef, ng1Injector);\n
      *     });\n      *     }, onError);\n      *     return upgrade;\n      *   });\n      *   /**\n      *     * Allows AngularJS service to be
accessible from Angular.\n      *     *\n      *     @usageNotes\n      *     ### Example\n      *     *\n      *     ``\n      *     * class
Login { ... }\n      *     * class Server { ... }\n      *     *\n      *     @Injectable()\n      *     * class Example {\n      *
      *       constructor(@Inject('server') server, login: Login) {\n      *         ...\n      *       }\n      *     }\n      *     *\n      *     const
module = angular.module('myExample', []);\n      *     * module.service('server', Server);\n      *
      *     module.service('login', Login);\n      *     *\n      *     const adapter = new UpgradeAdapter(MyNg2Module);\n      *
      *     adapter.upgradeNg1Provider('server');\n      *     * adapter.upgradeNg1Provider('login', {asToken: Login});\n      *
      *     *\n      *     * adapter.bootstrap(document.body, ['myExample']).ready((ref) => {\n      *     *   const example: Example =
ref.ng2Injector.get(Example);\n      *
      *     * });\n      *     *\n      *     * ``\n      *     *\n      *     \n      *     UpgradeAdapter.prototype.upgradeNg1Provider = function (name,
options) {\n      *     var token = options && options.asToken || name;\n      *     this.upgradedProviders.push({\n
      *       provide: token,\n      *       useFactory: function ($injector) { return $injector.get(name); },\n      *       deps:
[$INJECTOR]\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    UpgradeAdapter.prototype.downgradeNg2Provider = function
(token) { return downgradeInjectable(token); };\n    /**\n    * Declare the AngularJS upgrade module for this
adapter without bootstrapping the whole\n    * hybrid application.\n    *\n    * This method is automatically
called by `bootstrap()` and `registerForNg1Tests()`.\n    *\n    * @param modules The AngularJS modules that
this upgrade module should depend upon.\n    * @returns The AngularJS upgrade module that is declared by this
method\n    *\n    * @usageNotes\n    * ### Example\n    *\n    * ```\n    * const upgradeAdapter =
new UpgradeAdapter(MyNg2Module);\n    * upgradeAdapter.declareNg1Module(['heroApp']);\n    * ```\n    */\n    UpgradeAdapter.prototype.declareNg1Module = function (modules) {\n        var _this = this;\n        if
(modules
=== void 0) { modules = []; }\n        var delayApplyExps = [];\n        var original$applyFn;\n        var
rootScopePrototype;\n        var rootScope;\n        var upgradeAdapter = this;\n        var ng1Module =
this.ng1Module = module_(this.idPrefix, modules);\n        var platformRef =
platformBrowserDynamic.platformBrowserDynamic();\n        this.ngZone = new core.NgZone({
enableLongStackTrace: Zone.hasOwnProperty('longStackTraceZoneSpec') });\n        this.ng2BootstrapDeferred =
new Deferred();\n        ng1Module.constant(UPGRADE_APP_TYPE_KEY, 1 /* Dynamic */)\n        .factory(INJECTOR_KEY, function () { return _this.moduleRef.injector.get(core.Injector); })\n        .factory(LAZY_MODULE_REF, [INJECTOR_KEY, function (injector) { return ({ injector: injector }); }])\n        .constant(NG_ZONE_KEY, this.ngZone)\n        .factory(COMPILE_KEY, function () { return
_this.moduleRef.injector.get(core.Compiler);
})\n        .config([\n            '$provide', '$injector',\n            function (provide, ng1Injector) {\n
provide.decorator($ROOT_SCOPE, [\n                '$delegate',\n                function (rootScopeDelegate) {\n
                    // 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 $apply.\n                    rootScopePrototype =
rootScopeDelegate.constructor.prototype;\n                    if (rootScopePrototype.hasOwnProperty('$apply')) {\n
                        original$applyFn = rootScopePrototype.$apply;\n                        rootScopePrototype.$apply =
function (exp) { return delayApplyExps.push(exp); };\n                        else {\n
                            throw new Error('Failed to find `'$apply`' on `'$rootScope`!');\n
                        }\n                        return rootScope = rootScopeDelegate;\n                    }\n                }
            ]);\n            if (ng1Injector.has($$TESTABILITY)) {\n                provide.decorator($$TESTABILITY, [\n
                    '$delegate',\n                    function (testabilityDelegate) {\n                        var originalWhenStable
= testabilityDelegate.whenStable;\n                        // Cannot use arrow function below because we need the
context\n                        var newWhenStable = function (callback) {\n
originalWhenStable.call(this, function () {\n                            var ng2Testability =
upgradeAdapter.moduleRef.injector.get(core.Testability);\n                            if (ng2Testability.isStable()) {\n
                                callback.apply(this, arguments);\n
                            }\n                            else {\n
ng2Testability.whenStable(newWhenStable.bind(this, callback));\n
                            }\n
                        });\n                    }\n                };\n                testabilityDelegate.whenStable = newWhenStable;\n
            }\n            return testabilityDelegate;\n        }]);\n        ng1Module.run([\n            '$injector', '$rootScope',\n            function (ng1Injector, rootScope) {\n
UpgradeNg1ComponentAdapterBuilder.resolve(_this.ng1ComponentsToBeUpgraded, ng1Injector)\n
.then(function () {\n                // Note: There is a bug in TS 2.4 that prevents us from\n                // inlining
this into @NgModule\n                // TODO(tbosch): find or file a bug against TypeScript for this.\n                var ngModule = {\n
                    providers: [\n                        { provide: $INJECTOR, useFactory: function () { return ng1Injector; }
},\n                        { provide: $COMPILE, useFactory: function () { return ng1Injector.get($COMPILE); } }],\n
                    _this.upgradedProviders\n                ],\n                imports:
[core.resolveForwardRef(_this.ng2AppModule)],\n                entryComponents:

```

```

_this.downgradedComponents\n                });\n                // At this point we have ng1 injector and we have
prepared\n                // ng1 components to be upgraded, we now can bootstrap ng2.\n                var
DynamicNgUpgradeModule = /** @class */ (function () {\n                function
DynamicNgUpgradeModule()\n                {\n                DynamicNgUpgradeModule.prototype.ngDoBootstrap = function () { });\n
DynamicNgUpgradeModule = __decorate([\n                core.NgModule(__assign({ jit: true },
ngModule)),\n                __metadata("design:paramtypes", [])\n                ],
DynamicNgUpgradeModule);\n                return DynamicNgUpgradeModule;\n                }());\n
platformRef\n                .bootstrapModule(DynamicNgUpgradeModule, [_this.compilerOptions, {
ngZone: _this.ngZone }])\n                .then(function (ref) {\n                _this.moduleRef = ref;\n
                _this.ngZone.run(function () {\n                if (rootScopePrototype) {\n
rootScopePrototype.$apply = original$applyFn; // restore original $apply\n
                while (delayApplyExps.length) {\n                rootScope.$apply(delayApplyExps.shift());\n
                }\n                rootScopePrototype = null;\n                }\n                });\n
                })\n                .then(function () { return _this.ng2BootstrapDeferred.resolve(ng1Injector); },
onError)\n                .then(function () {\n                var subscription =
_this.ngZone.onMicrotaskEmpty.subscribe({\n                next: function () {\n                if
(rootScope.$$phase) {\n                if (core.isDevMode()) {\n
console.warn('A digest was triggered while one was already in progress. This may mean that something is triggering
digests outside the Angular zone.);\n                }\n
                return rootScope.$evalAsync(function () { });\n                }\n
                });\n
                return rootScope.$digest();\n                });\n
                });\n
                rootScope.$on('$destroy', function () { subscription.unsubscribe(); });\n                });\n
                .catch(function (e) { return _this.ng2BootstrapDeferred.reject(e); });\n                });\n                return
ng1Module;\n                });\n                return UpgradeAdapter;\n                }());\n                /**\n                * Synchronous promise-like object to wrap
parent injectors,\n                * to preserve the synchronous nature of AngularJS's $compile.\n                */\n                var
ParentInjectorPromise$1 = /** @class */ (function () {\n                function ParentInjectorPromise(element) {\n
this.element = element;\n                this.callbacks = [];\n                // store the promise on the
element\n                element.data(controllerKey(INJECTOR_KEY), this);\n                }\n
ParentInjectorPromise.prototype.then = function (callback) {\n                if (this.injector) {\n
callback(this.injector);\n                }\n                else {\n                this.callbacks.push(callback);\n                }\n                });\n
ParentInjectorPromise.prototype.resolve = function (injector) {\n                this.injector = injector;\n                // reset the
element data to point to the real injector\n                this.element.data(controllerKey(INJECTOR_KEY), injector);\n
                // clean out the element to prevent memory leaks\n                this.element = null;\n                // run all the queued
callbacks\n                this.callbacks.forEach(function (callback) { return callback(injector); });\n
                this.callbacks.length = 0;\n                });\n                return ParentInjectorPromise;\n                }());\n                /**\n                * Use
`UpgradeAdapterRef` to control a hybrid AngularJS / Angular
application.\n                *\n                * @deprecated Deprecated since v5. Use `upgrade/static` instead, which also supports\n                *
[Ahead-of-Time compilation](guide/aot-compiler).\n                *\n                * @publicApi\n                */\n                var UpgradeAdapterRef = /**
@class */ (function () {\n                function UpgradeAdapterRef() {\n                /* @internal */\n                this._readyFn =
null;\n                this.ng1RootScope = null;\n                this.ng1Injector = null;\n                this.ng2ModuleRef = null;\n
                this.ng2Injector = null;\n                }\n                /* @internal */\n                UpgradeAdapterRef.prototype._bootstrapDone =
function (ngModuleRef, ng1Injector) {\n                this.ng2ModuleRef = ngModuleRef;\n                this.ng2Injector =
ngModuleRef.injector;\n                this.ng1Injector = ng1Injector;\n                this.ng1RootScope =
ng1Injector.get($ROOT_SCOPE);\n                this._readyFn && this._readyFn(this);\n                });\n                /**\n                *
Register a callback function which is notified upon successful
hybrid AngularJS / Angular\n                *\n                * application has been bootstrapped.\n                *\n                * The `ready` callback
function is invoked inside the Angular zone, therefore it does not\n                *\n                * require a call to `$apply()`.\n                */\n

```

```

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;
}());
    /**
     * @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
     * // This file only re-exports content of the `src` folder. Keep it that way.
    /**
     * @license
     * Copyright Google Inc. All Rights Reserved.
     * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
     * // Generated bundle index. Do not edit.
     */
    exports.UpgradeAdapter = UpgradeAdapter;
    exports.UpgradeAdapterRef = UpgradeAdapterRef;
    exports.VERSION = VERSION;
    Object.defineProperty(exports, '__esModule', { value: true });
    //# sourceMappingURL=upgrade.umd.js.map

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1047774535_1591199783.98/0/angular-upgrade-9-0-7-src-
zip/bundles/upgrade.umd.min.js.map

```

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

```

{"version":3,"file":"upgrade-
static.umd.js","sources":["../../../../packages/upgrade/src/common/src/angular1.ts","../../../../external/npm/node_modules/tslib/tslib.es6.js","../../../../packages/upgrade/src/common/src/constants.ts","../../../../packages/
upgrade/src/common/src/component_info.ts","../../../../packages/upgrade/src/common/src/util.ts","../../../../packages/upgrade/src/common/src/downgrade_component_adapter.ts","../../../../packages/upgrade/src/common
n/src/promise_util.ts","../../../../packages/upgrade/src/common/src/downgrade_component.ts","../../../../packages/upgrade/src/common/src/downgrade_injectable.ts","../../../../packages/upgrade/src/common/src/version.
ts","../../../../packages/upgrade/static/src/angular1_providers.ts","../../../../packages/upgrade/static/src/util.ts","../../../../packages/upgrade/static/src/downgrade_module.ts","../../../../packages/upgrade/src/common/src/up
grade_helper.ts","../../../../packages/upgrade/static/src/upgrade_component.ts","../../../../packages/upgrade/static/src/upgrade_module.ts","../../../../packages/upgrade/static/public_api.ts","../../../../packages/upgrade/static/i
ndex.ts","../../../../packages/upgrade/static/static.ts"],"sourcesContent":["/**
     * @license
     * Copyright Google Inc. All Rights Reserved.
     * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
     * // export type Ng1Token =
string;
    export type Ng1Expression = string | Function;
    export interface IAnnotatedFunction extends Function {
        // Older versions of `@types/angular` typings extend the global `Function` interface with `inject?`
        string[], which is not compatible with `inject?: ReadonlyArray<string>` (used in latest versions).
        inject?:
        Function extends{inject?: string[]}? Ng1Token[]: ReadonlyArray<Ng1Token>;
    }
    export type IInjectable =
(Ng1Token | Function)[] | IAnnotatedFunction;
    export type SingleOrListOrMap<T> = T | T[] | {[key: string]:
T};
    export interface IModule {
        name: string;
        requires: (string|IInjectable)[];
        config(fn: IInjectable):
        IModule;
        directive(selector: string, factory: IInjectable): IModule;
        component(selector: string, component:
        IComponent): IModule;
        controller(name: string, type: IInjectable): IModule;
        factory(key: Ng1Token,
        factoryFn: IInjectable): IModule;
        value(key: Ng1Token, value: any): IModule;
        constant(token: Ng1Token,
        value: any): IModule;
        run(a: IInjectable): IModule;
    }
    export interface ICompileService {
        (element:
        Element|NodeList|Node[])string, transclude?: Function): ILinkFn;
    }
    export interface ILinkFn {
        (scope: IScope,
        cloneAttachFn?: ICloneAttachFunction, options?: ILinkFnOptions): IAugmentedJQuery;
        $$slots?: {[slotName:
        string]:
        ILinkFn};
    }
    export interface ILinkFnOptions {
        parentBoundTranscludeFn?: Function;
        transcludeControllers?: {[key: string]: any};
        futureParentElement?: Node;
    }
    export interface
    IRootScopeService {
        $new(isolate?: boolean): IScope;
        $id: string;
        $parent: IScope;
        $root: IScope;
    }

```



```

Swatch(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
}\n
\nexport interface IScope extends IRootScopeService {\n
\nexport interface IAngularBootstrapConfig { strictDi?: boolean;\n
}\n
\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
}\n
\nexport type DirectiveRequireProperty = SingleOrListOrMap<string>;\n
\nexport type DirectiveTranscludeProperty = boolean | 'element' | {[key: string]: string};\n
\nexport interface IDirectiveCompileFn {\n
  (templateElement: IAugmentedJQuery, templateAttributes: IAttributes,\n
  transclude: ITranscludeFunction): IDirectivePrePost;\n
}\n
\nexport interface IDirectivePrePost {\n
  pre?: IDirectiveLinkFn;\n
  post?: IDirectiveLinkFn;\n
}\n
\nexport interface IDirectiveLinkFn {\n
  (scope: IScope, instanceElement: IAugmentedJQuery, instanceAttributes: IAttributes,\n
  controller: any, transclude: ITranscludeFunction): void;\n
}\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
}\n
\nexport interface IAttributes {\n
  $observe(attr: string, fn: (v: string) => void): void;\n
  [key: string]: any;\n
}\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
}\n
\nexport interface ICloneAttachFunction {\n
  (clonedElement: IAugmentedJQuery, scope: IScope): any;\n
}\n
\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
};\n
\nexport interface IProvider {\n
  $get: IInjectable;\n
}\n
\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
}\n
\nexport interface IParseService {\n
  (expression: string): ICompiledExpression;\n
}\n
\nexport interface ICompiledExpression {\n
  (context: any, locals: any): any;\n
  assign?: (context: any, value: any) => any;\n
}\n
\nexport interface IHttpBackendService {\n
  (method: string, url: string, post?: any, callback?: Function, headers?: any, timeout?: number,\n
  withCredentials?: boolean): void;\n
}\n
\nexport interface ICacheObject {\n
  put<T>(key: string, value?: T): T;\n
  get(key: string): any;\n
}\n
\nexport interface ITemplateCacheService extends ICacheObject {\n
}\n
\nexport interface ITemplateRequestService {\n
  (template: string|any /* TrustedResourceUrl */, ignoreRequestError?: boolean): Promise<string>;\n
  totalPendingRequests: number;\n
}\n
\nexport type IController = string | IInjectable;\n
\nexport interface IControllerService {\n
  (controllerConstructor: IController, locals?: any, later?: any, ident?: any): any;\n
  (controllerName: string, locals?: any): any;\n
}\n
\nexport interface IInjectorService {\n
  get(key: string): any;\n
  has(key: string):

```

```

boolean;\n}\n\nexport interface IIntervalService {\n (func: Function, delay: number, count?: number,\n invokeApply?: boolean,\n ...args: any[]): Promise<any>;\n cancel(promise: Promise<any>): boolean;\n}\n\nexport\ninterface ITestabilityService {\n findBindings(element: Element, expression: string, opt_exactMatch?: boolean):\n Element[];\n findModels(element: Element, expression: string, opt_exactMatch?: boolean): Element[];\n getLocation(): string;\n setLocation(url: string): void;\n whenStable(callback: Function): void;\n}\n\nexport\ninterface INgModelController {\n $render(): void;\n $isEmpty(value: any): boolean;\n\n $setValidity(validationErrorKey: string, isValid: boolean): void;\n $setPristine(): void;\n $setDirty(): void;\n\n $setUntouched(): void;\n $setTouched(): void;\n $rollbackViewValue(): void;\n $validate(): void;\n\n $commitViewValue(): void;\n $setViewValue(value: any, trigger: string): void;\n\n $viewValue: any;\n\n $modelValue: any;\n\n $parsers: Function[];\n\n $formatters: Function[];\n\n $validators: {[key: string]: Function};\n\n $asyncValidators: {[key: string]: Function};\n\n $viewChangeListeners: Function[];\n\n $error: Object;\n\n $pending: Object;\n\n $untouched: boolean;\n\n $touched:\n boolean;\n\n $pristine: boolean;\n\n $dirty: boolean;\n\n $valid: boolean;\n\n $invalid: boolean;\n\n $name:\n string;\n}\n\nfunction noNg(): never {\n throw new Error('AngularJS v1.x is not loaded!');\n}\n\nconst\nnoNgElement: typeof angular.element = ((() => noNg()) as any);\nnoNgElement.cleanData = noNg;\n\nlet angular:\n {\n bootstrap: (e: Element, modules: (string | IInjectable)[], config?: IAngularBootstrapConfig) =>\n InjectorService,\n module: (prefix: string, dependencies?: string[]) => IModule,\n element: {\n (e: string | Element | Document | IAugmentedJQuery): IAugmentedJQuery;\n cleanData: (nodes: Node[] | NodeList) =>\n void;\n },\n injector: (modules: Array<string|IInjectable>, strictDi?: boolean) => InjectorService,\n version:\n {major: number},\n resumeBootstrap: () => void,\n getTestability: (e: Element) => ITestabilityService\n } = {\n bootstrap: noNg,\n module: noNg,\n element: noNgElement,\n injector: noNg,\n version: undefined as any,\n resumeBootstrap: noNg,\n getTestability: noNg\n};\n\ntry {\n if (window.hasOwnProperty('angular')) {\n angular\n = (<any>window).angular;\n }\n } catch {\n // ignore in CJS mode.\n }\n\n/**\n * @deprecated Use\n `setAngularJSGlobal` instead.\n *\n * @publicApi\n */\n\nexport function setAngularLib(ng: any): void {\n\n setAngularJSGlobal(ng);\n}\n\n/**\n * @deprecated Use `getAngularJSGlobal` instead.\n *\n * @publicApi\n */\n\nexport function getAngularLib(): any {\n\n return getAngularJSGlobal();\n}\n\n/**\n * Resets the AngularJS\n global.\n *\n * Used when AngularJS is loaded lazily, and not available on `window`.\n *\n * @publicApi\n */\n\nexport function setAngularJSGlobal(ng: any): void {\n\n angular = ng;\n}\n\n/**\n * Returns the current\n AngularJS global.\n *\n *\n */\n\n@publicApi\n */\n\nexport function getAngularJSGlobal(): any {\n\n return angular;\n}\n\nexport const bootstrap:\n typeof angular.bootstrap = (e, modules, config?) =>\n angular.bootstrap(e, modules, config);\n\n// Do not declare\n as `module` to avoid webpack bug\n// (see https://github.com/angular/angular/issues/30050).\n\nexport const\n module_: typeof angular.module = (prefix, dependencies?) =>\n angular.module(prefix, dependencies);\n\nexport\n const element: typeof angular.element = (e => angular.element(e)) as\n typeof angular.element;\n\nexport\n const element.cleanData = nodes => angular.element.cleanData(nodes);\n\nexport\n const injector: typeof angular.injector = (\n (modules:\n Array<string|IInjectable>, strictDi?: boolean) => angular.injector(modules, strictDi);\n\nexport\n const\n resumeBootstrap: typeof angular.resumeBootstrap = () => angular.resumeBootstrap();\n\nexport\n const\n getTestability: typeof angular.getTestability = e => angular.getTestability(e);\n\n", "/*!\n\n*****\r\nCopyright\n\n(c) Microsoft Corporation. All rights reserved.\r\nLicensed under the Apache License, Version 2.0 (the\n`License`); you may not use\r\nthis file except in compliance with the License. You may obtain a copy of\nthe\r\nLicense at http://www.apache.org/licenses/LICENSE-2.0\r\n\r\nTHIS CODE IS PROVIDED ON AN *AS\nIS* BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY\r\nKIND, EITHER EXPRESS OR\nIMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED\r\nWARRANTIES OR CONDITIONS OF\nTITLE, FITNESS FOR A PARTICULAR PURPOSE,\r\nMERCHANTABILITY OR NON-\nINFRINGEMENT.\r\n\r\nSee the Apache Version 2.0 License for specific language governing permissions\r\nand\nlimitations under the\nLicense.\r\n\n***** */\r\n\n*/\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) : (__proto__ = 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.getPrototypeOf(s) !== "function")\r\n
for (var i = 0, p = Object.getPrototypeOf(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 step(result) { result.done ?
resolve(result.value) : new P(function (resolve) { resolve(result.value); }).then(fulfilled, rejected); }\r\n
step((generator = generator.apply(thisArg, _arguments || [])).next());\r\n  });\r\n}\r\n\r\nexport function
__generator(thisArg, body) {\r\n  var _ = { label: 0, sent: function() { if (t[0] & 1) throw t[1]; return t[1]; }, trys: [],
ops: [] }, f, y, t, g;\r\n  return g = { next: verb(0), "throw": verb(1),
"return": verb(2) }, typeof Symbol === "function" && (g[Symbol.iterator] = function() { return this; }), g;\r\n
function verb(n) { return function (v) { return step([n, v]); }; }\r\n  function step(op) {\r\n    if (f) throw new
TypeError("Generator is already executing.");\r\n    while (__) try {\r\n      if (f = 1, y && (t = op[0] & 2 ?
y["return"] : op[0] ? y["throw"] || ((t = y["return"]) && t.call(y), 0) : y.next) && !(t = t.call(y, op[1])).done)
return t;\r\n      if (y = 0, t) op = [op[0] & 2, t.value];\r\n      switch (op[0]) {\r\n        case 0: case 1: t =
op; break;\r\n        case 4: _.label++; return { value: op[1], done: false }; \r\n        case 5: _.label++; y =
op[1]; op = [0]; continue;\r\n        case 7: op = _.ops.pop(); _.trys.pop(); continue;\r\n        default:\r\n
if (!(t = _.trys, t = t.length > 0 && t[t.length - 1]) && (op[0] === 6 || op[0] === 2)) { _ = 0; continue;
}\r\n        if (op[0] === 3 && (!t || (op[1] > t[0] && op[1] < t[3]))) { _.label = op[1]; break; }\r\n
if (op[0] === 6 && _.label < t[1]) { _.label = t[1]; t = op; break; }\r\n        if (t && _.label < t[2]) {
_.label = t[2]; _.ops.push(op); break; }\r\n        if (t[2] && _.ops.pop();\r\n        _.trys.pop(); continue;\r\n
}\r\n        op = body.call(thisArg, _);\r\n      } catch (e) { op = [6, e]; y = 0; } finally { f = t = 0; }\r\n      if (op[0]
& 5) throw op[1]; return { value: op[0] ? op[1] : void 0, done: true }; \r\n    }\r\n  }\r\n}\r\n\r\nexport function
__exportStar(m, exports) {\r\n  for (var p in m) if (!exports.hasOwnProperty(p)) exports[p] =
m[p];\r\n}\r\n\r\nexport function __values(o) {\r\n  var m = typeof Symbol === "function" &&
o[Symbol.iterator], i = 0;\r\n  if (m) return m.call(o);\r\n  return {\r\n    next: function () {\r\n      if (o && i
>= o.length) o = void
0;\r\n      return { value: o && o[i++], done: !o }; \r\n    }\r\n  }; \r\n}\r\n\r\nexport function __read(o, n) {\r\n
var m = typeof Symbol === "function" && o[Symbol.iterator];\r\n  if (!m) return o;\r\n  var i = m.call(o), r, ar =

```

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[], e;\r\n try {\r\n while ((n === void 0 || n-- > 0) && !(r = i.next()).done) ar.push(r.value);\r\n }\r\n catch
(error) { e = { error: error }; }\r\n finally {\r\n try {\r\n if (r && !r.done && (m = i["return"]))
m.call(i);\r\n }\r\n finally { if (e) throw e.error; }\r\n }\r\n return ar;\r\n}\r\n\r\nexport function
__spread() {\r\n for (var ar = [], i = 0; i < arguments.length; i++)\r\n ar = ar.concat(__read(arguments[i]));\r\n
return ar;\r\n}\r\n\r\nexport function __spreadArrays() {\r\n for (var s = 0, i = 0, il = arguments.length; i < il; i++) s
+= arguments[i].length;\r\n for (var r = Array(s), k = 0, i = 0; i < il; i++)\r\n for (var a = arguments[i],
j = 0, jl = a.length; j < jl; j++, k++)\r\n r[k] = a[j];\r\n return r;\r\n}\r\n\r\nexport function __await(v) {\r\n
return this instanceof __await ? (this.v = v, this) : new __await(v);\r\n}\r\n\r\nexport function
__asyncGenerator(thisArg, _arguments, generator) {\r\n if (!Symbol.asyncIterator) throw new
TypeError("Symbol.asyncIterator is not defined.");\r\n var g = generator.apply(thisArg, _arguments || []), i, q =
[];\r\n return i = { }, verb("next"), verb("throw"), verb("return"), i[Symbol.asyncIterator] = function () { return
this; }, i;\r\n function verb(n) { if (g[n]) i[n] = function (v) { return new Promise(function (a, b) { q.push([n, v, a,
b]) > 1 || resume(n, v); }); }; }\r\n function resume(n, v) { try { step(g[n](v)); } catch (e) { settle(q[0][3], e); } }\r\n
function step(r) { r.value instanceof __await ? Promise.resolve(r.value.v).then(fulfill, reject) : settle(q[0][2], r);
}\r\n function fulfill(value) { resume("next",
value); }\r\n function reject(value) { resume("throw", value); }\r\n function settle(f, v) { if (f(v), q.shift(),
q.length) resume(q[0][0], q[0][1]); }\r\n}\r\n\r\nexport function __asyncDelegator(o) {\r\n var i, p;\r\n return i =
{ }, verb("next"), verb("throw"), function (e) { throw e; }, verb("return"), i[Symbol.iterator] = function () {
return this; }, i;\r\n function verb(n, f) { i[n] = o[n] ? function (v) { return (p = !p) ? { value: __await(o[n](v)),
done: n === "return" } : f ? f(v) : v; } : f; }\r\n}\r\n\r\nexport function __asyncValues(o) {\r\n if
(!Symbol.asyncIterator) throw new TypeError("Symbol.asyncIterator is not defined.");\r\n var m =
o[Symbol.asyncIterator], i;\r\n return m ? m.call(o) : (o = typeof __values === "function" ? __values(o) :
o[Symbol.iterator](), i = { }, verb("next"), verb("throw"), verb("return"), i[Symbol.asyncIterator] = function () {
return this; }, i);\r\n function verb(n) { i[n] = o[n] && function (v)
{ return new Promise(function (resolve, reject) { v = o[n](v), settle(resolve, reject, v.done, v.value); }); }; }\r\n
function settle(resolve, reject, d, v) { Promise.resolve(v).then(function(v) { resolve({ value: v, done: d }); }, reject);
}\r\n}\r\n\r\nexport function __makeTemplateObject(cooked, raw) {\r\n if (Object.defineProperty) {
Object.defineProperty(cooked, "raw", { value: raw }); } else { cooked.raw = raw; }\r\n return
cooked;\r\n}\r\n\r\nexport function __importStar(mod) {\r\n if (mod && mod.__esModule) return mod;\r\n var
result = {};\r\n if (mod != null) for (var k in mod) if (Object.hasOwnProperty.call(mod, k)) result[k] = mod[k];\r\n
result.default = mod;\r\n return result;\r\n}\r\n\r\nexport function __importDefault(mod) {\r\n return (mod &&
mod.__esModule) ? mod : { default: mod };\r\n}\r\n}\r\n\r\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\nexport const $COMPILE = '$compile';\nexport const
$CONTROLLER = '$controller';\nexport const $DELEGATE = '$delegate';\nexport const
$EXCEPTION_HANDLER = '$exceptionHandler';\nexport const $HTTP_BACKEND = '$httpBackend';\nexport
const $INJECTOR = '$injector';\nexport const $INTERVAL = '$interval';\nexport const $PARSE = '$parse';\nexport
const $PROVIDE = '$provide';\nexport const $ROOT_SCOPE = '$rootScope';\nexport const $SCOPE =
$scope';\nexport const $TEMPLATE_CACHE = '$templateCache';\nexport const $TEMPLATE_REQUEST =
'$templateRequest';\n\nexport const $TESTABILITY = '$$testability';\n\nexport const COMPILER_KEY =
'$angularCompiler';\nexport const DOWNGRADED_MODULE_COUNT_KEY =
'$angularDowngradedModuleCount';\nexport const GROUP_PROJECTABLE_NODES_KEY =
'$angularGroupProjectableNodes';\nexport const INJECTOR_KEY = '$angularInjector';\nexport const
LAZY_MODULE_REF = '$angularLazyModuleRef';\nexport const NG_ZONE_KEY
= '$angularNgZone';\nexport const UPGRADE_APP_TYPE_KEY = '$angularUpgradeAppType';\n\nexport
const REQUIRE_INJECTOR = '^' + INJECTOR_KEY;\nexport const REQUIRE_NG_MODEL =
'?ngModel';\n\nexport const UPGRADE_MODULE_NAME = '$$UpgradeModule';\n"/**\n * @license\n *
Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that

```

can be found in the LICENSE file at <https://angular.io/license> A `PropertyBinding` represents a mapping between a property name and an attribute name. It is parsed from a string of the form `prop:attr` or simply `propAndAttr` where the property and attribute have the same identifier.

```
export class PropertyBinding {
  // TODO(issue/24571): remove '!'.
  bracketAttr!: string;
  // TODO(issue/24571): remove '!'.
  bracketParenAttr!: string;
  // TODO(issue/24571): remove '!'.
  parenAttr!: string;
  // TODO(issue/24571): remove '!'.
  onAttr!: string;
  // TODO(issue/24571): remove '!'.
  bindAttr!: string;
  // TODO(issue/24571): remove '!'.
  bindonAttr!: string;
}
```

```
constructor(public prop: string, public attr: string) { this.parseBinding(); }
private parseBinding() {
  this.bracketAttr = `[${this.attr}]`;
  this.parenAttr = `(${this.attr})`;
  this.bracketParenAttr = `[(${this.attr})]`;
  const capitalAttr = this.attr.charAt(0).toUpperCase() + this.attr.substr(1);
  this.onAttr = `on${capitalAttr}`;
  this.bindAttr = `bind${capitalAttr}`;
  this.bindonAttr = `bindon${capitalAttr}`;
}

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 '
            \n` + `more than one Angular module (via \`${downgradeModule()}\`.');
          }
          break;
      case UpgradeAppType.Lite:
        if (!downgradedModule && (downgradedModuleCount >= 2)) {
          throw new Error(`Error while ${attemptedAction}: 'downgradedModule' not specified.
            \n` + `This application contains more than one downgraded Angular module, thus you need to '
            \n` + `always specify \`${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 '
            \n` + `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 '
            \n` + `application?`);
    }
  }
  export class Deferred<R> {
    promise: Promise<R>;
    // 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  // App using the deprecated `@angular/upgrade` APIs
(a.k.a. dynamic `ngUpgrade`).\n  Dynamic,\n  // App using `@angular/upgrade/static` with `UpgradeModule`.\n
  Static,\n  // App using `@angular/upgrade/static` with `downgradeModule()` (a.k.a. `ngUpgrade-lite`).\n
  Lite,\n}\n\n/**\n * @return Whether the passed-in component implements the subset of the\n *
`ControlValueAccessor` interface needed for AngularJS `ng-model`\n * compatibility.\n */\nfunction
supportsNgModel(component: any) {\n  return typeof component.writeValue === 'function' &&\n    typeof
component.registerOnChange === 'function';\n}\n\n/**\n * Glue the AngularJS `NgModelController` (if it exists) to
the component\n * (if it implements the needed subset of the `ControlValueAccessor` interface).\n */\nexport
function hookupNgModel(ngModel: INgModelController, component: any) {\n  if (ngModel &&
supportsNgModel(component)) {\n    ngModel.$render = () => { component.writeValue(ngModel.$viewValue); };\n
    component.registerOnChange(ngModel.$setViewValue.bind(ngModel));\n    if (typeof
component.registerOnTouched === 'function') {\n
component.registerOnTouched(ngModel.$setTouched.bind(ngModel));\n
  }\n }\n}\n\n/**\n * Test two values for strict equality, accounting for the fact that `NaN !== NaN`.\n */\nexport
function strictEquals(val1: any, val2: any): boolean {\n  return val1 === val2 || (val1 !== val1 && val2 !==
val2);\n}\n\n", "/*\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is
governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n
*/\n\nimport { ApplicationRef, ChangeDetectorRef, ComponentFactory, ComponentRef, EventEmitter, Injector,
OnChanges, SimpleChange, SimpleChanges, StaticProvider, Testability, TestabilityRegistry, Type } from
'@angular/core';\n\nimport { IAttributes, IAugmentedJQuery, ICompileService, IInjectorService,
INgModelController, IParseService, IScope } from './angular!';\n\nimport { PropertyBinding } from
'./component_info';\n\nimport { $$SCOPE } from './constants';\n\nimport { getTypeName, hookupNgModel, strictEquals }
from
'./util';\n\nconst INITIAL_VALUE = {\n  __UNINITIALIZED__: true\n};\n\nexport class
DowngradeComponentAdapter {\n  private implementsOnChanges = false;\n  private inputChangeCount: number =
0;\n  private inputChanges: SimpleChanges = {};\n  private componentScope: IScope;\n  // TODO(issue/24571):
remove '!\n  private componentRef!: ComponentRef<any>;\n  private component: any;\n  // TODO(issue/24571):
remove '!\n  private changeDetector!: ChangeDetectorRef;\n  // TODO(issue/24571): remove '!\n  private
viewChangeDetector!: ChangeDetectorRef;\n\n  constructor(\n    private element: IAugmentedJQuery, private
attrs: IAttributes, private scope: IScope,\n    private ngModel: INgModelController, private parentInjector:
Injector,\n    private $injector: IInjectorService, private $compile: ICompileService,\n    private $parse:
IParseService, private componentFactory: ComponentFactory<any>,\n    private wrapCallback: <T>(cb: () => T)
=> () => T) {\n    this.componentScope
= scope.$new();\n  }\n\n  compileContents(): Node[][] {\n    const compiledProjectableNodes: Node[][] = [];\n
const projectableNodes: Node[][] = this.groupProjectableNodes();\n    const linkFns = projectableNodes.map(nodes
=> this.$compile(nodes));\n\n    this.element.empty !();\n\n    linkFns.forEach(linkFn => {\n      linkFn(this.scope,
(clone: Node[]) => {\n        compiledProjectableNodes.push(clone);\n        this.element.append !(clone);\n
      });\n\n      return compiledProjectableNodes;\n    });\n\n    createComponent(projectableNodes: Node[][])) {\n
const providers: StaticProvider[] = [{ provide: $$SCOPE, useValue: this.componentScope }];\n    const childInjector =
Injector.create(\n      { providers: providers, parent: this.parentInjector, name:
'DowngradeComponentAdapter'});\n\n    this.componentRef =\n      this.componentFactory.create(childInjector,
projectableNodes, this.element[0]);\n    this.viewChangeDetector =
this.componentRef.injector.get(ChangeDetectorRef);\n

```

```

    this.changeDetector = this.componentRef.changeDetectorRef;\n    this.component =
this.componentRef.instance;\n    // testability hook is commonly added during component bootstrap in\n    //
packages/core/src/application_ref.bootstrap()\n    // in downgraded application, component creation will take place
here as well as adding the\n    // testability hook.\n    const testability = this.componentRef.injector.get(Testability,
null);\n    if (testability) {\n        this.componentRef.injector.get(TestabilityRegistry)\n
.registerApplication(this.componentRef.location.nativeElement, testability);\n    }\n\n    hookupNgModel(this.ngModel, this.component);\n    }\n\n    setupInputs(manuallyAttachView: boolean,
propagateDigest = true): void {\n        const attrs = this.attrs;\n        const inputs = this.componentFactory.inputs || [];\n        for (let i = 0; i < inputs.length; i++) {\n            const input = new PropertyBinding(inputs[i].propName,
inputs[i].templateName);\n            let expr: string|null
= null;\n            if (attrs.hasOwnProperty(input.attr)) {\n                const observeFn = (prop => {\n                    let prevValue =
INITIAL_VALUE;\n                    return (currValue: any) => {\n                        // Initially, both `observe()` and `watch()` will
call this function.\n                        if (!strictEquals(prevValue, currValue)) {\n                            if (prevValue ===
INITIAL_VALUE) {\n                                prevValue = currValue;\n                            }\n                            this.updateInput(prop, prevValue,
currValue);\n                                prevValue = currValue;\n                            }\n                        }\n                    })(input.prop);\n                attrs.$observe(input.attr, observeFn);\n                // Use `watch()` (in addition to `observe()`) in order to initialize the
input in time\n                // for `ngOnChanges()`. This is necessary if we are already in a `digest`, which means that\n                // `ngOnChanges()` (which is called by a watcher) will run before the `observe()` callback.\n                let unwatch:
Function|null = this.componentScope.$watch(()
=> {\n                    unwatch !();\n                    unwatch = null;\n                    observeFn(attrs[input.attr]);\n                });\n                } else if
(attrs.hasOwnProperty(input.bindAttr)) {\n                    expr = attrs[input.bindAttr];\n                } else if
(attrs.hasOwnProperty(input.bracketAttr)) {\n                    expr = attrs[input.bracketAttr];\n                } else if
(attrs.hasOwnProperty(input.bindonAttr)) {\n                    expr = attrs[input.bindonAttr];\n                } else if
(attrs.hasOwnProperty(input.bracketParenAttr)) {\n                    expr = attrs[input.bracketParenAttr];\n                }\n                if (expr !=
null) {\n                    const watchFn =\n                        (prop => (currValue: any, prevValue: any) =>{\n
this.updateInput(prop, prevValue, currValue))(input.prop);\n                    this.componentScope.$watch(expr, watchFn);\n                }\n                }\n                // Invoke `ngOnChanges()` and Change Detection (when necessary)\n                const detectChanges = () =>
this.changeDetector.detectChanges();\n                const prototype = this.componentFactory.componentType.prototype;\n                this.implementsOnChanges = !(prototype && (<OnChanges>prototype).ngOnChanges);\n                this.componentScope.$watch(() => this.inputChangeCount, this.wrapCallback(() => {\n                    // Invoke
`ngOnChanges()`\n                    if (this.implementsOnChanges) {\n                        const inputChanges = this.inputChanges;\n                        this.inputChanges = {};\n                        (<OnChanges>this.component).ngOnChanges(inputChanges !);\n                    }\n                })\n                this.viewChangeDetector.markForCheck();\n                // If opted out of propagating digests, invoke change detection
when inputs change.\n                if (!propagateDigest) {\n                    detectChanges();\n                }\n                // If not opted out of
propagating digests, invoke change detection on every digest\n                if (propagateDigest) {\n                    this.componentScope.$watch(this.wrapCallback(detectChanges));\n                }\n                // If necessary, attach the view so that
it will be dirty-checked.\n                // (Allow time for the initial input values to be set and `ngOnChanges()` to be called.)\n                if (manuallyAttachView
|| !propagateDigest) {\n                    let unwatch: Function|null = this.componentScope.$watch(() => {\n                        unwatch !();\n                        unwatch = null;\n                    }\n                    const appRef = this.parentInjector.get<ApplicationRef>(ApplicationRef);\n                    appRef.attachView(this.componentRef.hostView);\n                });\n                }\n                }\n                setupOutputs() {\n                    const attrs =
this.attrs;\n                    const outputs = this.componentFactory.outputs || [];\n                    for (let j = 0; j < outputs.length; j++) {\n                        const output = new PropertyBinding(outputs[j].propName, outputs[j].templateName);\n                        const bindonAttr =
output.bindonAttr.substring(0, output.bindonAttr.length - 6);\n                        const bracketParenAttr =\n                            `[$${output.bracketParenAttr.substring(2, output.bracketParenAttr.length - 8)}]`;
// order below is important -
first update bindings then evaluate expressions\n                        if (attrs.hasOwnProperty(bindonAttr)) {\n                            this.subscribeToOutput(output, attrs[bindonAttr], true);\n                        }\n                        if (attrs.hasOwnProperty(bracketParenAttr))

```

```

    {\n      this.subscribeToOutput(output, attrs[bracketParenAttr], true);\n    }\n    if
(attrs.hasOwnProperty(output.onAttr)) {\n      this.subscribeToOutput(output, attrs[output.onAttr]);\n    }\n    if
(attrs.hasOwnProperty(output.parenAttr)) {\n      this.subscribeToOutput(output, attrs[output.parenAttr]);\n    }\n  }\n}\n\n private subscribeToOutput(output: PropertyBinding, expr: string, isAssignment: boolean = false) {\n
const getter = this.$parse(expr);\n  const setter = getter.assign;\n  if (isAssignment && !setter) {\n    throw new
Error('Expression `${expr}` is not assignable!');\n  }\n  const emitter = this.component[output.prop] as
EventEmitter<any>;\n  if (emitter) {\n    emitter.subscribe({\n      next: isAssignment ? (v: any) => setter
!(this.scope, v) :\n        (v: any) => getter(this.scope, {'$event': v})\n    });\n  } else {\n    throw new
Error(\n      `Missing
emitter '${output.prop}' on component '${getTypeName(this.componentFactory.componentType)}'`);\n  }\n}\n\n
registerCleanup() {\n  const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);\n
const destroyComponentRef = this.wrapCallback(() => this.componentRef.destroy());\n  let destroyed = false;\n
this.element.on !('$destroy', () => this.componentScope.$destroy());\n  this.componentScope.$on('$destroy', () =>
{\n    if (!destroyed) {\n      destroyed = true;\n    }\n    testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);\n
destroyComponentRef();\n  });\n}\n\n getInjector(): Injector { return this.componentRef.injector; }\n\n
private updateInput(prop: string, prevValue: any, currValue: any) {\n  if (this.implementsOnChanges) {\n
this.inputChanges[prop] = new SimpleChange(prevValue, currValue, prevValue === currValue);\n  }\n}\n\n
this.inputChangeCount++;\n  this.component[prop]
= currValue;\n}\n\n groupProjectableNodes() {\n  let ngContentSelectors =
this.componentFactory.ngContentSelectors;\n  return groupNodesBySelector(ngContentSelectors,
this.element.contents !());\n}\n\n\n/**\n * Group a set of DOM nodes into `ngContent` groups, based on the given
content selectors.\n */\nexport function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]):
Node[][] {\n  const projectableNodes: Node[][] = [];\n  let wildcardNgContentIndex: number;\n\n  for (let i = 0, ii =
ngContentSelectors.length; i < ii; ++i) {\n    projectableNodes[i] = [];\n  }\n\n  for (let j = 0, jj = nodes.length; j < jj;
++j) {\n    const node = nodes[j];\n    const ngContentIndex = findMatchingNgContentIndex(node,
ngContentSelectors);\n    if (ngContentIndex != null) {\n      projectableNodes[ngContentIndex].push(node);\n    }\n  }\n\n
return projectableNodes;\n}\n\nfunction findMatchingNgContentIndex(element: any, ngContentSelectors:
string[]): number|null {\n  const
ngContentIndices: number[] = [];\n  let wildcardNgContentIndex: number = -1;\n  for (let i = 0; i <
ngContentSelectors.length; i++) {\n    const selector = ngContentSelectors[i];\n    if (selector === '*') {\n
wildcardNgContentIndex = i;\n    } else {\n      if (matchesSelector(element, selector)) {\n
ngContentIndices.push(i);\n      }\n    }\n  }\n\n  ngContentIndices.sort();\n\n  if (wildcardNgContentIndex !== -1) {\n
ngContentIndices.push(wildcardNgContentIndex);\n  }\n\n  return ngContentIndices.length ? ngContentIndices[0] :
null;\n}\n\nlet _matches: (this: any, selector: string) => boolean;\nfunction matchesSelector(el: any, selector:
string): boolean {\n  if (!_matches) {\n    const elProto = <any>Element.prototype;\n    _matches = elProto.matches ||
elProto.matchesSelector || elProto.mozMatchesSelector || elProto.msMatchesSelector ||
elProto.oMatchesSelector || elProto.webkitMatchesSelector;\n  }\n  return el.nodeType ===
Node.ELEMENT_NODE ? _matches.call(el,
selector) : false;\n}\n\n",/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source
code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n
*/\nimport {isFunction} from './util';\nexport interface Thenable<T> { then(callback: (value: T) => any): any;
}\nexport function isThenable<T>(obj: unknown): obj is Thenable<T> {\n  return !!obj && isFunction((obj as
any).then);\n}\n\n/**\n * Synchronous, promise-like object.\n */\nexport class SyncPromise<T> {\n  protected
value: T|undefined;\n  private resolved = false;\n  private callbacks: ((value: T) => unknown)[] = [];\n\n  static
all<T>(valuesOrPromises: (T|Thenable<T>)[]): SyncPromise<T[]> {\n    const aggrPromise = new
SyncPromise<T[]>();\n\n    let resolvedCount = 0;\n    const results: T[] = [];\n    const resolve = (idx: number,
value: T) => {\n      results[idx] = value;\n      if (++resolvedCount === valuesOrPromises.length)

```



```

aggrPromise.resolve(results);\n
  });\n\n  valuesOrPromises.forEach((p, idx) => {\n    if (isThenable(p)) {\n      p.then(v => resolve(idx, v));\n    } else {\n      resolve(idx, p);\n    }\n  });\n\n  return aggrPromise;\n }\n\n resolve(value: T): void {\n  // Do nothing, if already resolved.\n  if (this.resolved) return;\n\n  this.value = value;\n  this.resolved = true;\n\n  // Run the queued callbacks.\n  this.callbacks.forEach(callback => callback(value));\n  this.callbacks.length = 0;\n }\n\n then(callback: (value: T) => unknown): void {\n  if (this.resolved) {\n    callback(this.value !);\n  } else {\n    this.callbacks.push(callback);\n  }\n }\n}\n\n",/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport {ComponentFactory, ComponentFactoryResolver, Injector, NgZone, Type} from '@angular/core';\n\nimport {\n  IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective, IInjectorService, INgModelController, IParseService, IScope\n} from './angular1';\nimport {$COMPILE, $INJECTOR, $PARSE, INJECTOR_KEY, LAZY_MODULE_REF, REQUIRE_INJECTOR, REQUIRE_NG_MODEL} from './constants';\nimport {DowngradeComponentAdapter} from './downgrade_component_adapter';\nimport {SyncPromise, Thenable} from './promise_util';\nimport {LazyModuleRef, UpgradeAppType, controllerKey, getDowngradedModuleCount, getTypeName, getUpgradeAppType, validateInjectionKey} from './util';\n\n/**\n * @description\n * A helper function that allows an Angular component to be used from AngularJS.\n * Part of the [upgrade/static](api?query=upgrade%2Fstatic)\n * library for hybrid upgrade apps that support AOT compilation.\n * This helper function returns a factory function to be used for registering\n * an AngularJS wrapper directive for "downgrading" an Angular component.\n *\n * @usageNotes\n * ### Examples\n * Let's assume that you have an Angular component called `ng2Heroes` that needs\n * to be made available in AngularJS templates.\n * { @example upgrade/static/ts/full/module.ts region="ng2-heroes" }\n * We must create an AngularJS [directive](https://docs.angularjs.org/guide/directive)\n * that will make this Angular component available inside AngularJS templates.\n * The `downgradeComponent()` function returns a factory function that we\n * can use to define the AngularJS directive that wraps the "downgraded" component.\n * { @example upgrade/static/ts/full/module.ts region="ng2-heroes-wrapper" }\n * For more details and examples on downgrading Angular components to AngularJS components please\n * visit the [Upgrade guide](guide/upgrade#using-angular-components-from-angularjs-code).\n * @param info contains information about the Component that is being downgraded:\n * - `component: Type<any>`: The type of the Component that will be downgraded\n * - `downgradedModule?: string`: The name of the downgraded module (if any) that the component\n * belongs to", as returned by a call to `downgradeModule()`. It is the module, whose\n * corresponding Angular module will be bootstrapped, when the component needs to be instantiated.\n * <br />\n * (This option is only necessary when using `downgradeModule()` to downgrade more than one\n * Angular module.)\n * - `propagateDigest?: boolean`: Whether to perform { @link ChangeDetectorRef#detectChanges\n * change detection} on the component on every\n *\n * [$digest](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest). If set to `false`,\n * change detection will still be performed when any of the component's inputs changes.\n * (Default: true)\n * @returns a factory function that can be used to register the component in an\n * AngularJS module.\n * @publicApi\n */\nexport function downgradeComponent(info: {\n  component: Type<any>;\n  downgradedModule?: string;\n  propagateDigest?: boolean;\n  /** @deprecated since v4. This parameter is no longer used */\n  inputs?: string[];\n  /** @deprecated since v4. This parameter is no longer used */\n  outputs?: string[];\n  /** @deprecated since v4. This parameter is no longer used */\n  selectors?: string[];\n}): any {\n  /** angular.IInjectable */\n  const directiveFactory: IAnnotatedFunction = function(\n    $compile: ICompileService, $injector: IInjectorService, $parse: IParseService): IDirective {\n    // When using `downgradeModule()`, we need to handle certain things specially. For example:\n    // - We always need to attach the component view to the `ApplicationRef` for it to be\n    // dirty-checked.\n    // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the\n    // Angular zone.\n    // NOTE: This is not needed, when using `UpgradeModule`, because

```

```

`$digest()` will be run\n //      inside the Angular zone (except if explicitly
escaped, in which case we shouldn't\n //      force it back in).\n const isNgUpgradeLite =
getUpgradeAppType($injector) === UpgradeAppType.Lite;\n const wrapCallback: <T>(cb: () => T) => typeof cb
=>\n     !isNgUpgradeLite ? cb => cb : cb => () => NgZone.isInAngularZone() ? cb() : ngZone.run(cb);\n let
ngZone: NgZone;\n // When downgrading multiple modules, special handling is needed wrt injectors.\n const
hasMultipleDowngradedModules =\n     isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);\n return {\n     restrict: 'E',\n     terminal: true,\n     require: [REQUIRE_INJECTOR, REQUIRE_NG_MODEL],\n     link: (scope: IScope, element: IAugmentedJQuery, attrs: IAttributes, required: any[]) => {\n         // We might have to
compile the contents asynchronously, because this might have been\n         // triggered by
`UpgradeNg1ComponentAdapterBuilder`, before the Angular templates have\n         // been compiled.\n         const
ngModel:
INgModelController = required[1];\n         const parentInjector: Injector|Thenable<Injector>|undefined =
required[0];\n         let moduleInjector: Injector|Thenable<Injector>|undefined = undefined;\n         let ranAsync =
false;\n         if (!parentInjector || hasMultipleDowngradedModules) {\n             const downgradedModule =
info.downgradedModule || "";\n             const lazyModuleRefKey =
`${LAZY_MODULE_REF}${downgradedModule}`;\n             const attemptedAction = `instantiating component
`${getTypeName(info.component)}";\n             validateInjectionKey($injector, downgradedModule,
lazyModuleRefKey, attemptedAction);\n             const lazyModuleRef = $injector.get(lazyModuleRefKey) as
LazyModuleRef;\n             moduleInjector = lazyModuleRef.injector || lazyModuleRef.promise as
Promise<Injector>;\n         }\n         // Notes:\n         //\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         //\n         // There
are basically three cases:\n         // - 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         // - 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         // - If there is a parent component, but it
may belong to a different `NgModule`, then we\n         // use the `parentInjector` as `finalParentInjector` and this
downgraded component's\n         // declaring `NgModule`'s injector as `finalModuleInjector`.\n         // Note 1: If
the `NgModule` is already bootstrapped, we just get its injector (we don't\n         // bootstrap again).\n         //
Note 2: It is possible that (while there are multiple downgraded modules) this\n         // downgraded component
and its parent component both belong to the same NgModule.\n         // In that case, we could have used the
`parentInjector` as both\n         // `finalModuleInjector` and `finalParentInjector`, but (for simplicity) we are\n
// treating this case as if they belong to different `NgModule`s. That doesn't\n         // really affect
anything,
since `parentInjector` has `moduleInjector` as ancestor\n         // and trying to resolve
`ComponentFactoryResolver` from either one will return\n         // the same instance.\n         // If there is a
parent component, use its injector as parent injector.\n         // If this is a "top-level" Angular component, use the
module injector.\n         const finalParentInjector = parentInjector || moduleInjector !;\n         // If this is a "top-
level" Angular component or the parent component may belong to a\n         // different `NgModule`, use the module
injector for module-specific dependencies.\n         // If there is a parent component that belongs to the same
`NgModule`, use its injector.\n         const finalModuleInjector = moduleInjector || parentInjector !;\n         const
doDowngrade = (injector: Injector, moduleInjector: Injector) => {\n             // Retrieve `ComponentFactoryResolver`
from the injector tied to the `NgModule` this\n             // component

```



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.

`</div>`

`@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/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: IInjector =
      $injector.get(injectorKey);
    return injector.get(token);
  };
  (factory as any)['$inject'] = ['$INJECTOR'];
  return factory;
}

```

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

```

import { Version }
from '@angular/core';
@publicApi
export const VERSION = new Version('9.0.7');
@license
Copyright Google Inc. All Rights Reserved.
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import { IInjectorService } from '../src/common/src/angular1';
// We have to do a little dance to get the ng1 injector into the module injector.
// We store the ng1 injector so that the provider in the module injector can access it.
// Then we "get" the ng1 injector from the module injector, which triggers the provider to read the stored injector and release the reference to it.
let tempInjectorRef: IInjectorService | null = null;
export function
setTempInjectorRef(injector: IInjectorService) {
  tempInjectorRef = injector;
}
export function
injectorFactory() {
  if (!tempInjectorRef) {
    throw new Error("Trying to get the AngularJS injector before it being set.");
  }
  const injector: IInjectorService = tempInjectorRef;
  tempInjectorRef = null; // clear the value to prevent memory leaks
  return injector;
}
export function rootScopeFactory(i: IInjectorService) {
  return i.get('$rootScope');
}
export function compileFactory(i: IInjectorService) {
  return i.get('$compile');
}
export function parseFactory(i: IInjectorService) {
  return i.get('$parse');
}
export
const angularProviders = [
  // We must use exported named functions for the ng2 factories to keep the compiler happy:
  // > Metadata collected contains an error that will be reported at runtime:
  // > Function calls are not supported.
  // > Consider replacing the function or lambda with a reference to an exported function
  { provide: '$injector', useFactory: injectorFactory, deps: [] },
  { provide: '$rootScope', useFactory: rootScopeFactory, deps: ['$injector'] },
  { provide: '$compile', useFactory: compileFactory, deps: ['$injector'] },
  { provide: '$parse', useFactory: parseFactory, deps: ['$injector'] }
];
import { Injector, ÉµNOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR as NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR } from '@angular/core';
export class NgAdapterInjector implements Injector {
  constructor(private modInjector: Injector) {}
  // When Angular locate a service in the component injector tree, the not found value is set to
  `NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR`. In such a case we should not walk up to the module
  // injector.
  // AngularJS only supports a single tree and should always check the module injector.
  get(token: any, notFoundValue?: any): any {
    if (notFoundValue ===

```

```

NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR) {\n  return notFoundValue;\n }\n\n return
this.modInjector.get(token,
  notFoundValue);\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 { Injector, NgModuleFactory, NgModuleRef, StaticProvider } from
'@angular/core';\nimport { platformBrowser } from '@angular/platform-browser';\nimport { IInjectorService,
IProvideService, module_ as angularModule } from '././src/common/src/angular1';\nimport { $INJECTOR,
$PROVIDE, DOWNGRADED_MODULE_COUNT_KEY, INJECTOR_KEY, LAZY_MODULE_REF,
UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME } from '././src/common/src/constants';\nimport
{ LazyModuleRef, UpgradeAppType, getDowngradedModuleCount, isFunction } from
'././src/common/src/util';\nimport { angular1Providers, setTempInjectorRef } from './angular1_providers';\nimport
{ NgAdapterInjector } from './util';\n\nlet moduleId = 0;\n\n/**\n * @description\n *\n * A helper function for
creating
  an AngularJS module that can bootstrap an Angular module\n * \n * "on-demand" (possibly lazily) when a { @link
downgradeComponent downgraded component } needs to be\n * instantiated.\n *\n * *Part of the
[upgrade/static](api?query=upgrade/static) library for hybrid upgrade apps that\n * support AOT compilation.*\n *\n * It allows loading/bootstrapping the Angular part of a hybrid application lazily and not having to\n * pay the cost
up-front. For example, you can have an AngularJS application that uses Angular for\n * specific routes and only
instantiate the Angular modules if/when the user visits one of these\n * routes.\n *\n * The Angular module will be
bootstrapped once (when requested for the first time) and the same\n * reference will be used from that point
onwards.\n *\n * `downgradeModule()` requires either an `NgModuleFactory` or a function:\n * -
`NgModuleFactory`: If you pass an `NgModuleFactory`, it will be used to instantiate a module\n * using
`platformBrowser`'s { @link PlatformRef#bootstrapModuleFactory
bootstrapModuleFactory() }.\n * - `Function`: If you pass a function, it is expected to return a promise resolving to
an\n * `NgModuleRef`. The function is called with an array of extra { @link StaticProvider Providers }\n * that are
expected to be available from the returned `NgModuleRef`'s `Injector`.\n *\n * `downgradeModule()` returns the
name of the created AngularJS wrapper module. You can use it to\n * declare a dependency in your main AngularJS
module.\n *\n * { @example upgrade/static/ts/lite/module.ts region="basic-how-to" }\n *\n * For more details on
how to use `downgradeModule()` see\n * [Upgrading for Performance](guide/upgrade-performance).\n *\n *
@usageNotes\n *\n * Apart from `UpgradeModule`, you can use the rest of the `upgrade/static` helpers as usual to\n
* build a hybrid application. Note that the Angular pieces (e.g. downgraded services) will not be\n * available until
the downgraded module has been bootstrapped, i.e. by instantiating
  a downgraded\n * component.\n *\n * <div class="alert is-important">\n *\n * You cannot use
`downgradeModule()` and `UpgradeModule` in the same hybrid application.<br />\n *\n * Use one or the other.\n *\n
* </div>\n *\n * #### Differences with `UpgradeModule`\n *\n * Besides their different API, there are two important
internal differences between\n * `downgradeModule()` and `UpgradeModule` that affect the behavior of hybrid
applications:\n *\n * 1. Unlike `UpgradeModule`, `downgradeModule()` does not bootstrap the main AngularJS
module\n * inside the { @link NgZone Angular zone }.\n *\n * 2. Unlike `UpgradeModule`, `downgradeModule()`
does not automatically run a\n * [$digest()](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest)
when changes are\n * detected in the Angular part of the application.\n *\n * What this means is that applications
using `UpgradeModule` will run change detection more\n * frequently in order to ensure that both frameworks are
properly
  notified about possible changes.\n * This will inevitably result in more change detection runs than necessary.\n *\n
* `downgradeModule()`, on the other side, does not try to tie the two change detection systems as\n * tightly,
restricting the explicit change detection runs only to cases where it knows it is\n * necessary (e.g. when the inputs of
a downgraded component change). This improves performance,\n * especially in change-detection-heavy
applications, but leaves it up to the developer to manually\n * notify each framework as needed.\n *\n * For a more
detailed discussion of the differences and their implications, see\n * [Upgrading for Performance](guide/upgrade-

```

performance).

You can manually trigger a change detection run in AngularJS using `[scope.$apply(...)]` ([https://docs.angularjs.org/api/ng/type/\\$rootScope.Scope#\\$apply](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$apply)) or `[$rootScope.$digest()]` ([https://docs.angularjs.org/api/ng/type/\\$rootScope.Scope#\\$digest](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest)).

You can manually trigger a change detection run in Angular using `{ @link NgZone#run}` `ngZone.run(...)`.

### 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 `{ @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:

```
@example upgrade/static/ts/lite-multi-shared/module.ts region="shared-root-module"
@publicApi
export function downgradeModule<T>(
  moduleFactoryOrBootstrapFn: NgModuleFactory<T> |
  ((extraProviders: StaticProvider[]) => Promise<NgModuleRef<T>>): string {
  const lazyModuleName =
    `${UPGRADE_MODULE_NAME}.lazy${++moduleUid}`;
  const lazyModuleRefKey =
    `${LAZY_MODULE_REF}${lazyModuleName}`;
  const lazyInjectorKey =
    `${INJECTOR_KEY}${lazyModuleName}`;
  const bootstrapFn = isFunction(moduleFactoryOrBootstrapFn)
    ? moduleFactoryOrBootstrapFn :
    (extraProviders: StaticProvider[]) =>
    platformBrowser(extraProviders).bootstrapModuleFactory(
      moduleFactoryOrBootstrapFn);
  let injector:
  Injector;
  // Create an ng1 module to bootstrap.
  angularModule(lazyModuleName, [])
    .constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Lite)
    .factory(INJECTOR_KEY,
    [lazyInjectorKey, identity])
    .factory(
      lazyInjectorKey,
      () => {
        if (!injector) {
          throw new Error(
            'Trying to get the Angular injector before bootstrapping the corresponding ' +
            'Angular module.');
```

```
        }
        return injector;
      })
    .factory(LAZY_MODULE_REF,
    [lazyModuleRefKey, identity])
    .factory(
      lazyModuleRefKey,
      [
        $INJECTOR,
        ($injector: IInjectorService) => {
          setTempInjectorRef($injector);
          const result: LazyModuleRef = {
            promise: bootstrapFn(angular1Providers).then(
              ref => {
                injector = result.injector = new NgAdapterInjector(
                  ref.injector);
                injector.get($INJECTOR);
                return injector;
              })
            };
          return result;
        })
      ])
    .config([
      $INJECTOR, $PROVIDE,
      ($injector: IInjectorService, $provide: IProvideService) => {
        $provide.constant(DOWNGRADED_MODULE_COUNT_KEY,
          getDowngradedModuleCount($injector) + 1);
      })
    ];
  return lazyModuleName;
}

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

/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 * Use of this source code is governed by an MIT-style
 * license that can be found in the LICENSE file at
 * https://angular.io/license
 */
import {ElementRef, Injector, SimpleChanges} from '@angular/core';
import {DirectiveRequireProperty, IAugmentedJQuery, ICloneAttachFunction, ICompileService, IController, IControllerService, IDirective, IHttpBackendService, IInjectorService, ILinkFn, IScope, ITemplateCacheService, SingleOrListOrMap, element as angularElement} from './angular1';
import {$COMPILE, $CONTROLLER, $HTTP_BACKEND, $INJECTOR, $TEMPLATE_CACHE} from './constants';
import {controllerKey, directiveNormalize, isFunction} from './util';

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

// Interfaces
export interface IBindingDestination {
  [key: string]: any;
}

export interface IControllerInstance extends
```

```

IBindingDestination {\n $doCheck?: () => void;\n $onDestroy?: () => void;\n $onInit?: () => void;\n $postLink?:
() => void;\n}\n\n// Classes\nexport class UpgradeHelper {\n public readonly $injector: IInjectorService;\n public
readonly element: Element;\n public readonly $element: IAugmentedJQuery;\n
  public readonly directive: IDirective;\n\n private readonly $compile: ICompileService;\n private readonly
$controller: IControllerService;\n\n constructor(\n private injector: Injector, private name: string, elementRef:
ElementRef,\n directive?: IDirective) {\n this.$injector = injector.get($INJECTOR);\n this.$compile =
this.$injector.get($COMPILE);\n this.$controller = this.$injector.get($CONTROLLER);\n\n this.element =
elementRef.nativeElement;\n this.$element = angularElement(this.element);\n\n this.directive = directive ||
UpgradeHelper.getDirective(this.$injector, name);\n }\n\n static getDirective($injector: IInjectorService, name:
string): IDirective {\n const directives: IDirective[] = $injector.get(name + 'Directive');\n if (directives.length >
1) {\n throw new Error(`Only support single directive definition for: ${name}`);\n }\n\n const directive =
directives[0];\n\n // AngularJS will transform `link: xyz` to `compile:
() => xyz`. So we can only tell there was a\n // user-defined `compile` if there is no `link`. In other cases, we will
just ignore `compile`.\n if (directive.compile && !directive.link) notSupported(name, 'compile');\n if
(directive.replace) notSupported(name, 'replace');\n if (directive.terminal) notSupported(name, 'terminal');\n\n
return directive;\n }\n\n static getTemplate(\n $injector: IInjectorService, directive: IDirective,
fetchRemoteTemplate = false,\n $element?: IAugmentedJQuery): string|Promise<string> {\n if
(directive.template !== undefined) {\n return getOrCall<string>(directive.template, $element);\n } else if
(directive.templateUrl) {\n const $templateCache = $injector.get($TEMPLATE_CACHE) as
ITemplateCacheService;\n const url = getOrCall<string>(directive.templateUrl, $element);\n const template =
$templateCache.get(url);\n\n if (template !== undefined) {\n return template;\n } else if
(!fetchRemoteTemplate) {\n throw new Error('loading directive templates asynchronously is not supported');\n }\n\n
return new
Promise((resolve, reject) => {\n const $httpBackend = $injector.get($HTTP_BACKEND) as
IHttpBackendService;\n $httpBackend('GET', url, null, (status: number, response: string) => {\n if (status
=== 200) {\n resolve($templateCache.put(url, response));\n } else {\n reject(`GET component
template from '${url}' returned '${status}: ${response}`);\n }\n });\n })\n } else {\n throw new
Error(`Directive '${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 // Equivalent to how
jQuery/jqLite invoke `cleanData` on an Element (this.element)\n //
https://github.com/jquery/jquery/blob/e743cbd28553267f955f71ea7248377915613fd9/src/manipulation.js#L223\n
// https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2aab70d86d4d688c82/src/jqLite.js#L306-L312\n
  // `cleanData` will invoke the AngularJS `$destroy` DOM event\n //
https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2aab70d86d4d688c82/src/Angular.js#L1911-L1924\n
  angularElement.cleanData([this.element]);\n\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    if (typeof transclude === 'object') {\n      $template = [];\n      const
slotMap = Object.create(null);\n      const filledSlots = Object.create(null);\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
slotMap[selector] = slotName;\n        slots[slotName] = null;        // `null`: Defined but not yet filled.\n
filledSlots[slotName] = optional; // Consider optional slots as filled.\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          $template.push(node);\n        }\n      });\n      // Check for
required slots that were not filled.\n      Object.keys(filledSlots).forEach(slotName => {\n        if
(!filledSlots[slotName]) {\n          throw new Error(`Required transclusion slot '${slotName}' on directive:
${this.name}`);\n        }\n      });\n      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    $template.forEach(node => {\n      if (node.nodeType === Node.TEXT_NODE
&& !node.nodeValue) {\n        node.nodeValue = "\u200C";\n      }\n    });\n    return attachChildrenFn;\n
  }\n\n  resolveAndBindRequiredControllers(controllerInstance:
IControllerInstance|null) {\n    const directiveRequire = this.getDirectiveRequire();\n    const requiredControllers =
this.resolveRequire(directiveRequire);\n\n    if (controllerInstance && this.directive.bindToController &&
isMap(directiveRequire)) {\n      const requiredControllersMap = requiredControllers as {[key: string]:
IControllerInstance};\n      Object.keys(requiredControllersMap).forEach(key => {\n        controllerInstance[key] =
requiredControllersMap[key];\n      });\n    }\n\n    return requiredControllers;\n  }\n\n  private compileHtml(html:
string): ILinkFn {\n    this.element.innerHTML = html;\n    return this.$compile(this.element.childNodes);\n  }\n\n  private extractChildNodes(): Node[] {\n    const childNodes: Node[] = [];\n    let childNode: Node|null;\n\n    while
(childNode = this.element.firstChild) {\n      this.element.removeChild(childNode);\n
childNodes.push(childNode);\n    }\n\n    return childNodes;\n  }\n\n  private getDirectiveRequire():
DirectiveRequireProperty {\n    const require = this.directive.require || (this.directive.controller &&
this.directive.name) !;\n\n    if (isMap(require)) {\n      Object.keys(require).forEach(key => {\n        const value =
require[key];\n        const match = value.match(REQUIRE_PREFIX_RE) !;\n        const name =
value.substring(match[0].length);\n        if (!name) {\n          require[key] = match[0] + key;\n        }\n      });\n
    }\n\n    return require;\n  }\n\n  private resolveRequire(require: DirectiveRequireProperty, controllerInstance?:
any): SingleOrListOrMap<IControllerInstance>|null {\n    if (!require) {\n      return null;\n    } else if
(Array.isArray(require)) {\n      return require.map(req => this.resolveRequire(req));\n    } else if (typeof require
=== 'object') {\n      const value: {[key: string]: IControllerInstance} = {};\n      Object.keys(require).forEach(key =>
value[key] = this.resolveRequire(require[key]) !);\n      return value;\n

```



```

    } else if (typeof require === 'string') {\n      const match = require.match(REQUIRE_PREFIX_RE) !;\n      const
inheritType = match[1] || match[3];\n      const name = require.substring(match[0].length);\n      const isOptional =
!!match[2];\n      const searchParents = !!inheritType;\n      const startOnParent = inheritType === '^';\n      const
ctrlKey = controllerKey(name);\n      const elem = startOnParent ? this.$element.parent !() : this.$element;\n
const value = searchParents ? elem.inheritedData !(ctrlKey) : elem.data !(ctrlKey);\n      if (!value && !isOptional)
{\n        throw new Error(\n          `Unable to find required '${require}' in upgraded directive '${this.name}'.`);\n
}\n      return value;\n    } else {\n      throw new Error(\n        `Unrecognized 'require' syntax on upgraded
directive '${this.name}': ${require}`);\n    }\n  }\n}\n\nfunction getOrCall<T>(property: T | Function, ...args: any[]):
T {\n  return isFunction(property) ? property(...args)
: property;\n}\n\n// NOTE: Only works for `typeof T !== 'object'.\nfunction isMap<T>(value:
SingleOrListOrMap<T>): value is {[key: string]: T} {\n  return value && !Array.isArray(value) && typeof value
=== 'object';\n}\n\nfunction notSupported(name: string, feature: string) {\n  throw new Error(`Upgraded directive
'${name}' contains unsupported feature: '${feature}'.`);\n}\n\n"/**\n * @license\n * Copyright Google Inc. All
Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n */\n\nimport {DoCheck, ElementRef, EventEmitter, Injector,
OnChanges, OnDestroy, OnInit, SimpleChanges, ÉulooseIdentical as looseIdentical} from
'@angular/core';\n\nimport {IAttributes, IAugmentedJQuery, IDirective, IDirectivePrePost, IInjectorService,
ILinkFn, IScope, ITranscludeFunction} from '../src/common/src/angular1';\nimport {$SCOPE} from
'../src/common/src/constants';\nimport {IBindingDestination,
IControllerInstance, UpgradeHelper} from '../src/common/src/upgrade_helper';\nimport {isFunction} from
'../src/common/src/util';\n\nconst NOT_SUPPORTED: any = 'NOT_SUPPORTED';\nconst INITIAL_VALUE =
{\n  __UNINITIALIZED__: true;\n};\n\nclass Bindings {\n  twoWayBoundProperties: string[] = [];\n  twoWayBoundLastValues: any[] = [];\n  expressionBoundProperties: string[] = [];\n  propertyToOutputMap:
{[propName: string]: string} = {};\n}\n\n/**\n * @description\n * A helper class that allows an AngularJS
component to be used from Angular.\n * Part of the [upgrade/static](api?query=upgrade%2Fstatic)\n * library
for hybrid upgrade apps that support AOT compilation.\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 *
@usageNotes\n * ### Examples\n * Let's assume that you have an AngularJS component called `ng1Hero` that
needs\n * to be made available
in Angular templates.\n * {@example upgrade/static/ts/full/module.ts region="ng1-hero"}\n * We must
create a `Directive` that will make this AngularJS component\n * available inside Angular templates.\n *
{@example upgrade/static/ts/full/module.ts region="ng1-hero-wrapper"}\n * In this example you can see that
we must derive from the `UpgradeComponent`\n * base class but also provide an {@link Directive `@Directive`}
decorator. This is\n * because the AOT compiler requires that this information is statically available at\n * compile
time.\n * Note that we must do the following:\n * * specify the directive's selector (`ng1-hero`)\n * * specify all
inputs and outputs that the AngularJS component expects\n * * derive from `UpgradeComponent`\n * * call the base
class from the constructor, passing\n * * the AngularJS name of the component (`ng1Hero`)\n * * the
`ElementRef` and `Injector` for the component wrapper\n * * @publicApi\n */\n\nexport class UpgradeComponent
implements OnInit, OnChanges, DoCheck, OnDestroy {\n  private helper: UpgradeHelper;\n  private $injector:
IInjectorService;\n  private element: ElementRef;\n  private $element: IAugmentedJQuery;\n  private
$scope: IScope;\n  private directive: IDirective;\n  private bindings: Bindings;\n  //
TODO(issue/24571): remove '!.\n  private controllerInstance !: IControllerInstance;\n  // TODO(issue/24571):
remove '!.\n  private bindingDestination !: IBindingDestination;\n  // We will be instantiating the controller in the
`ngOnInit` hook, when the\n  // first `ngOnChanges` will have been already triggered. We store the\n  //
`SimpleChanges` and `play them back` later.\n  // TODO(issue/24571): remove '!.\n  private pendingChanges !:
SimpleChanges | null;\n  // TODO(issue/24571): remove '!.\n  private unregisterDoCheckWatcher !: Function;\n\n
/**\n * Create a new `UpgradeComponent` instance. You should not normally need to do this.\n * Instead you
should derive

```

```

a new class from this one and call the super constructor
 * from the base class.
 *
 * { @example
upgrade/static/ts/full/module.ts region="ng1-hero-wrapper" }
 *
 * * The `name` parameter should be the
name of the AngularJS directive.
 * * The `elementRef` and `injector` parameters should be acquired from
Angular by dependency
 * injection into the base class constructor.
 */
constructor(private name: string,
private elementRef: ElementRef, private injector: Injector) {
  this.helper = new UpgradeHelper(injector, name,
elementRef);
  this.$injector = this.helper.$injector;
  this.element = this.helper.element;
  this.$element =
this.helper.$element;
  this.directive = this.helper.directive;
  this.bindings =
this.initializeBindings(this.directive);
  // We ask for the AngularJS scope from the Angular injector, since
  // we will put the new component scope onto the new injector for each component
  const $parentScope
= injector.get($SCOPE);
  // QUESTION 1: Should we create an isolated scope if the scope is only true?
  // QUESTION 2: Should we make the scope accessible through `.$element.scope()/isolateScope()`?
  this.$componentScope = $parentScope.$new(!this.directive.scope);
  this.initializeOutputs();
}
ngOnInit() {
  // Collect contents, insert and compile template
  const attachChildNodes: ILinkFn|undefined =
this.helper.prepareTransclusion();
  const linkFn = this.helper.compileTemplate();
  // Instantiate controller
  const controllerType = this.directive.controller;
  const bindToController = this.directive.bindToController;
  if (
controllerType) {
    this.controllerInstance = this.helper.buildController(controllerType,
this.$componentScope);
  } else if (bindToController) {
    throw new Error(`Upgraded directive
'${this.directive.name}' specifies 'bindToController' but no controller.`);
  }
  // Set up outputs
  this.bindingDestination = bindToController ? this.controllerInstance : this.$componentScope;
  this.bindOutputs();
  // Require other controllers
  const requiredControllers =
this.helper.resolveAndBindRequiredControllers(this.controllerInstance);
  // Hook: $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)) {
    const callDoCheck = () => this.controllerInstance.$doCheck
!();
    this.unregisterDoCheckWatcher = this.$componentScope.$parent.$watch(callDoCheck);
    callDoCheck();
  }
  // Linking
  const link = this.directive.link;
  const preLink = typeof link === 'object'
&& link.pre;
  const
postLink = typeof link === 'object' ? link.post : link;
  const attrs: IAttributes = NOT_SUPPORTED;
  const
transcludeFn: ITranscludeFunction = NOT_SUPPORTED;
  if (preLink) {
    preLink(this.$componentScope,
this.$element, attrs, requiredControllers, transcludeFn);
  }
  linkFn(this.$componentScope, null !,
{parentBoundTranscludeFn: attachChildNodes});
  if (postLink) {
    postLink(this.$componentScope,
this.$element, attrs, requiredControllers, transcludeFn);
  }
  // Hook: $postLink
  if (
this.controllerInstance
&& isFunction(this.controllerInstance.$postLink)) {
    this.controllerInstance.$postLink();
  }
}
ngOnChanges(changes: SimpleChanges) {
  if (!this.bindingDestination) {
    this.pendingChanges = changes;
  } else {
    this.forwardChanges(changes);
  }
}
ngDoCheck() {
  const twoWayBoundProperties =
this.bindings.twoWayBoundProperties;
  const twoWayBoundLastValues =
this.bindings.twoWayBoundLastValues;
  const propertyToOutputMap = this.bindings.propertyToOutputMap;
  twoWayBoundProperties.forEach((propName, idx) => {
    const newValue =
this.bindingDestination[propName];
    const oldValue = twoWayBoundLastValues[idx];
    if (!looseIdentical(newValue, oldValue)) {
      const outputName = propertyToOutputMap[propName];
      const
eventEmitter: EventEmitter<any> = (this as any)[outputName];
      eventEmitter.emit(newValue);
      twoWayBoundLastValues[idx] = newValue;
    }
  });
}
ngOnDestroy() {
  if (
isFunction(this.unregisterDoCheckWatcher)) {
    this.unregisterDoCheckWatcher();
  }
  this.helper.onDestroy(this.$componentScope, this.controllerInstance);
}
private initializeBindings(directive:
IDirective) {
  const btcIsObject = typeof directive.bindToController === 'object';
  if (btcIsObject &&
Object.keys(directive.scope !).length) {
    throw new Error(`Binding definitions

```

```

on scope and controller at the same time is not supported.});\n  }\n\n  const context = btcIsObject ?
directive.bindToController : directive.scope;\n  const bindings = new Bindings();\n\n  if (typeof context ==
'object') {\n    Object.keys(context).forEach(propName => {\n      const definition = context[propName];\n      const bindingType = definition.charAt(0);\n      // QUESTION: What about `=*`? Ignore? Throw? Support?\n      switch (bindingType) {\n        case '@':\n        case '<':\n          // We don't need to do anything special. They
will be defined as inputs on the\n          // upgraded component facade and the change propagation will be handled
by\n          // `ngOnChanges()`.\n          break;\n        case '=':\n        case '&':\n          bindings.twoWayBoundProperties.push(propName);\n          bindings.twoWayBoundLastValues.push(INITIAL_VALUE);\n          bindings.propertyToOutputMap[propName]
= propName + 'Change';\n          break;\n        case '&':\n          bindings.expressionBoundProperties.push(propName);\n          bindings.propertyToOutputMap[propName] = propName;\n          break;\n        default:\n          let json =
JSON.stringify(context);\n          throw new Error(\n            `Unexpected mapping '${bindingType}' in '${json}'
in '${this.name}' directive.`);\n          });\n      }\n\n      return bindings;\n    });\n\n    private initializeOutputs() {\n      //
Initialize the outputs for `=` and `&` bindings\n      this.bindings.twoWayBoundProperties.concat(this.bindings.expressionBoundProperties)\n        .forEach(propName
=> {\n          const outputName = this.bindings.propertyToOutputMap[propName];\n          (this as
any)[outputName] = new EventEmitter();\n          });\n    }\n\n    private bindOutputs() {\n      // Bind `&` bindings to the
corresponding outputs\n      this.bindings.expressionBoundProperties.forEach(propName => {\n          const outputName
= this.bindings.propertyToOutputMap[propName];\n          const emitter = (this as any)[outputName];\n          this.bindingDestination[propName] = (value: any) =>
emitter.emit(value);\n          });\n    }\n\n    private forwardChanges(changes: SimpleChanges) {\n      // Forward input
changes to `bindingDestination`\n      Object.keys(changes).forEach(\n        propName =>
this.bindingDestination[propName] = changes[propName].currentValue);\n    }\n\n    if
(isFunction(this.bindingDestination.$onChanges)) {\n      this.bindingDestination.$onChanges(changes);\n    }\n  }\n}\n"/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is
governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport {Injector, NgModule, NgZone, Testability, isDevMode} from '@angular/core';\nimport
{IInjectorService, IIntervalService, IProvideService, ITestabilityService, bootstrap, element as angularElement,
module_ as angularModule} from '../src/common/src/angular1';\nimport
{$$TESTABILITY, $DELEGATE, $INJECTOR, $INTERVAL, $PROVIDE, INJECTOR_KEY,
LAZY_MODULE_REF, UPGRADE_APP_TYPE_KEY, UPGRADE_MODULE_NAME} from
'../src/common/src/constants';\nimport {LazyModuleRef, UpgradeAppType, controllerKey} from
'../src/common/src/util';\nimport {angular1Providers, setTempInjectorRef} from './angular1_providers';\nimport
{NgAdapterInjector} from './util';\n\n/**\n * @description\n * An `NgModule`, which you import to provide
AngularJS core services,\n * and has an instance method used to bootstrap the hybrid upgrade application.\n *\n *
Part of the [upgrade/static](api?query=upgrade/static)\n * library for hybrid upgrade apps that support AOT
compilation*\n * The `upgrade/static` package contains helpers that allow AngularJS and Angular components\n *
to be used together inside a hybrid upgrade application, which supports AOT compilation.\n *\n * Specifically, the
classes and functions in the `upgrade/static` module allow the following:\n\n *
1. Creation of an Angular directive that wraps and exposes an AngularJS component so\n * that it can be
used in an Angular template. See `UpgradeComponent`.\n *
2. Creation of an AngularJS directive that wraps and
exposes an Angular component so\n * that it can be used in an AngularJS template. See
`downgradeComponent`.\n *
3. Creation of an Angular root injector provider that wraps and exposes an AngularJS\n *
service so that it can be injected into an Angular context. See\n * { @link UpgradeModule#upgrading-an-
angular-1-service Upgrading an AngularJS service} below.\n *
4. Creation of an AngularJS service that wraps and
exposes an Angular injectable\n * so that it can be injected into an AngularJS context. See
`downgradeInjectable`.\n *
3. Bootstrapping of a hybrid Angular application which contains both of the

```

frameworks coexisting in a single application.

```

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

```

See also the [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.
8. This implies that the component bindings will always follow the semantics of the instantiation framework.
9. 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.
10. However the template binding syntax will always use the Angular style, e.g. square brackets `[...]` for property binding.
11. Angular is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the root component of the application.
12. 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.

#### Bootstrap

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 `[AngularJS $injector]` ([https://docs.angularjs.org/api/auto/service/\\$injector](https://docs.angularjs.org/api/auto/service/$injector)).

### Examples

Import the `UpgradeModule` into your top level `{@link NgModule Angular NgModule }`.

```

import {UpgradeModule} from '@angular/upgrade/static';
@NgModule({
  providers: [angularProviders]
})
export class UpgradeModule {
  constructor(private $injector: any) {}
  public $injector: any;
}

```

Then inject `UpgradeModule` into your Angular `NgModule` and use it to bootstrap the top level `[AngularJS module]` (<https://docs.angularjs.org/api/ng/type/angular.Module>) in the `ngDoBootstrap()` method.

```

@NgModule({
  providers: [angularProviders]
})
export class UpgradeModule {
  constructor(private $injector: any) {}
  public $injector: any;
}

```

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

```

import {UpgradeModule} from '@angular/upgrade/static';
import {angularProviders} from '@angular/core';
@NgModule({
  providers: [angularProviders]
})
export class UpgradeModule {
  constructor(private $injector: any) {}
  public $injector: any;
}

```

### Upgrading an AngularJS service

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

Let's say you have an AngularJS service:

```

import {angularProviders} from '@angular/core';
@NgModule({
  providers: [angularProviders]
})
export class UpgradeModule {
  constructor(private $injector: any) {}
  public $injector: any;
}

```

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

```

import {angularProviders} from '@angular/core';
import {angularProviders} from '@angular/core';
@NgModule({
  providers: [angularProviders]
})
export class UpgradeModule {
  constructor(private $injector: any) {}
  public $injector: any;
}

```

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

```

import {angularProviders} from '@angular/core';
import {angularProviders} from '@angular/core';
@NgModule({
  providers: [angularProviders]
})
export class UpgradeModule {
  constructor(private $injector: any) {}
  public $injector: any;
}

```

The AngularJS `$injector` for the upgrade application.

```

import {angularProviders} from '@angular/core';
import {angularProviders} from '@angular/core';
@NgModule({
  providers: [angularProviders]
})
export class UpgradeModule {
  constructor(private $injector: any) {}
  public $injector: any;
}

```

```

Angular Injector **/\n public injector: Injector;\n\n constructor(\n    /** The root `Injector` for the upgrade
application. */\n    injector:
Injector,\n    /** The bootstrap zone for the upgrade application */\n    public ngZone: NgZone) {\n    this.injector
= new NgAdapterInjector(injector);\n  }\n\n  /**\n   * Bootstrap an AngularJS application from this NgModule\n   *
@param element the element on which to bootstrap the AngularJS application\n   * @param [modules] the
AngularJS modules to bootstrap for this application\n   * @param [config] optional extra AngularJS bootstrap
configuration\n   */\n  bootstrap(\n    element: Element, modules: string[] = [], config?: any
/**angular.IAngularBootstrapConfig*/) {\n    const INIT_MODULE_NAME = UPGRADE_MODULE_NAME +
'.init';\n\n    // Create an ng1 module to bootstrap\n    const initModule =\nangularModule(INIT_MODULE_NAME, [])\n      .constant(UPGRADE_APP_TYPE_KEY,
UpgradeAppType.Static)\n      .value(INJECTOR_KEY, this.injector)\n      .factory(\n
LAZY_MODULE_REF,\n        [INJECTOR_KEY, (injector: Injector) =>
({ injector } as LazyModuleRef)])\n      .config([\n        $PROVIDE, $INJECTOR,\n        ($provide:
IProvideService, $injector: IInjectorService) => {\n          if ($injector.has($$TESTABILITY)) {\n
$provide.decorator($$TESTABILITY, [\n            $DELEGATE,\n            (testabilityDelegate:
ITestabilityService) => {\n              const originalWhenStable: Function = testabilityDelegate.whenStable;\n
              const injector = this.injector;\n              // Cannot use arrow function below because we need the
context\n              const newWhenStable = function(callback: Function) {\n
originalWhenStable.call(testabilityDelegate, function() {\n                  const ng2Testability: Testability =
injector.get(Testability);\n                  if (ng2Testability.isStable()) {\n                      callback();\n
                }\n              } else {\n
                ng2Testability.whenStable(\n                    newWhenStable.bind(testabilityDelegate,
callback));\n                }\n              });\n            testabilityDelegate.whenStable
= newWhenStable;\n            return testabilityDelegate;\n          };\n        });\n        }\n      ]);\n\n    if ($injector.has($INTERVAL)) {\n      $provide.decorator($INTERVAL, [\n        $DELEGATE,\n
(intervalDelegate: IIntervalService) => {\n          // Wrap the $interval service so that setInterval is
called outside NgZone,\n          // but the callback is still invoked within it. This is so that $interval\n
// won't block stability, which preserves the behavior from AngularJS.\n          let wrappedInterval =\n            (fn: Function, delay: number,
count?: number, invokeApply?: boolean,\n              ...pass: any[]) => {\n                return
this.ngZone.runOutsideAngular(() => {\n                  return intervalDelegate((...args: any[]) => {\n
// Run callback in the next VM turn - $interval calls\n                  // $rootScope.$apply, and running
the callback in NgZone will\n                  // cause a '$digest already in progress' error if it's in the\n
// same vm turn.\n                  setTimeout(() => { this.ngZone.run(() => fn(...args)); });\n
                }, delay, count, invokeApply, ...pass);\n              });\n            });\n          }\n        };\n      ]);\n      (wrappedInterval as any)['cancel'] = intervalDelegate.cancel;\n      return wrappedInterval;\n
    };\n  };\n\n  .run([\n    $INJECTOR,\n    ($injector: IInjectorService) => {\n
this.$injector = $injector;\n      // Initialize the ng1 $injector provider\n
setTempInjectorRef($injector);\n      this.injector.get($INJECTOR);\n      // Put the injector on the
DOM, so that it can be \"required\"\n      angularElement(element).data !(controllerKey(INJECTOR_KEY),
this.injector);\n      // Wire up the ng1 rootScope to run a digest cycle whenever the zone settles\n      //
We need to do this in the next tick so that we don't prevent the bootstrap\n      // stabilizing\n
setTimeout(() => {\n        const $rootScope = $injector.get('$rootScope');\n        const subscription =
this.ngZone.onMicrotaskEmpty.subscribe(() => {\n          if ($rootScope.$$phase) {\n            if
(isDevMode()) {\n              console.warn(\n                'A digest was triggered while one was already in progress. This may
mean that something is triggering digests outside the Angular zone.);\n            }\n          }\n        };\n      };\n      return

```

```

$rootScope.$evalAsync();\n          }\n          return $rootScope.$digest();\n        });\n$rootScope.$on('$destroy', () => { subscription.unsubscribe(); });\n      }, 0);\n    });\n\nconst upgradeModule = angularModule(UPGRADE_MODULE_NAME,\n[INIT_MODULE_NAME].concat(modules));\n\n  // Make sure resumeBootstrap() only exists if the current\n  bootstrap is deferred\n  const windowAngular = (window as any)['angular'];\n  windowAngular.resumeBootstrap\n= undefined;\n\n  // Bootstrap the AngularJS application inside our zone\n  this.ngZone.run(() => {\nbootstrap(element, [upgradeModule.name], config); });\n\n  // Patch resumeBootstrap()\n  to run inside the ngZone\n  if (windowAngular.resumeBootstrap) {\n    const originalResumeBootstrap: () =>\nvoid = windowAngular.resumeBootstrap;\n    const ngZone = this.ngZone;\n    windowAngular.resumeBootstrap\n= function() {\n      let args = arguments;\n      windowAngular.resumeBootstrap = originalResumeBootstrap;\n      return ngZone.run(() => windowAngular.resumeBootstrap.apply(this, args));\n    }; \n  }\n}\n\n"/**\n *\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-\n * style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nexport\n{getAngularJSGlobal, getAngularLib, setAngularJSGlobal, setAngularLib} from\n'./src/common/src/angular1';\nexport {downgradeComponent} from\n'./src/common/src/downgrade_component';\nexport {downgradeInjectable} from\n'./src/common/src/downgrade_injectable';\nexport {VERSION} from './src/common/src/version';\nexport\n{downgradeModule}\n\nfrom './src/downgrade_module';\nexport {UpgradeComponent} from './src/upgrade_component';\nexport\n{UpgradeModule} from './src/upgrade_module';\n\n\n// This file only re-exports items to appear in the public api.\nKeep it that way.\n"/**\n *\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source\n * 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\n// This file is not used to build this module. It is only used during editing\n// by the TypeScript language\nservice and during build for verification. `ngc` replaces this file with production index.ts when it rewrites private\nsymbol\n// names.\n\nexport * from './public_api';\n\n"/**\n *\n * Generated bundle index. Do not edit.\n */\n\nexport *\nfrom './index';\n\nexport {angular1Providers as Éµangular_packages_upgrade_static_static_e, compileFactory as\nÉµangular_packages_upgrade_static_static_c, injectorFactory as\nÉµangular_packages_upgrade_static_static_a, parseFactory\nas Éµangular_packages_upgrade_static_static_d, rootScopeFactory as\nÉµangular_packages_upgrade_static_static_b} from\n'./src/angular1_providers';\n\n], "names": ["Injector", "ChangeDetectorRef", "Testability", "TestabilityRegistry", "Applicati\nonRef", "SimpleChange", "NgZone", "ComponentFactoryResolver", "Version", "NOT_FOUND_CHECK_ONLY_EL\nEMENT_INJECTOR", "platformBrowser", "angularModule", "angularElement", "INITIAL_VALUE", "looseIdentical\n", "EventEmitter", "element", "isDevMode", "NgModule"], "mappings": ";;;;;;;;;IAAA;;;;;;;;;IA0NA,SAAS,IAAI;QAC\nX,MAAM,IAAI,KAAC,CAAC,+BAA+B,CAAC,CAAC;IACnD,CAAC;IAED,IAAM,WAAW,IAA4B,cAAM,OA\nAA,IAAI,EAAE,GAAA,CAAQ,CAAC;IACIE,WAAW,CAAC,SAAS,GAAG,IAAI,CAAC;IAE7B,IAAI,OAAO,G\nAAY;QACF,SAAS,EAAE,IAAI;QACf,MAAM,EAAE,IAAI;QACZ,OAAO,EAAE,WAAW;QACpB,QAAQ,EAAE\n,IAAI;QACd,OAAO,EAAE,SAAGB;QACzB,eAAe,EAAE,IAAI;QACrB,cAAc,EAAE,IAAI;KACrB,CAAC;IAEF,\nIAAI;QACF,IAAI,MAAM,CAAC,cAAc,CAAC,SAAS,CAAC,EAAE;YACpC,OAAO,GAAS,MAAO,CAAC,OAA\nO,CAAC;SACjC;KACF;IAAC,WAAW;;KAEP;IAED;;;AAKA,aAAgB,aAAa,CAAC,EAAO;QACnC,kBAaKB,C\nAAC,EAAE,CAAC,CAAC;IACzB,CAAC;IAED;;;AAKA,aAAgB,aAAa;QAC3B,OAAO,kBAaKB,EAAE,CAAC\n;IAC9B,CAAC;IAED;;;AAOA,aAAgB,kBAaKB,CAAC,EAAO;QACxC,OAAO,GAAG,EAAE,CAAC;IACf,C\nAAC;IAED;;;AAKA,aAAgB,kBAaKB;QAChC,OAAO,OAAO,CAAC;IACjB,CAAC;AAED,IAAO,IAAM,SAAS\n,GAA6B,UAAc,CAAC,EAAE,OAAO,EAAE,MAAO;QACnE,OAAA,OAAO,CAAC,SAAS,CAAC,CAAC,EAAE\n,OAAO,EAAE,MAAM,CAAC;IAArC,CAAqC,CAAC;IAE1C;IACA;AACa,IAAO,IAAM,OAAO,GAA0B,UAAc\n,MAAM,EAAE,YAAa;QACHE,OAAA,OAAO,CAAC,MAAM,CAAC,MAAM,EAAE,YAAY,CAAC;IAApC,CAA\noC,CAAC;AAEzC,IAAO,IAAM,OAAO,IAA4B,UAAA,CAAC,IAAI,OAAA,OAAO,CAAC,OAAO,CAAC,CAAC\n,CAAC,GAAA,CAA2B,CAAC;IACnG,OAAO,CAAC,SAAS,GAAG,UAAA,KAAC,IAAI,OAAA,OAAO,CAAC,
```

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C,EAAE,CAAC,CAAC;qBACnE,EAAE,CAAC,CAAC,CAAC;iBACP;aACF,CAAC,CAAC;YAEX,IAAM,aAAa,  
GAAGN,OAAa,CAAC,mBAAmB,EAAE,CAAC,gBAAGB,CAAC,CAAC,MAAM,CAAC,OAAO,CAAC,CAAC,C  
AAC;;YAG7F,IAAM,aAAa,GAAl,MAAc,CAAC,SAAS,CAAC,CAAC;YACjD,aAAa,CAAC,eAAe,GAAG,SAAS  
,CAAC;;YAG1C,IAAI,CAAC,MAAM,CAAC,GAAG,CAAC,cAAQ,SAAS,CAACK,SAAO,EAAE,CAAC,aAAa,  
CAAC,IAAI,CAAC,EAAE,MAAM,CAAC,CAAC,EAAE,CAAC,CAAC;;YAG7E,IAAI,aAAa,CAAC,eAAe,EAA  
E;gBACjC,IAAM,yBAAuB,GAAe,aAAa,CAAC,eAAe,CAAC;gBAC1E,IAAM,QAAM,GAAG,IAAI,CAAC,MAA  
M,CAAC;gBAC3B,aAAa,CAAC,eAAe,GAAG;oBAAA,iBAI/B;oBAHC,IAAI,IAAI,GAAG,SAAS,CAAC;oBACr  
B,aAAa,CAAC,eAAe,GAAG,yBAAuB,CAAC;oBACxD,OAAO,QAAM,CAAC,GAAG,CAAC,cAAM,OAAA,aA  
Aa,CAAC,eAAe,CAAC,KAak,CAAC,KAAl,EAAE,IAAI,CAAC,GAAA,CAAC,CAAC;iBAC1E,CAAC;aACH;S  
ACF;QApJU,aAAa;YADzBE,aAAQ,CAAC,EAAC,SAAS,EAAE,CAAC,iBAaiB,CAAC,EAAC,CAAC;6CAW3B  
IB,aAAQ;gBAEHM,WAAM;WAZd,aAAa,CAqJzB;QAAD,oBAAC;KArJD;;ICjJA;;;;;AAQA,IASA,iFAAiF;;ICj



```

template?: string|Function;\n templateUrl?: string|Function;\n transclude?:
DirectiveTranscludeProperty;\n}\n\nexport interface IAttributes {\n $observe(attr: string, fn: (v: string) => void):
void;\n [key: string]: any;\n}\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}\n\nexport interface ICloneAttachFunction { (clonedElement: IAugmentedJQuery, scope:
IScope): any; }\n\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?: () => InjectorService;\n triggerHandler?: (eventTypeOrObject: string |
Event, extraParameters?: any[]) => IAugmentedJQuery;\n remove?: () => void;\n removeData?: () =>
void;\n};\n\nexport interface IProvider { $get: IInjectable; }\n\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}\n\nexport interface IParseService {
(expression: string): ICompiledExpression; }\n\nexport interface ICompiledExpression {\n (context: any, locals: any):
any;\n assign?: (context: any, value: any) => any;\n}\n\nexport interface IHttpBackendService {\n (method: string,
url: string, post?: any, callback?: Function, headers?: any, timeout?: number,\n withCredentials?: boolean):
void;\n}\n\nexport interface ICacheObject {\n put<T>(key: string, value?: T): T;\n get(key: string): any;\n}\n\nexport
interface ITemplateCacheService extends ICacheObject { }\n\nexport interface ITemplateRequestService {\n
(template: string|any /* TrustedResourceUrl */, ignoreRequestError?: boolean): Promise<string>;\n
totalPendingRequests: number;\n}\n\nexport type IController = string | IInjectable;\n\nexport interface
IControllerService
{\n (controllerConstructor: IController, locals?: any, later?: any, ident?: any): any;\n (controllerName: string,
locals?: any): any;\n}\n\nexport interface IInjectorService {\n get(key: string): any;\n has(key: string):
boolean;\n}\n\nexport interface IIntervalService {\n (func: Function, delay: number, count?: number,
invokeApply?: boolean,\n ...args: any[]): Promise<any>;\n cancel(promise: Promise<any>): boolean;\n}\n\nexport
interface ITestabilityService {\n findBindings(element: Element, expression: string, opt_exactMatch?: boolean):
Element[];\n findModels(element: Element, expression: string, opt_exactMatch?: boolean): Element[];\n
getLocation(): string;\n setLocation(url: string): void;\n whenStable(callback: Function): void;\n}\n\nexport
interface INgModelController {\n $render(): void;\n $isEmpty(value: any): boolean;\n
$setValidity(validationErrorKey: string, isValid: boolean): void;\n $setPristine(): void;\n $setDirty(): void;\n
$setUntouched():
void;\n $setTouched(): void;\n $rollbackViewValue(): void;\n $validate(): void;\n $commitViewValue(): void;\n
$setViewValue(value: any, trigger: string): void;\n $viewValue: any;\n $modelValue: any;\n $parsers:
Function[];\n $formatters: Function[];\n $validators: {[key: string]: Function};\n $asyncValidators: {[key: string]:
Function};\n $viewChangeListeners: Function[];\n $error: Object;\n $pending: Object;\n $untouched: boolean;\n
$touched: boolean;\n $pristine: boolean;\n $dirty: boolean;\n $valid: boolean;\n $invalid: boolean;\n $name:
string;\n}\n\nfunction noNg(): never {\n throw new Error('AngularJS v1.x is not loaded!');\n}\n\nconst
noNgElement: typeof angular.element = (( => noNg()) as any);\n\nnoNgElement.cleanData = noNg;\n\nlet angular:
{\n bootstrap: (e: Element, modules: (string | IInjectable)[], config?: IAngularBootstrapConfig) =>\n
IInjectorService,\n module: (prefix: string, dependencies?: string[]) => IModule,\n element:
{\n (e: string | Element | Document | IAugmentedJQuery): IAugmentedJQuery;\n cleanData: (nodes: Node[] |
NodeList) => void;\n },\n injector: (modules: Array<string|IInjectable>, strictDi?: boolean) => IInjectorService,\n
version: {major: number},\n resumeBootstrap: () => void,\n getTestability: (e: Element) => ITestabilityService\n}
= {\n bootstrap: noNg,\n module: noNg,\n element: noNgElement,\n injector: noNg,\n version: undefined as

```

```

any,\n resumeBootstrap: noNg,\n getTestability: noNg\n};\n\ntry {\n if (window.hasOwnProperty('angular')) {\n angular = (<any>window).angular;\n }\n} catch {\n // ignore in CJS mode.\n}\n\n/**\n * @deprecated Use `setAngularJSGlobal` instead.\n *\n * @publicApi\n */\nexport function setAngularLib(ng: any): void {\n setAngularJSGlobal(ng);\n}\n\n/**\n * @deprecated Use `getAngularJSGlobal` instead.\n *\n * @publicApi\n */\nexport function getAngularLib(): any {\n return getAngularJSGlobal();\n}\n\n/**\n * Resets the AngularJS global.\n *\n * Used when AngularJS is loaded lazily, and not available on `window`.\n *\n * @publicApi\n */\nexport function setAngularJSGlobal(ng: any): void {\n angular = ng;\n}\n\n/**\n * Returns the current AngularJS global.\n *\n * @publicApi\n */\nexport function getAngularJSGlobal(): any {\n return angular;\n}\n\nexport const bootstrap: typeof angular.bootstrap = (e, modules, config?) =>\n angular.bootstrap(e, modules, config);\n\n// Do not declare as `module` to avoid webpack bug\n// (see https://github.com/angular/angular/issues/30050).\nexport const module_: typeof angular.module = (prefix, dependencies?) =>\n angular.module(prefix, dependencies);\n\nexport const element: typeof angular.element = (e => angular.element(e)) as typeof angular.element;\n\nexport const injector: typeof angular.injector = (\n modules: Array<string|IInjectable>, strictDi?: boolean) => angular.injector(modules, strictDi);\n\nexport const resumeBootstrap: typeof angular.resumeBootstrap = () => angular.resumeBootstrap();\n\nexport const getTestability: typeof angular.getTestability = e => 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\nexport const $COMPILE = '$compile';\nexport const $CONTROLLER = '$controller';\nexport const $DELEGATE = '$delegate';\nexport const $EXCEPTION_HANDLER = '$exceptionHandler';\nexport const $HTTP_BACKEND = '$httpBackend';\nexport const $INJECTOR = '$injector';\nexport const $INTERVAL = '$interval';\nexport const $PARSE = '$parse';\nexport const $PROVIDE = '$provide';\nexport const $ROOT_SCOPE = '$rootScope';\nexport const $SCOPE = '$scope';\nexport const $TEMPLATE_CACHE = '$templateCache';\nexport const $TEMPLATE_REQUEST = '$templateRequest';\nexport const $TESTABILITY = '$$testability';\n\nexport const COMPILER_KEY = '$$angularCompiler';\nexport const DOWNGRADED_MODULE_COUNT_KEY = '$$angularDowngradedModuleCount';\nexport const GROUP_PROJECTABLE_NODES_KEY = '$$angularGroupProjectableNodes';\nexport const INJECTOR_KEY = '$$angularInjector';\nexport const LAZY_MODULE_REF = '$$angularLazyModuleRef';\nexport const NG_ZONE_KEY = '$$angularNgZone';\nexport const UPGRADE_APP_TYPE_KEY = '$$angularUpgradeAppType';\n\nexport const REQUIRE_INJECTOR = '?^^' + INJECTOR_KEY;\nexport const REQUIRE_NG_MODEL = '?ngModel';\n\nexport const 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\nimport {Injector, NgModule, Type} from '@angular/core';\nimport * as angular from '../src/common/src/angular1';\nimport {$INJECTOR, INJECTOR_KEY, UPGRADE_APP_TYPE_KEY} from '../src/common/src/constants';\nimport {UpgradeAppType} from '../src/common/src/util';\n\nlet $injector: angular.IInjectorService|null = null;\n\nlet injector: Injector;\n\nexport function $injectorFactory() {\n return $injector;\n}\n\n@NgModule({providers: [{provide: $INJECTOR, useFactory: $injectorFactory}]})\nexport class AngularTestingModule {\n constructor(i: Injector) {\n injector = i;\n }\n\n/**\n * A helper function to use when unit testing Angular services that depend upon upgraded AngularJS services.\n *\n * 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.\n *\n * This makes it simpler and faster to unit test services.\n *\n * Use the returned class as an `import` when configuring the ` TestBed`.\n *\n * In the following code snippet, we are configuring the TestBed with two imports.\n * The `Ng2AppModule` is the Angular part of our hybrid application and the `ng1AppModule` is the AngularJS part.\n *\n * <code-example\n path='upgrade/static/ts/full/module.spec.ts'\n region='angular-setup'\n * 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`.

```
<code-example path="upgrade/static/ts/full/module.spec.ts" region="angular-spec"></code-example>
```

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

```
<div class="alert is-important">
  * The resulting configuration does not wire up AngularJS digests
  to Zone hooks. It is the responsibility of the test writer to call `rootScope.$apply`, as necessary, to trigger
  AngularJS handlers of async events from Angular.
</div>
<div class="alert is-important">
  * 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`.
</div>
```

```
<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.
@publicApi
export function
createAngularTestingModule(
  angularJSMODULES: string[], strictDi?: boolean): Type<any> {
  angular.module('$angularJSTestingModule', angularJSMODULES)
    .constant(UPGRADE_APP_TYPE_KEY,
  UpgradeAppType.Static)
    .factory(INJECTOR_KEY, () => injector);
  $injector = angular.injector(['ng',
  '$angularJSTestingModule'], strictDi);
  return AngularTestingModule;
}
```

```
/**
 * @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 {TestBed} from '@angular/core/testing';
import * as ng 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';
```

A helper function to use when unit testing AngularJS services that depend upon downgraded Angular services. This function returns an AngularJS module that is configured to wire up the AngularJS and Angular injectors without the need to actually bootstrap a hybrid application. This makes it simpler and faster to unit test services. Use the returned AngularJS module in a call to

```
[angular.mock.module](https://docs.angularjs.org/api/ngMock/function/angular.mock.module) to include this module in the unit test injector. In the following code snippet, we are configuring the `$injector` with two modules: The AngularJS `ng1AppModule`, which is the AngularJS part of our hybrid application and the `Ng2AppModule`, which is the Angular part.
```

```
<code-example path="upgrade/static/ts/full/module.spec.ts" region="angularjs-setup"></code-example>
```

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

```
<code-example
  path="upgrade/static/ts/full/module.spec.ts" region="angularjs-spec"></code-example>
```

```
<div class="alert is-important">
  * This helper is for testing services not components.
  * For Component testing you must still bootstrap a hybrid app.
  * See `UpgradeModule` or `downgradeModule` for more information.
</div>
<div class="alert is-important">
  * The resulting configuration does not wire up AngularJS
  digests to Zone hooks. It is the responsibility of the test writer to call `rootScope.$apply`, as necessary, to
  trigger AngularJS handlers of async events from Angular.
</div>
<div class="alert is-important">
```



```

*\n * The helper sets up global variables to hold the shared Angular and AngularJS injectors.\n *\n * * Only call
this helper once per spec.\n * * Do not use `createAngularJSTestingModule` in the same spec as
`createAngularTestingModule`.\n *\n * </div>\n *\n * Here is the example application and its unit tests that use
`createAngularTestingModule`\n * and `createAngularJSTestingModule`.\n *\n * <code-tabs>\n * <code-pane
header="module.spec.ts" path="\upgrade/static/ts/full/module.spec.ts"></code-pane>\n * <code-pane
header="module.ts" path="\upgrade/static/ts/full/module.ts"></code-pane>\n * </code-tabs>\n *\n * @param
angularModules a collection of Angular modules to include in the configuration.\n *\n * @publicApi\n */\nexport
function createAngularJSTestingModule(angularModules: any[]): string {\n return
ng.module_('$angularJSTestingModule', [])\n .constant(UPGRADE_APP_TYPE_KEY,
UpgradeAppType.Static)\n .factory(\n INJECTOR_KEY,\n
[\n $INJECTOR,\n ($injector: ng.IInjectorService) => {\n
 TestBed.configureTestingModule({\n imports: angularModules,\n providers: [{ provide:
$INJECTOR, useValue: $injector}]\n });\n return TestBed.inject(Injector);\n })\n
.name;\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\nexport { createAngularTestingModule } from './src/create_angular_testing_module';\nexport
{ createAngularJSTestingModule } from './src/create_angularjs_testing_module';"/**\n * @license\n * Copyright
Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n
found in the LICENSE file at https://angular.io/license\n */\n\nexport * from './public_api';\n"/**\n * Generated
bundle index. Do not edit.\n */\n\nexport * from './index';\n\nexport { module_ as
Éµangular_packages_upgrade_static_testing_testing_a } from './../src/common/src/angular1';\nexport
{ INJECTOR_KEY as Éµangular_packages_upgrade_static_testing_testing_d, UPGRADE_APP_TYPE_KEY as
Éµangular_packages_upgrade_static_testing_testing_b } from './../src/common/src/constants';\nexport
{ UpgradeAppType as Éµangular_packages_upgrade_static_testing_testing_c } from
'./../src/common/src/util';\n};\n\nnames: ["injector", "angular.module_", "angular.injector", "ng.module_"],\n"mappings": ";;
:::;AAAA;:::;AA0NA,SAAS,IAAI;IACX,MAAM,IAAI,KAAC,CAAC,+BAA+B,CAAC,CAAC;CACID;AAE
D,IAAM,WAAW,IAA4B,cAAM,OAAA,IAAI,EAAE,GAAA,CAAQ,CAAC;AACIE,WAAW,CAAC,SAAS,GAA
G,IAAI,CAAC;AAE7B,IAAI,OAAO,GAYP;IACF,SAAS,EAAE,IAAI;IACf,MAAM,EAAE,IAAI;IACZ,OAAO,E
AAE,WAAW;IACpB,QAAQ,EAAE,IAAI;IACd,OAAO,EAAE,SAAGB;IACzB,eAAe,EAAE,IAAI;IACrB,cAAc,E
AAE,IAAI;CACrB,CAAC;AAEF,IAAI;IACF,IAAI,MAAM,CAAC,cAAc,CAAC,SAAS,CAAC,EAAE;QACpC,O
AAO,GAAS,MAAO,CAAC,OAAO,CAAC;KACjC;CACF;AAAC,WAAW;;CAEP;:::;AAOD,SAAGB,aAAa,CAA
C,EAAO;IACnC,kBAaKB,CAAC,EAAE,CAAC,CAAC;CACxB;:::;AAOD,SAAGB,aAAa;IAC3B,OAAO,kBAaK
B,EAAE,CAAC;CAC7B;:::;AASD,SAAGB,kBAaKB,CAAC,EAAO;IACxC,OAAO,GAAG,EAAE,CAAC;CACd
;:::;AAOD,SAAGB,kBAaKB;IAChC,OAAO,OAAO,CAAC;CAC7B;AAED,AAA,OAAO,SAAS,GAAG6B,UAA
C,CAAC,EAAE,OAAO,EAAE,MAAO;IACnE,OAAA,OAAO,CAAC,SAAS,CAAC,CAAC,EAAE,OAAO,EAAE,M
AAM,CAAC;CAAA,CAAC;;AAIIC,IAAa,OAAO,GAAG0B,UAAO,MAAM,EAAE,YAAa;IACHe,OAAA,OAAO,
CAAC,MAAM,CAAC,MAAM,EAAE,YAAO,CAAC;CAAA,CAAC;AAEzC,AAA,OAAO,IAAM,OAAO,IAA4B,UAA
A,CAAC,IAAI,OAAA,OAAO,CAAC,OAAO,CAAC,CAAC,CAAC,GAAA,CAA2B,CAAC;AACnG,OAAO,CAA
C,SAAS,GAAG,UAAA,KAAC,IAAI,OAAA,OAAO,CAAC,OAAO,CAAC,SAAS,CAAC,KAAC,CAAC,GAAA,C
AAC;AAE9D,AAA,OAAO,IAAM,QAAQ,GACjB,UAAO,OAaK,EAAE,QAAkB,IAAK,OAAA,OAAO,CAAC,QAAQ,
CAAC,OAAO,EAAE,QAAQ,CAAC,GAAA,CAAC;AAEpG,AAA,OAAO,IAAM,eAAe,GAAMc,cAAM,OAAA,OAAO,
CAAC,eAAe,EAAE,GAAA,CAAC;AAE/F,AAA,OAAO,IAAM,cAAc,GAaK,UAAA,CAAC,IAAI,OAAA,OAAO,CA
AC,cAAc,CAAC,CAAC,CAAC,GAAA,CAAC;;ACrT5F;:::;AAQA,AAA,OAAO,IAAM,QAAQ,GAAG,UAAU,CAAC;
AACnC,AAA,OAAO,IAAM,WAAW,GAAG,aAAa,CAAC;AACzC,AAA,OAAO,IAAM,SAAS,GAAG,WAAW,CAAC;AACr
C,AAA,OAAO,IAAM,kBAaKB,GAAG,mBAAMb,CAAC;AACtD,AAA,OAAO,IAAM,aAAa,GAAG,cAAc,CAAC;AAC5C,
AAA,OAAO,IAAM,SAAS,GAAG,WAAW,CAAC;AACrC,AAA,OAAO,IAAM,SAAS,GAAG,WAAW,CAAC;AACrC,AAA
O,IAAM,MAAM,GAAG,QAAQ,CAAC;AAC/B,AAA,OAAO,IAAM,QAAQ,GAAG,UAAU,CAAC;AACnC,AAA,OAAO,IA
AM,WAAW,GAAG,YAAO,CAAC;AACxC,AAA,OAAO,IAAM,MAAM,GAAG,QAAQ,CAAC;AAC/B,AAA,OAAO,IAAM,

```



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License.

```
global Reflect, Promise
var extendStatics = function(d, b) {
  extendStatics = Object.setPrototypeOf
  || ({__proto__: []} instanceof Array && function(d, b) {
    d.__proto__ = b; }) || function(d, b) {
    (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(result.value);
      }).then(fulfilled, rejected);
    }
    step((generator = generator.apply(thisArg, _arguments || [])).next());
  });
}
export function __generator(thisArg, body) {
  var _ = {
    label: 0,
    sent: function() {
      if (t[0] & 1)
        throw t[1];
      return t[1];
    },
    trys: [],
    ops: []
  }, f, y, t, g;
  return g = {
    next: verb(0),
    "throw": verb(1),
    "return": verb(2)
  }, typeof Symbol === "function" && (g[Symbol.iterator] = function() {
    return this;
  }), g;
  function verb(n) {
    return function(v) {
      return step([n, v]);
    };
  }
  function step(op) {
    if (f)
      throw new TypeError("Generator is already executing.");
    while (_)
      try {
        if (f = 1, y && (t = op[0] & 2 ? y["return"] : op[0] ? y["throw"] || ((t = y["return"]) && t.call(y), 0) : y.next) && !(t = t.call(y, op[1])).done)
          return t;
        if (y = 0, t)
          op = [op[0] & 2, t.value];
        switch (op[0]) {
          case 0:
            case 1:
            case 4:
              t = op;
              break;
          case 5:
            _label++;
            y = op[1];
            op = [0];
            continue;
          case 7:
            op = _ops.pop();
            _trys.pop();
            continue;
          default:
            if (!t = _trys, t = t.length > 0 && t[t.length - 1] && (op[0] === 6 || op[0] === 2))
              _ = 0;
            continue;
            if (op[0] === 3 && (!t || (op[1] > t[0] && op[1] < t[3])))
              _label = op[1];
            break;
            if (op[0] === 6 && _label < t[1])
              _label = t[1];
            t = op;
            break;
            if (t && _label < t[2])
              _label = t[2];
            _ops.push(op);
            break;
            if (t[2])
              _ops.pop();
            _trys.pop();
            continue;
        }
        op = body.call(thisArg, _);
      } catch (e) {
        op = [6, e];
        y = 0;
      } finally {
        f = t = 0;
      }
      if (op[0] & 5)
        throw op[1];
      return {
        value: op[0] ? op[1] : void 0,
        done: true
      };
    }
  };
}
export function __exportStar(m, exports) {
  for (var p in m) if (!exports.hasOwnProperty(p))
    exports[p] = m[p];
}
export function __values(o) {
  var m = typeof Symbol === "function" && o[Symbol.iterator], i = 0;
  if (m)
    return m.call(o);
  return {
    next:
  
```



```

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 IHttpBackendService {\n (method: string, url: string, post?:
any, callback?: Function, headers?: any, timeout?: number,\n withCredentials?: boolean): void;\n}\nexport
interface ICacheObject {\n put<T>(key: string, value?: T): T;\n get(key: string): any;\n}\nexport interface
ITemplateCacheService extends ICacheObject {\n}\nexport interface ITemplateRequestService {\n (template:
string|any /* TrustedResourceUrl */, ignoreRequestError?: boolean): Promise<string>;\n totalPendingRequests:
number;\n}\nexport type IController = string | IInjectable;\nexport interface IControllerService {\n

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(controllerConstructor: IController, locals?: any, later?: any, ident?: any): any;\n (controllerName: string, locals?:
any): any;\n}\n\nexport interface IInjectorService {\n get(key: string): any;\n has(key: string):
boolean;\n}\n\nexport interface IIntervalService {\n (func: Function, delay: number, count?: number,
invokeApply?: boolean,\n ...args: any[]): Promise<any>;\n cancel(promise: Promise<any>): boolean;\n}\n\nexport
interface ITestabilityService {\n findBindings(element: Element, expression: string, opt_exactMatch?: boolean):
Element[];\n findModels(element: Element, expression: string, opt_exactMatch?: boolean): Element[];\n
getLocation(): string;\n setLocation(url: string): void;\n whenStable(callback: Function): void;\n}\n\nexport
interface INgModelController {\n $render(): void;\n $isEmpty(value: any): boolean;\n
$setValidity(validationErrorKey: string, isValid: boolean): void;\n $setPristine(): void;\n $setDirty(): void;\n
$setUntouched(): void;\n $setTouched(): void;\n $rollbackViewValue(): void;\n $validate(): void;\n
$commitViewValue(): void;\n $setViewValue(value:
any, trigger: string): void;\n\n $viewValue: any;\n $modelValue: any;\n $parsers: Function[];\n $formatters:
Function[];\n $validators: {[key: string]: Function};\n $asyncValidators: {[key: string]: Function};\n
$viewChangeListeners: Function[];\n $error: Object;\n $pending: Object;\n $untouched: boolean;\n $touched:
boolean;\n $pristine: boolean;\n $dirty: boolean;\n $valid: boolean;\n $invalid: boolean;\n $name:
string;\n}\n\nfunction noNg(): never {\n throw new Error('AngularJS v1.x is not loaded!');\n}\n\nconst
noNgElement: typeof angular.element = ((() => noNg()) as any);\nnoNgElement.cleanData = noNg;\n\nlet angular:
{\n bootstrap: (e: Element, modules: (string | IInjectable)[], config?: IAngularBootstrapConfig) =>\n
InjectorService,\n module: (prefix: string, dependencies?: string[]) => IModule,\n element: {\n (e: string |
Element | Document | IAugmentedJQuery): IAugmentedJQuery;\n cleanData: (nodes: Node[] | NodeList) =>
void;\n },\n
injector: (modules: Array<string|IInjectable>, strictDi?: boolean) => IInjectorService,\n version: {major:
number},\n resumeBootstrap: () => void,\n getTestability: (e: Element) => ITestabilityService\n} = {\n bootstrap:
noNg,\n module: noNg,\n element: noNgElement,\n injector: noNg,\n version: undefined as any,\n
resumeBootstrap: noNg,\n getTestability: noNg\n};\n\ntry {\n if (window.hasOwnProperty('angular')) {\n angular
= (<any>window).angular;\n } } catch {\n // ignore in CJS mode.\n}\n\n/**\n * @deprecated Use
`setAngularJSGlobal` instead.\n *\n * @publicApi\n */\n\nexport function setAngularLib(ng: any): void {\n
setAngularJSGlobal(ng);\n}\n\n/**\n * @deprecated Use `getAngularJSGlobal` instead.\n *\n * @publicApi\n
*/\n\nexport function getAngularLib(): any {\n return getAngularJSGlobal();\n}\n\n/**\n * Resets the AngularJS
global.\n *\n * Used when AngularJS is loaded lazily, and not available on `window`.\n *\n * @publicApi\n
*/\n\nexport function setAngularJSGlobal(ng:
any): void {\n angular = ng;\n}\n\n/**\n * Returns the current AngularJS global.\n *\n * @publicApi\n
*/\n\nexport function getAngularJSGlobal(): any {\n return angular;\n}\n\nexport const bootstrap: typeof angular.bootstrap = (e,
modules, config?) =>\n angular.bootstrap(e, modules, config);\n\n// Do not declare as `module` to avoid webpack
bug\n// (see https://github.com/angular/angular/issues/30050).\nexport const module_: typeof angular.module =
(prefix, dependencies?) =>\n angular.module(prefix, dependencies);\n\nexport const element: typeof
angular.element = (e => angular.element(e)) as typeof angular.element;\nelement.cleanData = nodes =>
angular.element.cleanData(nodes);\n\nexport const injector: typeof angular.injector =\n (modules:
Array<string|IInjectable>, strictDi?: boolean) => angular.injector(modules, strictDi);\n\nexport const
resumeBootstrap: typeof angular.resumeBootstrap = () => angular.resumeBootstrap();\n\nexport const
getTestability: typeof angular.getTestability
= e => angular.getTestability(e);\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\nexport const $COMPILE = '$compile';\nexport const $CONTROLLER =
'$controller';\nexport const $DELEGATE = '$delegate';\nexport const $EXCEPTION_HANDLER =
'$exceptionHandler';\nexport const $HTTP_BACKEND = '$httpBackend';\nexport const $INJECTOR =
'$injector';\nexport const $INTERVAL = '$interval';\nexport const $PARSE = '$parse';\nexport const $PROVIDE =
'$provide';\nexport const $ROOT_SCOPE = '$rootScope';\nexport const $SCOPE = '$scope';\nexport const

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$TEMPLATE_CACHE = 'templateCache';\nexport const $TEMPLATE_REQUEST =
'templateRequest';\nexport const $TESTABILITY = '$testability';\nexport const COMPILER_KEY =
'$angularCompiler';\nexport const DOWNGRADED_MODULE_COUNT_KEY =
'$angularDowngradedModuleCount';\nexport
const GROUP_PROJECTABLE_NODES_KEY = '$angularGroupProjectableNodes';\nexport const
INJECTOR_KEY = '$angularInjector';\nexport const LAZY_MODULE_REF =
'$angularLazyModuleRef';\nexport const NG_ZONE_KEY = '$angularNgZone';\nexport const
UPGRADE_APP_TYPE_KEY = '$angularUpgradeAppType';\nexport const REQUIRE_INJECTOR = '?^^ +
INJECTOR_KEY;\nexport const REQUIRE_NG_MODEL = '?ngModel';\nexport const
UPGRADE_MODULE_NAME = '$UpgradeModule';\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 */\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 */\nexport class PropertyBinding
{\n // TODO(issue/24571): remove '!.\n bracketAttr
!: string;\n // TODO(issue/24571): remove '!.\n bracketParenAttr !: string;\n // TODO(issue/24571): remove '!.\n
parenAttr !: string;\n // TODO(issue/24571): remove '!.\n onAttr !: string;\n // TODO(issue/24571): remove '!.\n
bindAttr !: string;\n // TODO(issue/24571): remove '!.\n bindonAttr !: string;\n\n constructor(public prop: string,
public attr: string) { this.parseBinding(); }\n\n private parseBinding() {\n this.bracketAttr = `_${this.attr}`;\n
this.parenAttr = `_${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 }\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\nimport {Injector, Type} from '@angular/core';\nimport {IInjectorService, INgModelController} from
'./angular!';\nimport {DOWNGRADED_MODULE_COUNT_KEY, UPGRADE_APP_TYPE_KEY} from
'./constants';\nconst DIRECTIVE_PREFIX_REGEXP = /^(?:x(data)[:-_]/i;\nconst
DIRECTIVE_SPECIAL_CHARS_REGEXP = /[:\s-_.+]/g;\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}\nexport function
controllerKey(name: string): string {\n return '$' + name + 'Controller';\n}\nexport function
directiveNormalize(name: string): string {\n return name.replace(DIRECTIVE_PREFIX_REGEXP, "")\n
.replace(DIRECTIVE_SPECIAL_CHARS_REGEXP, (_, letter) => letter.toUpperCase());\n}\nexport function
getTypeName(type: Type<any>): string {\n // Return the name of the type or the first line of its stringified
version.\n return (type as any).overriddenName || type.name || type.toString().split("\n")[0];\n}\nexport function
getDowngradedModuleCount($injector: IInjectorService): number {\n return
$injector.has(DOWNGRADED_MODULE_COUNT_KEY) ?
$injector.get(DOWNGRADED_MODULE_COUNT_KEY) :n 0;\n}\nexport
function getUpgradeAppType($injector: IInjectorService): UpgradeAppType {\n return
$injector.has(UPGRADE_APP_TYPE_KEY) ? $injector.get(UPGRADE_APP_TYPE_KEY) :n
UpgradeAppType.None;\n}\nexport function isFunction(value: any): value is Function {\n return typeof
value === 'function';\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

```

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    'more than one Angular module (via
    'downgradedModule()');
    }
    break;
    case UpgradeAppType.Lite:
        if (!downgradedModule &&
            (downgradedModuleCount >= 2)) {
            throw new Error(
                `Error while ${attemptedAction}:
                'downgradedModule' not specified.`);
            'This application contains more than one downgraded Angular
            module, thus you need to '
            'always specify 'downgradedModule' when downgrading components and
            injectables.`);
        }
        if (!$injector.has(injectionKey)) {
            throw new Error(
                `Error while
                ${attemptedAction}:
                Unable to find the specified downgraded module.`);
            'Did you forget to downgrade an Angular module
            or include it in the AngularJS '
            'application?');
        }
        break;
        default:
            throw new Error(
                `Error while ${attemptedAction}: Not a valid '@angular/upgrade' application.`);
            'Did you forget to
            downgrade an Angular module or include it in the AngularJS '
            'application?');
        }
    }
}

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
const enum UpgradeAppType {
    // App NOT using '@angular/upgrade'. (This
    should never happen in an `ngUpgrade` app.)
    None,
    // App using the deprecated '@angular/upgrade' APIs
    (a.k.a. dynamic `ngUpgrade`).
    Dynamic,
    // App using '@angular/upgrade/static' with `UpgradeModule`.
    Static,
    // App using '@angular/upgrade/static' with `downgradeModule()` (a.k.a. `ngUpgrade-lite`).
    Lite,
}

/**
 * @return Whether the passed-in component implements the subset of the
 * `ControlValueAccessor` interface needed for AngularJS `ng-model`
 * compatibility.
 */
function
supportsNgModel(component: any) {
    return typeof component.writeValue === 'function' &&
        typeof
        component.registerOnChange === 'function';
}

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

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

/**
 * @license
 * 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 {
    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,\n    private $parse: IParseService, private componentFactory:
ComponentFactory<any>,\n    private wrapCallback: <T>(cb: () => T) => () => T) {\n    this.componentScope =
scope.$new();\n }\n\n compileContents(): Node[][] {\n    const compiledProjectableNodes: Node[][] = [];\n    const
projectableNodes: Node[][] = this.groupProjectableNodes();\n    const linkFns = projectableNodes.map(nodes =>
this.$compile(nodes));\n\n    this.element.empty !();\n\n    linkFns.forEach(linkFn => {\n    linkFn(this.scope,
(clone: Node[]) => {\n    compiledProjectableNodes.push(clone);\n    this.element.append !(clone);\n });\n });\n\n    return compiledProjectableNodes;\n }\n\n createComponent(projectableNodes: Node[][]) {\n    const
providers: StaticProvider[] = [{provide: $$SCOPE, useValue: this.componentScope}];\n    const childInjector =
Injector.create(\n    {providers: providers, parent: this.parentInjector, name:
'DowngradeComponentAdapter'});\n\n    this.componentRef =\n    this.componentFactory.create(childInjector, projectableNodes, this.element[0]);\n\n    this.viewChangeDetector = this.componentRef.injector.get(ChangeDetectorRef);\n    this.changeDetector =
this.componentRef.changeDetectorRef;\n    this.component = this.componentRef.instance;\n\n    // testability hook is
commonly added during component bootstrap in\n    // packages/core/src/application_ref.bootstrap()\n    // in
downgraded application, component creation will take place here as well as adding the\n    // testability hook.\n\n    const testability = this.componentRef.injector.get(Testability, null);\n    if (testability) {\n
this.componentRef.injector.get(TestabilityRegistry)\n
.registerApplication(this.componentRef.location.nativeElement, testability);\n    }\n\n    hookupNgModel(this.ngModel, this.component);\n    }\n\n    setupInputs(manuallyAttachView: boolean,
propagateDigest = true): void {\n    const attrs = this.attrs;\n    const
inputs = this.componentFactory.inputs || [];\n    for (let i = 0; i < inputs.length; i++) {\n    const input = new
PropertyBinding(inputs[i].propName, inputs[i].templateName);\n    let expr: string|null = null;\n    if
(attrs.hasOwnProperty(input.attr)) {\n    const observeFn = (prop => {\n    let prevValue =
INITIAL_VALUE;\n    return (currValue: any) => {\n    // Initially, both `$observe()` and `$watch()` will
call this function.\n    if (!strictEquals(prevValue, currValue)) {\n    if (prevValue ===
INITIAL_VALUE) {\n    prevValue = currValue;\n    }\n    this.updateInput(prop, prevValue,
currValue);\n    prevValue = currValue;\n    }\n    });\n    });\n    });\n    });\n    attrs.$observe(input.attr, observeFn);\n\n    // Use `$watch()` (in addition to `$observe()`) in order to initialize the
input in time\n    // for `ngOnChanges()`. This is necessary if we are already
in a `$digest`, which means that\n    // `ngOnChanges()` (which is called by a watcher) will run before the
`$observe()` callback.\n    let unwatch: Function|null = this.componentScope.$watch(() => {\n    unwatch
!();\n    unwatch = null;\n    observeFn(attrs[input.attr]);\n    });\n\n    } else if
(attrs.hasOwnProperty(input.bindAttr)) {\n    expr = attrs[input.bindAttr];\n    } else if
(attrs.hasOwnProperty(input.bracketAttr)) {\n    expr = attrs[input.bracketAttr];\n    } else if
(attrs.hasOwnProperty(input.bindonAttr)) {\n    expr = attrs[input.bindonAttr];\n    } else if
(attrs.hasOwnProperty(input.bracketParenAttr)) {\n    expr = attrs[input.bracketParenAttr];\n    }\n    if (expr !=
null) {\n    const watchFn =\n    (prop => (currValue: any, prevValue: any) =>)\n
this.updateInput(prop, prevValue, currValue))(input.prop);\n    this.componentScope.$watch(expr, watchFn);\n
}\n    }\n\n    // Invoke `ngOnChanges()` and Change Detection (when necessary)\n    const detectChanges = () =>
this.changeDetector.detectChanges();\n    const prototype = this.componentFactory.componentType.prototype;\n\n    this.implementsOnChanges = !!(prototype && (<OnChanges>prototype).ngOnChanges);\n\n    this.componentScope.$watch(() => this.inputChangeCount, this.wrapCallback(() => {\n    // Invoke
`ngOnChanges()`\n    if (this.implementsOnChanges) {\n    const inputChanges = this.inputChanges;\n
this.inputChanges = {};\n    (<OnChanges>this.component).ngOnChanges(inputChanges !);\n    }\n\n    this.viewChangeDetector.markForCheck();\n\n    // If opted out of propagating digests, invoke change detection
when inputs change.\n    if (!propagateDigest) {\n    detectChanges();\n    }\n    }));\n\n    // If not opted out of
propagating digests, invoke change detection on every digest\n    if (propagateDigest) {\n

```

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this.componentScope.$watch(this.wrapCallback(detectChanges));\n
  }\n\n // If necessary, attach the view so that it will be dirty-checked.\n // (Allow time for the initial input
values to be set and `ngOnChanges()` to be called.)\n  if (manuallyAttachView || !propagateDigest) {\n    let
unwatch: Function|null = this.componentScope.$watch(() => {\n      unwatch !();\n      unwatch = null;\n\n
const appRef = this.parentInjector.get<ApplicationRef>(ApplicationRef);\n
appRef.attachView(this.componentRef.hostView);\n    });\n  }\n\n  setupOutputs() {\n    const attrs =
this.attrs;\n    const outputs = this.componentFactory.outputs || [];\n    for (let j = 0; j < outputs.length; j++) {\n
const output = new PropertyBinding(outputs[j].propName, outputs[j].templateName);\n    const bindonAttr =
output.bindonAttr.substring(0, output.bindonAttr.length - 6);\n    const bracketParenAttr =\n`[${output.bracketParenAttr.substring(2, output.bracketParenAttr.length - 8)}]`; \n    // order
below is important - first update bindings then evaluate expressions\n    if (attrs.hasOwnProperty(bindonAttr)) {\n
      this.subscribeToOutput(output, attrs[bindonAttr], true);\n    }\n    if (attrs.hasOwnProperty(bracketParenAttr))
{\n      this.subscribeToOutput(output, attrs[bracketParenAttr], true);\n    }\n    if
(attrs.hasOwnProperty(output.onAttr)) {\n      this.subscribeToOutput(output, attrs[output.onAttr]);\n    }\n    if
(attrs.hasOwnProperty(output.parenAttr)) {\n      this.subscribeToOutput(output, attrs[output.parenAttr]);\n    }\n
  }\n\n  private subscribeToOutput(output: PropertyBinding, expr: string, isAssignment: boolean = false) {\n
const getter = this.$parse(expr);\n    const setter = getter.assign;\n    if (isAssignment && !setter) {\n      throw new
Error(`Expression '${expr}' is not assignable!`);\n    }\n    const emitter = this.component[output.prop] as
EventEmitter<any>;\n    if (emitter) {\n      emitter.subscribe({\n
        next: isAssignment ? (v: any) => setter !(this.scope, v) : \n          (v: any) => getter(this.scope,
{'$event': v})\n      });\n    } else {\n      throw new Error(`Missing emitter '${output.prop}' on component
'${getTypeName(this.componentFactory.componentType)}'`);\n    }\n  }\n\n  registerCleanup() {\n    const
testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);\n    const destroyComponentRef =
this.wrapCallback(() => this.componentRef.destroy());\n    let destroyed = false;\n\n    this.element.on !('$destroy', ()
=> this.componentScope.$destroy();\n    this.componentScope.$on('$destroy', () => {\n      if (!destroyed) {\n
destroyed = true;\n      testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);\n
destroyComponentRef();\n    }\n  });\n  }\n\n  getInjector(): Injector { return this.componentRef.injector; }\n\n
private updateInput(prop: string, prevValue: any, currValue:
any) {\n    if (this.implementsOnChanges) {\n      this.inputChanges[prop] = new SimpleChange(prevValue,
currValue, prevValue === currValue);\n    }\n\n    this.inputChangeCount++;\n    this.component[prop] =
currValue;\n  }\n\n  groupProjectableNodes() {\n    let ngContentSelectors =
this.componentFactory.ngContentSelectors;\n    return groupNodesBySelector(ngContentSelectors,
this.element.contents !());\n  }\n\n  /**\n   * Group a set of DOM nodes into `ngContent` groups, based on the given
content selectors.\n   */\n  export function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]):
Node[][] {\n    const projectableNodes: Node[][] = [];\n    let wildcardNgContentIndex: number;\n\n    for (let i = 0, ii =
ngContentSelectors.length; i < ii; ++i) {\n      projectableNodes[i] = [];\n    }\n\n    for (let j = 0, jj = nodes.length; j < jj;
++j) {\n      const node = nodes[j];\n      const ngContentIndex = findMatchingNgContentIndex(node,
ngContentSelectors);\n      if (ngContentIndex != null)\n        {\n          projectableNodes[ngContentIndex].push(node);\n        }\n    }\n\n    return projectableNodes;\n  }\n\n  function
findMatchingNgContentIndex(element: any, ngContentSelectors: string[]): number|null {\n    const ngContentIndices:
number[] = [];\n    let wildcardNgContentIndex: number = -1;\n    for (let i = 0; i < ngContentSelectors.length; i++) {\n
const selector = ngContentSelectors[i];\n      if (selector === '*') {\n        wildcardNgContentIndex = i;\n      } else {\n
if (matchesSelector(element, selector)) {\n        ngContentIndices.push(i);\n      }\n    }\n\n    ngContentIndices.sort();\n    if (wildcardNgContentIndex !== -1) {\n
ngContentIndices.push(wildcardNgContentIndex);\n    }\n\n    return ngContentIndices.length ? ngContentIndices[0] :
null;\n  }\n\n  let _matches: (this: any, selector: string) => boolean;\n  function matchesSelector(el: any, selector:
string): boolean {\n    if (!_matches) {\n      const elProto = <any>Element.prototype;\n      _matches = elProto.matches ||
elProto.matchesSelector

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    || elProto.mozMatchesSelector ||\n      elProto.msMatchesSelector || elProto.oMatchesSelector ||
    elProto.webkitMatchesSelector;\n  }\n  return el.nodeType === Node.ELEMENT_NODE ? _matches.call(el,
  selector) : false;\n}\n"/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source
  code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n
  *\n\nimport {isFunction} from './util';\n\nexport interface Thenable<T> { then(callback: (value: T) => any): any;
  }\n\nexport function isThenable<T>(obj: unknown): obj is Thenable<T> {\n  return !!obj && isFunction((obj as
  any).then);\n}\n"/**\n * Synchronous, promise-like object.\n *\n\nexport class SyncPromise<T> {\n  protected
  value: T|undefined;\n  private resolved = false;\n  private callbacks: ((value: T) => unknown)[] = [];\n\n  static
  all<T>(valuesOrPromises: (T|Thenable<T>[]): SyncPromise<T[]> {\n    const aggrPromise = new
  SyncPromise<T[]>();\n\n    let resolvedCount = 0;\n    const results: T[] = [];\n    const resolve = (idx: number, value: T) => {\n
  results[idx] = value;\n    if (++resolvedCount === valuesOrPromises.length) aggrPromise.resolve(results);\n
  };\n\n    valuesOrPromises.forEach((p, idx) => {\n    if (isThenable(p)) {\n      p.then(v => resolve(idx, v));\n    }
  else {\n      resolve(idx, p);\n    }\n  });\n\n    return aggrPromise;\n  }\n\n  resolve(value: T): void {\n    // Do
  nothing, if already resolved.\n    if (this.resolved) return;\n\n    this.value = value;\n    this.resolved = true;\n\n    //
  Run the queued callbacks.\n    this.callbacks.forEach(callback => callback(value));\n    this.callbacks.length = 0;\n
  }\n\n  then(callback: (value: T) => unknown): void {\n    if (this.resolved) {\n      callback(this.value !);\n    } else
  {\n      this.callbacks.push(callback);\n    }\n  }\n}\n"/**\n * @license\n * Copyright Google Inc. All Rights
  Reserved.\n * Use of this source
  code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n
  *\n\nimport {ComponentFactory, ComponentFactoryResolver, Injector, NgZone, Type} from
  '@angular/core';\n\nimport {IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective,
  InjectorService, INgModelController, IParseService, IScope} from './angular1';\n\nimport {$COMPILE,
  $INJECTOR, $PARSE, INJECTOR_KEY, LAZY_MODULE_REF, REQUIRE_INJECTOR,
  REQUIRE_NG_MODEL} from './constants';\n\nimport {DowngradeComponentAdapter} from
  './downgrade_component_adapter';\n\nimport {SyncPromise, Thenable} from './promise_util';\n\nimport
  {LazyModuleRef, UpgradeAppType, controllerKey, getDowngradedModuleCount, getTypeName,
  getUpgradeAppType, validateInjectionKey} from './util';\n\n"/**\n * @description\n * A helper function that
  allows an Angular component to be used from AngularJS.\n * Part of the
  [upgrade/static](api?query=upgrade%2Fstatic)\n * library for hybrid upgrade
  apps that support AOT compilation*\n * This helper function returns a factory function to be used for
  registering\n * an AngularJS wrapper directive for \"downgrading\" an Angular component.\n * @usageNotes\n
  * ### Examples\n * Let's assume that you have an Angular component called `ng2Heroes` that needs\n * to be
  made available in AngularJS templates.\n * { @example upgrade/static/ts/full/module.ts region=\"ng2-
  heroes\" }\n * We must create an AngularJS [directive](https://docs.angularjs.org/guide/directive)\n * that will
  make this Angular component available inside AngularJS templates.\n * The `downgradeComponent()` function
  returns a factory function that we\n * can use to define the AngularJS directive that wraps the \"downgraded\"
  component.\n * { @example upgrade/static/ts/full/module.ts region=\"ng2-heroes-wrapper\" }\n * For more
  details and examples on downgrading Angular components to AngularJS components please\n * visit the [Upgrade
  guide](guide/upgrade#using-angular-components-from-angularjs-code).\n
  *\n * @param info contains information about the Component that is being downgraded:\n * - `component:
  Type<any>`: The type of the Component that will be downgraded\n * - `downgradedModule?`: string`: The name of
  the downgraded module (if any) that the component\n * \"belongs to\", as returned by a call to
  `downgradeModule()`. It is the module, whose\n * corresponding Angular module will be bootstrapped, when the
  component needs to be instantiated.\n * <br />\n * (This option is only necessary when using
  `downgradeModule()` to downgrade more than one\n * Angular module.)\n * - `propagateDigest?: boolean`:
  Whether to perform { @link ChangeDetectorRef#detectChanges\n * change detection} on the component on
  every\n * [$digest](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest). If set to `false`,\n * change

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detection will still be performed when any of the component's inputs changes.\n * (Default: true)\n
*\n * @returns a factory function that can be used to register the component in an\n * AngularJS module.\n *\n *
@publicApi\n *\nexport function downgradeComponent(info: {\n component: Type<any>; downgradedModule?:
string; propagateDigest?: boolean;\n /** @deprecated since v4. This parameter is no longer used *\n inputs?:
string[];\n /** @deprecated since v4. This parameter is no longer used *\n outputs?: string[];\n /** @deprecated
since v4. This parameter is no longer used *\n selectors?: string[];\n}): any /* angular.IInjectable */ {\n const
directiveFactory: IAnnotatedFunction = function(\n $compile: ICompileService, $injector: IInjectorService,
$parse: IParseService): IDirective {\n // When using `downgradeModule()`, we need to handle certain things
specially. For example:\n // - We always need to attach the component view to the `ApplicationRef` for it to be\n
// dirty-checked.\n // - We need to ensure callbacks to Angular APIs (e.g. change detection)
are run inside the\n // Angular zone.\n // NOTE: This is not needed, when using `UpgradeModule`, because
`$digest()` will be run\n // inside the Angular zone (except if explicitly escaped, in which case we shouldn't\n
// force it back in).\n const isNgUpgradeLite = getUpgradeAppType($injector) ===
UpgradeAppType.Lite;\n const wrapCallback: <T>(cb: () => T) => typeof cb =\n !isNgUpgradeLite ? cb =>
cb : cb => () => NgZone.isInAngularZone() ? cb() : ngZone.run(cb);\n let ngZone: NgZone;\n\n // When
downgrading multiple modules, special handling is needed wrt injectors.\n const hasMultipleDowngradedModules
=\n isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);\n\n return {\n restrict: 'E',\n
terminal: true,\n require: [REQUIRE_INJECTOR, REQUIRE_NG_MODEL],\n link: (scope: IScope,
element: IAugmentedJQuery, attrs: IAttributes, required: any[]) => {\n // We might have to compile the
contents asynchronously, because this might have been\n // triggered by
`UpgradeNg1ComponentAdapterBuilder`, before the Angular templates have\n // been compiled.\n\n const
ngModel: INgModelController = required[1];\n const parentInjector: Injector|Thenable<Injector>|undefined =
required[0];\n let moduleInjector: Injector|Thenable<Injector>|undefined = undefined;\n let ranAsync =
false;\n\n if (!parentInjector || hasMultipleDowngradedModules) {\n const downgradedModule =
info.downgradedModule || ";\n const lazyModuleRefKey =
`${LAZY_MODULE_REF}${downgradedModule}`;\n const attemptedAction = `instantiating component
`${getTypeName(info.component)}";\n validateInjectionKey($injector, downgradedModule,
lazyModuleRefKey, attemptedAction);\n const lazyModuleRef = $injector.get(lazyModuleRefKey) as
LazyModuleRef;\n moduleInjector = lazyModuleRef.injector || lazyModuleRef.promise as
Promise<Injector>;\n }\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 bootstrap 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 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 // - If there is a parent component, but it may belong
to a different `NgModule`, then we\n // use the `parentInjector` as `finalParentInjector` and this downgraded
component's\n // declaring `NgModule`'s injector as `finalModuleInjector`.\n // Note 1: If the
`NgModule` is already bootstrapped, we just get its injector (we don't\n // bootstrap again).\n // Note
2: It is possible that (while there are multiple downgraded modules) this\n // downgraded component and
its parent component both belong to the same NgModule.\n // In that case, we could have used the
`parentInjector` as both\n // `finalModuleInjector`

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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.\n // If there is a parent component, use its injector as parent injector.\n // If this is a
`"top-level"` Angular component, use the module injector.\n const finalParentInjector = parentInjector ||
moduleInjector !;\n // If this is a `"top-level"` Angular component or the parent component may belong to a\n
// different `NgModule`, use the module injector for module-specific dependencies.\n // If there is a parent
component that belongs to the same `NgModule`, use its injector.\n const finalModuleInjector = moduleInjector
|| parentInjector
!;\n const doDowngrade = (injector: Injector, moduleInjector: Injector) => {\n // Retrieve
`ComponentFactoryResolver` from the injector tied to the `NgModule` this\n // component belongs to.\n
const componentFactoryResolver: ComponentFactoryResolver =\n
moduleInjector.get(ComponentFactoryResolver);\n const componentFactory: ComponentFactory<any> =\n
componentFactoryResolver.resolveComponentFactory(info.component) !;\n if (!componentFactory) {\n
throw new Error(`Expecting ComponentFactory for: ${getTypeName(info.component)}`);\n }\n
const injectorPromise = new ParentInjectorPromise(element);\n const facade = new
DowngradeComponentAdapter(\n element, attrs, scope, ngModel, injector, $injector, $compile, $parse,\n
componentFactory, wrapCallback);\n const projectableNodes = facade.compileContents();\n
facade.createComponent(projectableNodes);\n
facade.setupInputs(isNgUpgradeLite, info.propagateDigest);\n facade.setupOutputs();\n
facade.registerCleanup();\n injectorPromise.resolve(facade.getInjector());\n if (ranAsync) {\n
// If this is run async, it is possible that it is not run inside a\n // digest and initial input values will not be
detected.\n scope.$evalAsync(() => {});\n }\n }\n const downgradeFn =\n !isNgUpgradeLite ? doDowngrade : (pInjector: Injector, mInjector: Injector) => {\n if (!ngZone) {\n
ngZone = pInjector.get(NgZone);\n }\n wrapCallback(() => doDowngrade(pInjector,
mInjector));\n }; // NOTE: // Not using `ParentInjectorPromise.all()` (which is inherited from
`SyncPromise`), because\n // Closure Compiler (or some related tool) complains: // `TypeError:
...$src$downgrade_component_ParentInjectorPromise.all
is not a function`\n SyncPromise.all([finalParentInjector, finalModuleInjector]).then(([pInjector,
mInjector]) => downgradeFn(pInjector, mInjector));\n ranAsync = true;\n }\n }\n // bracket-
notation because of closure - see #14441\n directiveFactory['$inject'] = [$COMPILE, $INJECTOR, $PARSE];\n
return directiveFactory;\n}\n\n/**\n * Synchronous promise-like object to wrap parent injectors,\n * to preserve the
synchronous nature of AngularJS's `$compile`.\n */\n class ParentInjectorPromise extends SyncPromise<Injector>
{\n private injectorKey: string = controllerKey(INJECTOR_KEY);\n constructor(private element:
IAugmentedJQuery) {\n super();\n // Store the promise on the element.\n element.data !(this.injectorKey,
this);\n }\n resolve(injector: Injector): void {\n // Store the real injector on the element.\n this.element.data
!(this.injectorKey, injector);\n // Release
the element to prevent memory leaks.\n this.element = null !;\n // Resolve the promise.\n
super.resolve(injector);\n }\n}\n", "/*\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of
this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n */\n\nimport {Injector} from '@angular/core';\nimport {IInjectorService} from
'./angular1';\nimport {$INJECTOR, INJECTOR_KEY} from './constants';\nimport {getTypeName, isFunction,
validateInjectionKey} from './util';\n\n/**\n * @description\n *\n * A helper function to allow an Angular service to
be accessible from AngularJS.\n *\n * Part of the [upgrade/static](api?query=upgrade%2Fstatic)\n * library for
hybrid upgrade apps that support AOT compilation*\n *\n * This helper function returns a factory function that
provides access to the Angular\n * service identified by the `token` parameter.\n *\n * @usageNotes\n * ###
Examples\n *\n * First

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support single directive definition for: ${name}`);
}

const directive = directives[0]; // AngularJS will
transform `link: xyz` to `compile: () => xyz`. So we can only tell there was a
// user-defined `compile` if there is
no `link`. In other cases, we will just ignore `compile`.
if (directive.compile && !directive.link)
notSupported(name, 'compile');
if (directive.replace) notSupported(name, 'replace');
if (directive.terminal)
notSupported(name, 'terminal');
return directive;
}

static getTemplate($injector: IInjectorService,
directive: IDirective, fetchRemoteTemplate = false,
$element?: IAugmentedJQuery): string|Promise<string>
{
if (directive.template !== undefined) {
return getOrCall<string>(directive.template, $element);
} else
if (directive.templateUrl) {
const $templateCache = $injector.get($TEMPLATE_CACHE) as
ITemplateCacheService;
const url = getOrCall<string>(directive.templateUrl,
$element);
const template = $templateCache.get(url);
if (template !== undefined) {
return
template;
} else if (!fetchRemoteTemplate) {
throw new Error('loading directive templates
asynchronously is not supported');
}
return new Promise((resolve, reject) => {
const $httpBackend
= $injector.get($HTTP_BACKEND) as IHttpBackendService;
$httpBackend('GET', url, null, {status: number,
response: string}) => {
if (status === 200) {
resolve($templateCache.put(url, response));
}
else {
reject('GET component template from `${url}` returned `${status}: ${response}`');
}
});
} else {
throw new Error(`Directive '${directive.name}' is not a component, it is missing
template.`);
}
}

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

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

onDestroy($scope: IScope, controllerInstance?: any) {
if
(controllerInstance && isFunction(controllerInstance.$onDestroy)) {
controllerInstance.$onDestroy();
}
$scope.$destroy();
// Clean the jQuery/jqLite data on the component+child elements.
// Equivalent to how
jQuery/jqLite invoke `cleanData` on an Element (this.element)
//
https://github.com/jquery/jquery/blob/e743cbd28553267f955f71ea7248377915613fd9/src/manipulation.js#L223
// https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2aab70d86d4d688c82/src/jqLite.js#L306-L312
// `cleanData` will invoke the AngularJS `$destroy` DOM event
// https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2aab70d86d4d688c82/src/Angular.js#L1911-L1924
angularElement.cleanData([this.element]);
angularElement.cleanData(this.element.querySelectorAll('*'));
}

prepareTransclusion(): ILinkFn|undefined
{
const transclude = this.directive.transclude;
const contentChildNodes = this.extractChildNodes();
const
attachChildrenFn: ILinkFn = (scope, cloneAttachFn) => {
// Since AngularJS v1.5.8, `cloneAttachFn` will try
to destroy the transclusion scope if
// `template` is empty. Since the transcluded content comes from Angular,
not AngularJS,
// there will be no transclusion
scope here.
// Provide a dummy `scope.$destroy()` method to prevent `cloneAttachFn` from throwing.
scope = scope || {$destroy: () => undefined};
return cloneAttachFn!($template, scope);
};
let $template
= contentChildNodes;
if (transclude) {
const slots = Object.create(null);
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.
});
}
}
}

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// 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    $template.forEach(node => {\n        if (node.nodeType === Node.TEXT_NODE &&
!node.nodeValue) {\n            node.nodeValue = '\\u200C';\n        }\n    });\n\n    return attachChildrenFn;\n
}\n\n    resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) {\n        const directiveRequire
= this.getDirectiveRequire();\n        const requiredControllers = this.resolveRequire(directiveRequire);\n\n        if
(controllerInstance && this.directive.bindToController && isArray(directiveRequire)) {\n            const
requiredControllersMap = requiredControllers as {[key: string]: IControllerInstance};\n            Object.keys(requiredControllersMap).forEach(key => {\n                controllerInstance[key] =
requiredControllersMap[key];\n            });\n        }\n\n        return requiredControllers;\n    }\n\n    private compileHtml(html:
string): ILinkFn {\n        this.element.innerHTML = html;\n        return this.$compile(this.element.childNodes);\n    }\n\n    private extractChildNodes(): Node[] {\n        const childNodes: Node[] = [];\n        let childNode: Node|null;\n\n        while
(childNode = this.element.firstChild)\n        {\n            this.element.removeChild(childNode);\n            childNodes.push(childNode);\n        }\n\n        return childNodes;\n
}\n\n    private getDirectiveRequire(): DirectiveRequireProperty {\n        const require = this.directive.require ||
(this.directive.controller && this.directive.name) !;\n\n        if (isArray(require)) {\n            Object.keys(require).forEach(key => {\n                const value = require[key];\n                const match =
value.match(REQUIRE_PREFIX_RE) !;\n                const name = value.substring(match[0].length);\n\n                if (!name)\n                {\n                    require[key] = match[0] + key;\n                }\n            });\n        }\n\n        return require;\n    }\n\n    private
resolveRequire(require: DirectiveRequireProperty, controllerInstance?: any):\n    SingleOrListOrMap<IControllerInstance>|null {\n        if (!require) {\n            return null;\n        } else if
(Array.isArray(require)) {\n            return require.map(req => this.resolveRequire(req));\n        } else if (typeof require
=== 'object') {\n            const value:
{[key: string]: IControllerInstance} = {};\n            Object.keys(require).forEach(key => value[key] =
this.resolveRequire(require[key]) !);\n            return value;\n        } else if (typeof require === 'string') {\n            const match
= require.match(REQUIRE_PREFIX_RE) !;\n            const inheritType = match[1] || match[3];\n            const name =
require.substring(match[0].length);\n            const isOptional = !!match[2];\n            const searchParents = !!inheritType;\n            const startOnParent = inheritType === '^';\n            const ctrlKey = controllerKey(name);\n            const elem =
startOnParent ? this.$element.parent !() : this.$element;\n            const value = searchParents ? elem.inheritedData
!(ctrlKey) : elem.data !(ctrlKey);\n            if (!value && !isOptional) {\n                throw new Error(\n                    `Unable to
find required `${require}` in upgraded directive `${this.name}``);\n            }\n            return value;\n        } else {\n            throw
new Error(\n                `Unrecognized 'require' syntax on upgraded

```



```

directive `${this.name}`: ${require}`);
}
}
function getOrCall<T>(property: T | Function, ...args:
any[]): T {
return isFunction(property) ? property(...args) : property;
}
// NOTE: Only works for `typeof T
!=== 'object'`.
function isMap<T>(value: SingleOrListOrMap<T>): value is {[key: string]: T} {
return value &&
!Array.isArray(value) && typeof value === 'object';
}
function notSupported(name: string, feature: string) {
throw new Error(`Upgraded directive `${name}` contains unsupported feature: `${feature}`.`);
}
/**
 *
 * @license
 * Copyright Google Inc. All Rights Reserved.
 * Use of this source code is governed by an MIT-
 * style license that can be
 * found in the LICENSE file at https://angular.io/license
 */
import {Directive,
DoCheck, ElementRef, EventEmitter, Inject, Injector, OnChanges, OnDestroy, OnInit, SimpleChange,
SimpleChanges, Type} from '@angular/core';
import {IAttributes, IDirective, IDirectivePrePost,
IInjectorService,
ILinkFn, IScope, ITranscludeFunction} from './common/src/angular1';
import {$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
// inlining this into @Directive
// TODO(tbosch): find or file a bug against TypeScript for this.
const
directive = {selector: selector, inputs: this.inputsRename, outputs: this.outputsRename};
@Directive({jit: true,
...directive})
class MyClass extends UpgradeNg1ComponentAdapter implements OnInit, OnChanges,
DoCheck,
OnDestroy {
constructor(@Inject($SCOPE) scope: IScope, injector: Injector, elementRef:
ElementRef) {
super(
new UpgradeHelper(injector, name, elementRef, self.directive || undefined),
scope,
self.template, self.inputs, self.outputs, self.propertyOutputs, self.checkProperties,
self.propertyMap) as any;
}
this.type = MyClass;
}
extractBindings() {
const btcIsObject =
typeof this.directive!.bindToController === 'object';
if (btcIsObject
&& Object.keys(this.directive!.scope!).length) {
throw new Error(`Binding definitions on scope and
controller at the same time are not supported.`);
}
const context = (btcIsObject) ? this.directive
!.bindToController : this.directive!.scope;
if (typeof context === 'object') {
Object.keys(context).forEach(propName => {
const definition = context[propName];
const
bindingType = definition.charAt(0);
const bindingOptions = definition.charAt(1);
const attrName =
definition.substring(bindingOptions === '?' ? 2 : 1) || propName;
// QUESTION: What about `=*`? Ignore?
Throw? Support?
const inputName = `input_${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.);\n    }\n    });\n    }\n    }\n    }\n    /**\n *
Upgrade ng1 components into Angular.\n */\n static resolve(\n   exportedComponents: {[name: string]:
UpgradeNg1ComponentAdapterBuilder},\n   $injector: IInjectorService): Promise<string[]> {\n   const promises
= Object.keys(exportedComponents).map(name => {\n   const exportedComponent =
exportedComponents[name];\n   exportedComponent.directive = UpgradeHelper.getDirective($injector, name);\n
exportedComponent.extractBindings();\n   return Promise\n.resolve(UpgradeHelper.getTemplate($injector, exportedComponent.directive, true))\n   .then(template =>
exportedComponent.template = template);\n   });\n   return Promise.all(promises);\n   }\n   }\n   \n   class
UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck {\n   private controllerInstance:
IControllerInstance|null = null;\n   destinationObj: IBindingDestination|null =
null;\n   checkLastValues: any[] = [];\n   directive: IDirective;\n   element: Element;\n   $element: any = null;\n
componentScope: IScope;\n   \n   constructor(\n     private helper: UpgradeHelper, scope: IScope, private template:
string,\n     private inputs: string[], private outputs: string[], private propOuts: string[],\n     private checkProperties:
string[], private propertyMap: {[key: string]: string}) {\n     this.directive = helper.directive;\n     this.element =
helper.element;\n     this.$element = helper.$element;\n     this.componentScope =
scope.$new(!this.directive.scope);\n     \n     const controllerType = this.directive.controller;\n     \n     if
(this.directive.bindToController && controllerType) {\n     this.controllerInstance =
this.helper.buildController(controllerType, this.componentScope);\n     this.destinationObj =
this.controllerInstance;\n     } else {\n     this.destinationObj = this.componentScope;\n     }\n     \n     for (let i = 0; i <
inputs.length; i++) {\n     (this as
any)[inputs[i]] = null;\n     }\n     \n     for (let j = 0; j < outputs.length; j++) {\n     const emitter = (this as any)[outputs[j]]
= new EventEmitter<any>();\n     if (this.propOuts.indexOf(outputs[j]) === -1) {\n
this.setComponentProperty(\n       outputs[j], (emitter => (value: any) => emitter.emit(value))(emitter));\n     }\n     }\n     \n     for (let k = 0; k < propOuts.length; k++) {\n     this.checkLastValues.push(INITIAL_VALUE);\n     }\n     }\n     \n     ngOnInit() {\n     // Collect contents, insert and compile template\n     const attachChildNodes: ILinkFn|undefined =
this.helper.prepareTransclusion();\n     const linkFn = this.helper.compileTemplate(this.template);\n     \n     // Instantiate
controller (if not already done so)\n     const controllerType = this.directive.controller;\n     const bindToController =
this.directive.bindToController;\n     if (controllerType && !bindToController) {\n     this.controllerInstance =
this.helper.buildController(controllerType, this.componentScope);\n     }\n     \n     // Require other controllers\n     const requiredControllers =\nthis.helper.resolveAndBindRequiredControllers(this.controllerInstance);\n     \n     // Hook: $OnInit\n     if
(this.controllerInstance && isFunction(this.controllerInstance.$OnInit)) {\n     this.controllerInstance.$OnInit();\n     }\n     \n     // Linking\n     const link = this.directive.link;\n     const preLink = typeof link === 'object' && link.pre;\n
const postLink = typeof link === 'object' ? link.post : link;\n     const attrs: IAttributes = NOT_SUPPORTED;\n
const transcludeFn: ITranscludeFunction = NOT_SUPPORTED;\n     if (preLink) {\n     preLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);\n     }\n     \n     linkFn(this.componentScope, null !, {parentBoundTranscludeFn: attachChildNodes});\n     \n     if (postLink) {\n     postLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);\n     }\n     \n     // Hook:
$postLink\n     if (this.controllerInstance &&
isFunction(this.controllerInstance.$postLink)) {\n     this.controllerInstance.$postLink();\n     }\n     }\n     \n     ngOnChanges(changes: SimpleChanges) {\n     const ng1Changes: any = {};\n     \n     Object.keys(changes).forEach(name
=> {\n     const change: SimpleChange = changes[name];\n     this.setComponentProperty(name,
change.currentValue);\n     \n     ng1Changes[this.propertyMap[name]] = change;\n     });\n     \n     if
(isFunction(this.destinationObj !.$onChanges)) {\n     this.destinationObj !.$onChanges !(ng1Changes);\n     }\n     }\n     \n     ngDoCheck() {\n     const destinationObj = this.destinationObj;\n     const lastValues = this.checkLastValues;\n
const checkProperties = this.checkProperties;\n     const propOuts = this.propOuts;\n     \n     checkProperties.forEach((propName, i) => {\n     const value = destinationObj ![propName];\n     const last =
lastValues[i];\n     if (!strictEquals(last, value)) {\n     const eventEmitter: EventEmitter<any> = (this as

```



```

*\n *\n * document.body.innerHTML = '<ng2-comp name="World">project</ng2-comp>';\n *\n *
adapter.bootstrap(document.body, ['myExample']).ready(function() {\n *
expect(document.body.textContent).toEqual(\n *   \n *   '\n *   'ng2[ng1[Hello World!](transclude)](project)');\n *
* });\n *\n * ``\n *\n * @deprecated Deprecated since v5. Use `upgrade/static` instead, which also supports\n *
[Ahead-of-Time compilation](guide/aot-compiler).\n * @publicApi\n * ^\n * export class UpgradeAdapter {\n *   private
idPrefix: string = `NG2_UPGRADE_${upgradeCount++}`;\n *   private downgradedComponents: Type<any>[] =
[];\n *   /**\n *     * An internal map of ng1 components which need to up upgraded to ng2.\n *     * We can't upgrade
until injector is instantiated and we can retrieve the component metadata.\n *     * For this reason we keep a list of
components to upgrade until ng1 injector is bootstrapped.\n *     * @internal\n *     * ^\n *     * private
ng1ComponentsToBeUpgraded: {[name: string]: UpgradeNg1ComponentAdapterBuilder} = {};\n *     * private
upgradedProviders: StaticProvider[] = [];\n *     * // TODO(issue/24571): remove '!.\n *     * private ngZone !: NgZone;\n *     * //
TODO(issue/24571): remove '!.\n *     * private ng1Module !: IModule;\n *     * private moduleRef: NgModuleRef<any>|null
= null;\n *     * // TODO(issue/24571):
remove '!.\n *     * private ng2BootstrapDeferred !: Deferred<IInjectorService>;\n *     * constructor(private ng2AppModule:
Type<any>, private compilerOptions?: CompilerOptions) {\n *       if (!ng2AppModule) {\n *         throw new Error(\n
'UpgradeAdapter cannot be instantiated without an NgModule of the Angular app.);\n *       }\n *     }\n *     /**\n *     * Allows
Angular Component to be used from AngularJS.\n *     * Use `downgradeNg2Component` to create an AngularJS
Directive Definition Factory from\n *     * Angular Component. The adapter will bootstrap Angular component from
within the\n *     * AngularJS template.\n *     * @usageNotes\n *     * ### Mental Model\n *     * 1. The component is
instantiated by being listed in AngularJS template. This means that the\n *     * host element is controlled by
AngularJS, but the component's view will be controlled by\n *     * Angular.\n *     * 2. Even though the component is
instantiated in AngularJS, it will be using Angular\n *     * syntax. This has to be
done, this way because we must follow Angular components do not\n *     * declare how the attributes should be
interpreted.\n *     * 3. `ng-model` is controlled by AngularJS and communicates with the downgraded Angular
component\n *     * by way of the `ControlValueAccessor` interface from @angular/forms. Only components that\n
*     * implement this interface are eligible.\n *     * \n *     * ### Supported Features\n *     * - Bindings:\n *     * - Attribute:
`<comp name="World">\n *     * - Interpolation: `<comp greeting="Hello {{name}}!">\n *     * - Expression:
`<comp [name]="username">\n *     * - Event: `<comp (close)="doSomething()">\n *     * - ng-model: `<comp ng-
model="name">\n *     * - Content projection: yes\n *     * \n *     * ### Example\n *     * ``\n *     * const adapter = new
UpgradeAdapter(forwardRef(() => MyNg2Module));\n *     * const module = angular.module('myExample', []);\n *     *
module.directive('greet', adapter.downgradeNg2Component(Greeter));\n *     * \n *     * @Component({\n *     *   selector:
'greet',\n *     *   template: '{{salutation}} {{name}}! - <ng-content></ng-content>\n *     *   })\n *     * class Greeter {\n *
*     * @Input() salutation: string;\n *     * @Input() name: string;\n *     * }\n *     * \n *     * @NgModule({\n *     *   declarations:
[Greeter],\n *     *   imports: [BrowserModule]\n *     *   })\n *     * class MyNg2Module {\n *     * \n *
*     * document.body.innerHTML =\n *     * 'ng1 template: <greet salutation="Hello" [name]="world">text</greet>';\n *
*     * \n *     * adapter.bootstrap(document.body, ['myExample']).ready(function() {\n *
*     * expect(document.body.textContent).toEqual(\n *     * 'ng1 template: Hello world! - text');\n *     * });\n *     * ``\n *     * ^\n
*     * downgradeNg2Component(component: Type<any>): Function {\n
*     * this.downgradedComponents.push(component);\n *     * return downgradeComponent({component});\n *     * }\n *     * /**\n *
*     * Allows AngularJS Component to be used from Angular.\n *     * Use `upgradeNg1Component` to create an
Angular component from AngularJS Component\n *     * directive. The adapter will bootstrap
AngularJS component from within the Angular\n *     * template.\n *     * @usageNotes\n *     * ### Mental Model\n *
*     * 1. The component is instantiated by being listed in Angular template. This means that the\n *     * host element
is controlled by Angular, but the component's view will be controlled by\n *     * AngularJS.\n *     * \n *     * ### Supported
Features\n *     * - Bindings:\n *     * - Attribute: `<comp name="World">\n *     * - Interpolation: `<comp
greeting="Hello {{name}}!">\n *     * - Expression: `<comp [name]="username">\n *     * - Event: `<comp
(close)="doSomething()">\n *     * - Transclusion: yes\n *     * - Only some of the features of\n *     * [Directive
Definition Object](https://docs.angularjs.org/api/ng/service/$compile) are\n *     * supported:\n *     * - `compile`: not

```

supported because the host element is owned by Angular, which does not allow modifying DOM structure during compilation.

- `controller``: supported. (NOTE: injection of `$attrs`` and `$transclude`` is not supported.)
- `controllerAs``: supported.
- `bindToController``: supported.
- `link``: supported. (NOTE: only pre-link function is supported.)
- `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
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() {
    expect(document.body.textContent).toEqual("ng2 template: Hello world! - text");
  });
}

upgradeNg1Component(name: string): Type<any> {
  if
    ((<any>this.ng1ComponentsToBeUpgraded).hasOwnProperty(name))
    return
      this.ng1ComponentsToBeUpgraded[name].type;
  } else {
    return (this.ng1ComponentsToBeUpgraded[name]
= new UpgradeNg1ComponentAdapterBuilder(name)).type;
  }
}
}

/**
 * Registers the adapter's
AngularJS upgrade module for unit testing in AngularJS.

 * Use this instead of `angular.mock.module()` to load the upgrade module into
the AngularJS testing
injector.

 @usageNotes
### Example

const upgradeAdapter = new
UpgradeAdapter(MyNg2Module);
// configure the adapter with upgrade/downgrade components and
services
upgradeAdapter.downgradeNg2Component(MyComponent);
let upgradeAdapterRef:
UpgradeAdapterRef;
let $compile, $rootScope;
// We must register the adapter before any calls to
`inject()`
beforeEach(() => {
  upgradeAdapterRef = upgradeAdapter.registerForNg1Tests(['heroApp']);
});
beforeEach(inject((_ $compile_, _ $rootScope_) => {
  $compile = _ $compile_;
  $rootScope = _ $rootScope_;
}));
it('says hello', (done) => {
  upgradeAdapterRef.ready(() => {
    const element = $compile("<my-component></my-component>")($rootScope);
    $rootScope.$apply();

    expect(element.html()).toContain("Hello World");
    done();
  });
});

 @param modules any AngularJS modules that the upgrade module should depend upon
 @returns an
`UpgradeAdapterRef`, which lets you register a `ready()` callback to
run assertions once the Angular
components are ready to test through AngularJS.

 ^ registerForNg1Tests(modules?: string[]):
UpgradeAdapterRef {
  const windowNgMock = (window as any)['angular'].mock;
  if (!windowNgMock ||
!windowNgMock.module)
    throw new Error('Failed to find `angular.mock.module`');
  this.declareNg1Module(modules);
  windowNgMock.module(this.ng1Module.name);
  const upgrade = new
UpgradeAdapterRef();
  this.ng2BootstrapDeferred.promise.then((ng1Injector) => {
    (<any>upgrade)._bootstrapDone(this.moduleRef, ng1Injector);
  }, onError);
  return upgrade;
}

 /**
Bootstrap a hybrid AngularJS / Angular application.

 * This `bootstrap` method is a direct replacement (takes same arguments) for AngularJS
`bootstrap` (https://docs.angularjs.org/api/ng/function/angular.bootstrap) method. Unlike
AngularJS, this
bootstrap is asynchronous.

 @usageNotes
### Example

const adapter = new
UpgradeAdapter(MyNg2Module);
const module = angular.module('myExample', []);
module.directive('ng2', adapter.downgradeNg2Component(Ng2));
module.directive('ng1', function() {
  return {
    scope: { title: '=' },
    template: 'ng1[Hello {{ title }}]!(<span ng-transclude></span>)'
  };
}
}

```



```

ng1Module.constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Dynamic)\n
.factory(INJECTOR_KEY, () => this.moduleRef !.injector.get(Injector))\n    .factory(\n
LAZY_MODULE_REF,\n    [INJECTOR_KEY, (injector: Injector) => ({ injector } as LazyModuleRef)])\n
.constant(NG_ZONE_KEY, this.ngZone)\n    .factory(COMPILE_KEY, () => this.moduleRef\n
!.injector.get(Compiler))\n    .config([\n    '$provide', '$injector',\n    (provide:\n    IProvideService, ng1Injector: IInjectorService) => {\n    provide.decorator($ROOT_SCOPE, [\n
'$delegate',\n    function(rootScopeDelegate: IRootScopeService) {\n    // Capture the root apply so that\n
we can delay first call to $apply until we\n    // bootstrap Angular and then we replay and restore the\n
$apply.\n    rootScopePrototype = rootScopeDelegate.constructor.prototype;\n    if\n
(rootScopePrototype.hasOwnProperty('$apply')) {\n    original$applyFn = rootScopePrototype.$apply;\n
rootScopePrototype.$apply = (exp: any) => delayApplyExps.push(exp);\n    } else {\n    throw\n
new Error('Failed to find \''$apply'\'' on \''$rootScope\''!);\n    }\n    return rootScope =\n
rootScopeDelegate;\n    }]);\n    if (ng1Injector.has($$TESTABILITY)) {\n
provide.decorator($$TESTABILITY, [\n
    '$delegate',\n    function(testabilityDelegate: ITestabilityService) {\n    const\n
originalWhenStable: Function = testabilityDelegate.whenStable;\n    // Cannot use arrow function below\n
because we need the context\n    const newWhenStable = function(this: unknown, callback: Function) {\n
originalWhenStable.call(this, function(this: unknown) {\n    const ng2Testability: Testability =\n
upgradeAdapter.moduleRef !.injector.get(Testability);\n    if (ng2Testability.isStable())\n
{\n    callback.apply(this, arguments);\n    } else {\n
ng2Testability.whenStable(newWhenStable.bind(this, callback));\n    }\n    });\n
});\n    testabilityDelegate.whenStable = newWhenStable;\n    return testabilityDelegate;\n
})\n    ]);\n    }]);\n    ng1Module.run([\n    '$injector', '$rootScope',\n
(ng1Injector: IInjectorService, rootScope: IRootScopeService) => {\n
UpgradeNg1ComponentAdapterBuilder.resolve(this.ng1ComponentsToBeUpgraded, ng1Injector)\n    .then(()\n
=> {\n    // Note: There is a bug in TS 2.4 that prevents us from\n    // inlining this into @NgModule\n
// TODO(tbosch): find or file a bug against TypeScript for this.\n    const ngModule = {\n
providers: [\n    { provide: $INJECTOR, useFactory: () => ng1Injector },\n    { provide: $COMPILE,\n
useFactory: () => ng1Injector.get($COMPILE)},\n    this.upgradedProviders\n    ],\n
imports: [resolveForwardRef(this.ng2AppModule)],\n    entryComponents: this.downgradedComponents\n
};\n    // At this point we have ng1 injector\n
and we have prepared\n    // ng1 components to be upgraded, we now can bootstrap ng2.\n
@NgModule({jit: true, ...ngModule})\n    class DynamicNgUpgradeModule {\n    constructor() {\n
ngDoBootstrap() {\n    }\n    platformRef\n    .bootstrapModule(\n
DynamicNgUpgradeModule, [this.compilerOptions !, {ngZone: this.ngZone}])\n    .then((ref:\n
NgModuleRef<any>) => {\n    this.moduleRef = ref;\n    this.ngZone.run(() => {\n
if (rootScopePrototype) {\n    rootScopePrototype.$apply = original$applyFn; // restore original\n
$apply\n
while (delayApplyExps.length) {\n
rootScope.$apply(delayApplyExps.shift());\n    }\n    rootScopePrototype = null;\n
}\n    });\n
})\n    .then(() => this.ng2BootstrapDeferred.resolve(ng1Injector), onError)\n    .then(() => {\n
let subscription = this.ngZone.onMicrotaskEmpty.subscribe({\n    next: () => {\n
if (rootScope.$$phase) {\n    if (isDevMode()) {\n    console.warn(\n
'A digest was triggered while one was already in progress. This may mean that something is triggering digests\n
outside the Angular zone.);\n    }\n    }\n    return rootScope.$evalAsync(() => {});\n
})\n    }\n    return rootScope.$digest();\n    });\n
})\n    .catch((e) =>\n
this.ng2BootstrapDeferred.reject(e);\n    });\n
}]);\n

```





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

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templateNamespace?: string;\n terminal?: boolean;\n transclude?: DirectiveTranscludeProperty;\n}\n\nexport type
DirectiveRequireProperty = SingleOrListOrMap<string>;\n\nexport type DirectiveTranscludeProperty = boolean |
'element' | {[key: string]: string};\n\nexport interface IDirectiveCompileFn {\n (templateElement:
IAugmentedJQuery, templateAttributes: IAttributes,\n transclude: ITranscludeFunction):
IDirectivePrePost;\n}\n\nexport interface IDirectivePrePost {\n pre?: IDirectiveLinkFn;\n post?:
IDirectiveLinkFn;\n}\n\nexport interface IDirectiveLinkFn {\n (scope: IScope, instanceElement: IAugmentedJQuery,
instanceAttributes: IAttributes,\n controller: any, transclude: ITranscludeFunction): void;\n}\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}\n\nexport interface IAttributes {\n $observe(attr: string, fn: (v: string) => void):
void;\n [key: string]: any;\n}\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}\n\nexport interface ICloneAttachFunction { (clonedElement: IAugmentedJQuery, scope:
IScope): any; }\n\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};\n\nexport
interface IProvider { $get: IInjectable; }\n\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}\n\nexport interface IParseService {
(expression: string): ICompiledExpression; }\n\nexport interface ICompiledExpression {\n (context: any, locals: any):
any;\n assign?: (context: any, value: any) => any;\n}\n\nexport interface IHttpBackendService {\n (method:
string, url: string, post?: any, callback?: Function, headers?: any, timeout?: number,\n withCredentials?: boolean):
void;\n}\n\nexport interface ICacheObject {\n put<T>(key: string, value?: T): T;\n get(key: string): any;\n}\n\nexport
interface ITemplateCacheService extends ICacheObject { }\n\nexport interface ITemplateRequestService {\n
(template: string|any /* TrustedResourceUrl */, ignoreRequestError?: boolean): Promise<string>;\n
totalPendingRequests: number;\n}\n\nexport type IController = string | IInjectable;\n\nexport interface
IControllerService {\n (controllerConstructor: IController, locals?: any, later?: any, ident?: any): any;\n
(controllerName: string, locals?: any): any;\n}\n\nexport interface IInjectorService {\n get(key: string): any;\n
has(key: string): boolean;\n}\n\nexport interface IIntervalService {\n (func: Function, delay: number, count?:
number, invokeApply?: boolean,\n ...args: any[]): Promise<any>;\n cancel(promise: Promise<any>):
boolean;\n}\n\nexport
interface ITestabilityService {\n findBindings(element: Element, expression: string, opt_exactMatch?: boolean):
Element[];\n findModels(element: Element, expression: string, opt_exactMatch?: boolean): Element[];\n
getLocation(): string;\n setLocation(url: string): void;\n whenStable(callback: Function): void;\n}\n\nexport

```

```

interface INgModelController {
  $render(): void;
  $isEmpty(value: any): boolean;
  $setValidity(validationErrorKey: string, isValid: boolean): void;
  $setPristine(): void;
  $setDirty(): void;
  $setUntouched(): void;
  $setTouched(): void;
  $rollbackViewValue(): void;
  $validate(): void;
  $commitViewValue(): void;
  $setViewValue(value: any, trigger: string): void;
  $viewValue: any;
  $modelValue: any;
  $parsers: Function[];
  $formatters: Function[];
  $validators: {[key: string]: Function};
  $asyncValidators: {[key: string]: Function};
  $viewChangeListeners: Function[];
  $error: Object;
  $pending: Object;
  $untouched: boolean;
  $touched: boolean;
  $pristine: boolean;
  $dirty: boolean;
  $valid: boolean;
  $invalid: boolean;
  $name: string;
}

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

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

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

angular.resumeBootstrap = noNg;
angular.getTestability = noNg;

if (window.hasOwnProperty('angular')) {
  angular = (<any>window).angular;
}

catch {
  // ignore in CJS mode.
}

/**
 * @deprecated Use `setAngularJSGlobal` instead.
 */
* @publicApi
* ^\nexport function setAngularLib(ng: any): void {
  setAngularJSGlobal(ng);
}

/**
 * @deprecated Use `getAngularJSGlobal` instead.
 */
* @publicApi
* ^\nexport function getAngularLib(): any {
  return getAngularJSGlobal();
}

/**
 * Resets the AngularJS global.
 */
* @publicApi
* ^\nexport function setAngularJSGlobal(ng: any): void {
  angular = ng;
}

/**
 * Returns the current AngularJS global.
 */
* @publicApi
* ^\nexport 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|Injectable>, strictDi?: boolean) => angular.injector(modules, strictDi);

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

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

"/**
 * @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 $INJECTOR = '$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;\nexport const REQUIRE_NG_MODEL = '?ngModel';\n\nexport const
UPGRADE_MODULE_NAME = '$$UpgradeModule';\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*/\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 *\nexport class PropertyBinding
{\n // TODO(issue/24571): remove '!.\n bracketAttr !: string;\n // TODO(issue/24571): remove '!.\n
bracketParenAttr !: string;\n // TODO(issue/24571): remove '!.\n parenAttr !: string;\n // TODO(issue/24571):
remove '!.\n onAttr !: string;\n // TODO(issue/24571): remove '!.\n bindAttr !: string;\n // TODO(issue/24571):
remove '!.\n bindonAttr
!: string;\n\n constructor(public prop: string, public attr: string) { this.parseBinding(); }\n\n private parseBinding()
{\n this.bracketAttr = `[${this.attr}]`; \n this.parenAttr = `(${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
}\n}\n", "/*\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is
governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n
*\n\nimport {Injector, Type} from '@angular/core';\n\nimport {IInjectorService, INgModelController} from
'./angular!';\nimport {DOWNGRADED_MODULE_COUNT_KEY, UPGRADE_APP_TYPE_KEY} from
'./constants';\n\nconst DIRECTIVE_PREFIX_REGEXP = /^(?:x[data)[:-_]/i;\n\nconst
DIRECTIVE_SPECIAL_CHARS_REGEXP = /[:\s-_.+]/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

```

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while ${attemptedAction}: Not a valid '@angular/upgrade'
application.\n` +\n      'Did you forget to downgrade an Angular module or include it in the AngularJS ' +\n
'application?');\n }\n}\n\nexport class Deferred<R> {\n  promise: Promise<R>;\n // TODO(issue/24571): remove
'!\n resolve !: (value?: R | PromiseLike<R>) => void;\n // TODO(issue/24571): remove '!\n reject !: (error?: any)
=> void;\n\n constructor() {\n  this.promise = new Promise((res, rej) => {\n    this.resolve = res;\n    this.reject =
rej;\n  });\n }\n}\n\nexport interface LazyModuleRef {\n  injector?: Injector;\n promise?:
Promise<Injector>;\n}\n\nexport const enum UpgradeAppType {\n // App NOT using `@angular/upgrade`. (This
should never happen in an `ngUpgrade` app.)\n None,\n // App using the deprecated `@angular/upgrade` APIs
(a.k.a. dynamic `ngUpgrade`).\n Dynamic,\n // App using `@angular/upgrade/static` with `UpgradeModule`.\n
Static,\n // App using `@angular/upgrade/static` with `downgradeModule()` (a.k.a `ngUpgrade`-lite
).\n Lite,\n}\n\n/**\n * @return Whether the passed-in component implements the subset of the\n *
`ControlValueAccessor` interface needed for AngularJS `ng-model`\n * compatibility.\n * ^\nfunction
supportsNgModel(component: any) {\n  return typeof component.writeValue === 'function' &&\n    typeof
component.registerOnChange === 'function';\n}\n\n/**\n * Glue the AngularJS `NgModelController` (if it exists) to
the component\n * (if it implements the needed subset of the `ControlValueAccessor` interface).\n * ^\nexport
function hookupNgModel(ngModel: INgModelController, component: any) {\n  if (ngModel &&
supportsNgModel(component)) {\n    ngModel.$render = () => { component.writeValue(ngModel.$viewValue); };
\n    component.registerOnChange(ngModel.$setViewValue.bind(ngModel));\n    if (typeof
component.registerOnTouched === 'function') {\n
component.registerOnTouched(ngModel.$setTouched.bind(ngModel));\n  }\n}\n}\n\n/**\n * Test two values for
strict equality, accounting
for the fact that `NaN !== NaN`.\n * ^\nexport function strictEquals(val1: any, val2: any): boolean {\n  return val1
=== val2 || (val1 !== val1 && val2 !== val2);\n}\n\n"/**\n * @license\n * Copyright Google Inc. All Rights
Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n * ^\n\nimport { ApplicationRef, ChangeDetectorRef, ComponentFactory,
ComponentRef, EventEmitter, Injector, OnChanges, SimpleChange, SimpleChanges, StaticProvider, Testability,
TestabilityRegistry, Type } from '@angular/core';\n\nimport { IAttributes, IAugmentedJQuery, ICompileService,
IInjectorService, INgModelController, IParseService, IScope } from './angular1';\n\nimport { PropertyBinding } from
'./component_info';\n\nimport { $SCOPE } from './constants';\n\nimport { getTypeName, hookupNgModel, strictEquals }
from './util';\n\nconst INITIAL_VALUE = {\n  __UNINITIALIZED__: true\n};\n\nexport class
DowngradeComponentAdapter
{\n  private implementsOnChanges = false;\n  private inputChangeCount: number = 0;\n  private inputChanges:
SimpleChanges = {};\n  private componentScope: IScope;\n // TODO(issue/24571): remove '!\n  private
componentRef!: ComponentRef<any>;\n  private component: any;\n // TODO(issue/24571): remove '!\n  private
changeDetector!: ChangeDetectorRef;\n // TODO(issue/24571): remove '!\n  private viewChangeDetector!:
ChangeDetectorRef;\n\n constructor(\n    private element: IAugmentedJQuery, private attrs: IAttributes, private
scope: IScope,\n    private ngModel: INgModelController, private parentInjector: Injector,\n    private $injector:
IInjectorService, private $compile: ICompileService,\n    private $parse: IParseService, private componentFactory:
ComponentFactory<any>,\n    private wrapCallback: <T>(cb: () => T) => () => T) {\n    this.componentScope =
scope.$new();\n  }\n\n compileContents(): Node[][] {\n    const compiledProjectableNodes: Node[][] = [];\n
const projectableNodes: Node[][] = this.groupProjectableNodes();\n    const linkFns =
projectableNodes.map(nodes => this.$compile(nodes));\n\n    this.element.empty !();\n\n    linkFns.forEach(linkFn
=> {\n      linkFn(this.scope, (clone: Node[]) => {\n        compiledProjectableNodes.push(clone);\n
this.element.append !(clone);\n      });\n    });\n\n    return compiledProjectableNodes;\n  }\n\n createComponent(projectableNodes: Node[][]) {\n    const providers: StaticProvider[] = [{ provide: $SCOPE,
useValue: this.componentScope }];\n    const childInjector = Injector.create(\n      { providers: providers, parent:
this.parentInjector, name: 'DowngradeComponentAdapter' });\n\n    this.componentRef =\n    this.componentFactory.create(childInjector, projectableNodes, this.element[0]);\n    this.viewChangeDetector =

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this.componentRef.injector.get(ChangeDetectorRef);\n  this.changeDetector =
this.componentRef.changeDetectorRef;\n  this.component = this.componentRef.instance;\n\n  // testability hook is commonly added during component bootstrap in\n  // packages/core/src/application_ref.bootstrap()\n  // in downgraded application, component creation will take place
here as well as adding the\n  // testability hook.\n  const testability = this.componentRef.injector.get(Testability,
null);\n  if (testability) {\n    this.componentRef.injector.get(TestabilityRegistry)\n    .registerApplication(this.componentRef.location.nativeElement, testability);\n  }\n\n  hookupNgModel(this.ngModel, this.component);\n  }\n\n  setupInputs(manuallyAttachView: boolean,
propagateDigest = true): void {\n    const attrs = this.attrs;\n    const inputs = this.componentFactory.inputs || [];\n    for (let i = 0; i < inputs.length; i++) {\n      const input = new PropertyBinding(inputs[i].propName,
inputs[i].templateName);\n      let expr: string|null = null;\n      if (attrs.hasOwnProperty(input.attr)) {\n        const
observeFn = (prop => {\n          let
prevValue = INITIAL_VALUE;\n          return (currValue: any) => {\n            // Initially, both `observe()` and
`watch()` will call this function.\n            if (!strictEquals(prevValue, currValue)) {\n              if (prevValue ===
INITIAL_VALUE) {\n                prevValue = currValue;\n              }\n              this.updateInput(prop, prevValue,
currValue);\n            }\n            prevValue = currValue;\n          }\n        });\n      }\n      attrs.$observe(input.attr, observeFn);\n      // Use `watch()` (in addition to `observe()`) in order to initialize the
input in time\n      // for `ngOnChanges()`. This is necessary if we are already in a `digest`, which means that\n
// `ngOnChanges()` (which is called by a watcher) will run before the `observe()` callback.\n      let unwatch:
Function|null = this.componentScope.$watch(() => {\n        unwatch !();\n        unwatch = null;\n      },\n      observeFn(attrs[input.attr]));\n    }\n\n    } else if (attrs.hasOwnProperty(input.bindAttr)) {\n      expr = attrs[input.bindAttr];\n    } else if
(attrs.hasOwnProperty(input.bracketAttr)) {\n      expr = attrs[input.bracketAttr];\n    } else if
(attrs.hasOwnProperty(input.bindonAttr)) {\n      expr = attrs[input.bindonAttr];\n    } else if
(attrs.hasOwnProperty(input.bracketParenAttr)) {\n      expr = attrs[input.bracketParenAttr];\n    }\n    if (expr !=
null) {\n      const watchFn =\n        (prop => (currValue: any, prevValue: any) =>{\n
this.updateInput(prop, prevValue, currValue))(input.prop);\n      this.componentScope.$watch(expr, watchFn);\n
    }\n  }\n\n  // Invoke `ngOnChanges()` and Change Detection (when necessary)\n  const detectChanges = () =>
this.changeDetector.detectChanges();\n  const prototype = this.componentFactory.componentType.prototype;\n  this.implementsOnChanges = !!(prototype && (<OnChanges>prototype).ngOnChanges);\n\n  this.componentScope.$watch(()
=> this.inputChangeCount, this.wrapCallback(() => {\n    // Invoke `ngOnChanges()`\n    if
(this.implementsOnChanges) {\n      const inputChanges = this.inputChanges;\n      this.inputChanges = {};\n
(<OnChanges>this.component).ngOnChanges(inputChanges !);\n    }\n\n    this.viewChangeDetector.markForCheck();\n    // If opted out of propagating digests, invoke change detection
when inputs change.\n    if (!propagateDigest) {\n      detectChanges();\n    }\n  }));\n\n  // If not opted out of
propagating digests, invoke change detection on every digest\n  if (propagateDigest) {\n    this.componentScope.$watch(this.wrapCallback(detectChanges));\n  }\n\n  // If necessary, attach the view so that
it will be dirty-checked.\n  // (Allow time for the initial input values to be set and `ngOnChanges()` to be called.)\n  if (manuallyAttachView || !propagateDigest) {\n    let unwatch: Function|null = this.componentScope.$watch(() =>
{\n
unwatch !();\n    unwatch = null;\n\n    const appRef =
this.parentInjector.get<ApplicationRef>(ApplicationRef);\n    appRef.attachView(this.componentRef.hostView);\n  });\n  }\n\n  setupOutputs() {\n    const attrs =
this.attrs;\n    const outputs = this.componentFactory.outputs || [];\n    for (let j = 0; j < outputs.length; j++) {\n      const output = new PropertyBinding(outputs[j].propName, outputs[j].templateName);\n      const bindonAttr =
output.bindonAttr.substring(0, output.bindonAttr.length - 6);\n      const bracketParenAttr =\n        `[(${output.bracketParenAttr.substring(2, output.bracketParenAttr.length - 8)})]`;
// order below is important -

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first update bindings then evaluate expressions\n    if (attrs.hasOwnProperty(bindonAttr)) {\n
this.subscribeToOutput(output, attrs[bindonAttr], true);\n    }\n    if (attrs.hasOwnProperty(bracketParenAttr)) {\n
    this.subscribeToOutput(output, attrs[bracketParenAttr], true);\n
    }\n    if (attrs.hasOwnProperty(output.onAttr)) {\n        this.subscribeToOutput(output, attrs[output.onAttr]);\n    }\n    if (attrs.hasOwnProperty(output.parenAttr)) {\n        this.subscribeToOutput(output,
attrs[output.parenAttr]);\n    }\n    }\n\n private subscribeToOutput(output: PropertyBinding, expr: string,
isAssignment: boolean = false) {\n    const getter = this.$parse(expr);\n    const setter = getter.assign;\n    if
(isAssignment && !setter) {\n        throw new Error(`Expression '${expr}' is not assignable!`);\n    }\n    const emitter
= this.component[output.prop] as EventEmitter<any>;\n    if (emitter) {\n        emitter.subscribe({\n            next:
isAssignment ? (v: any) => setter !(this.scope, v) :\n                (v: any) => getter(this.scope, {'$event': v})\n        });\n    } else {\n        throw new Error(\n            `Missing emitter '${output.prop}' on component
'${getTypeName(this.componentFactory.componentType)}'`);\n    }\n    }\n\n    registerCleanup() {\n        const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);\n        const
destroyComponentRef = this.wrapCallback(() => this.componentRef.destroy());\n        let destroyed = false;\n        this.element.on (!('$destroy', () => this.componentScope.$destroy());\n        this.componentScope.$on('$destroy', () =>
{\n            if (!destroyed) {\n                destroyed = true;\n            }\n        });\n        testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);\n        destroyComponentRef();\n    }\n    });\n\n    getInjector(): Injector { return this.componentRef.injector; }\n\n    private updateInput(prop: string, prevValue: any, currValue: any) {\n        if (this.implementsOnChanges) {\n            this.inputChanges[prop] = new SimpleChange(prevValue, currValue, prevValue === currValue);\n        }\n        this.inputChangeCount++;\n        this.component[prop] = currValue;\n    }\n\n    groupProjectableNodes() {\n        let
ngContentSelectors = this.componentFactory.ngContentSelectors;\n
        return groupNodesBySelector(ngContentSelectors, this.element.contents !());\n    }\n\n    /**\n     * Group a set of
DOM nodes into `ngContent` groups, based on the given content selectors.\n     */\n    export function
groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[][] {\n        const projectableNodes:
Node[][] = [];\n        let wildcardNgContentIndex: number;\n        for (let i = 0, ii = ngContentSelectors.length; i < ii; ++i)
{\n            projectableNodes[i] = [];\n        }\n        for (let j = 0, jj = nodes.length; j < jj; ++j) {\n            const node = nodes[jj];\n            const ngContentIndex = findMatchingNgContentIndex(node, ngContentSelectors);\n            if (ngContentIndex != null)
{\n                projectableNodes[ngContentIndex].push(node);\n            }\n        }\n        return projectableNodes;\n    }\n\n    function
findMatchingNgContentIndex(element: any, ngContentSelectors: string[]): number|null {\n        const ngContentIndices:
number[] = [];\n        let wildcardNgContentIndex: number = -1;\n        for (let i = 0; i < ngContentSelectors.length;
i++) {\n            const selector = ngContentSelectors[i];\n            if (selector === '*') {\n                wildcardNgContentIndex = i;\n            }
else {\n                if (matchesSelector(element, selector)) {\n                    ngContentIndices.push(i);\n                }\n            }\n        }\n        ngContentIndices.sort();\n        if (wildcardNgContentIndex !== -1) {\n            ngContentIndices.push(wildcardNgContentIndex);\n        }\n        return ngContentIndices.length ? ngContentIndices[0] :
null;\n    }\n\n    let _matches: (this: any, selector: string) => boolean;\n    function matchesSelector(el: any, selector:
string): boolean {\n        if (!_matches) {\n            const elProto = <any>Element.prototype;\n            _matches = elProto.matches ||
elProto.matchesSelector || elProto.mozMatchesSelector ||\n                elProto.msMatchesSelector ||\n                elProto.oMatchesSelector || elProto.webkitMatchesSelector;\n        }\n        return el.nodeType ===
Node.ELEMENT_NODE ? _matches.call(el, selector) : false;\n    }\n\n    "/**\n     * @license\n     * Copyright Google Inc.
All Rights Reserved.\n     */\n     * Use of this
source code is governed by an MIT-style license that can be\n     * found in the LICENSE file at
https://angular.io/license\n     */\n\n    import {isFunction} from './util';\n\n    export interface Thenable<T> { then(callback:
(value: T) => any): any; }\n\n    export function isThenable<T>(obj: unknown): obj is Thenable<T> {\n        return !!obj
&& isFunction((obj as any).then);\n    }\n\n    /**\n     * Synchronous, promise-like object.\n     */\n    export class
SyncPromise<T> {\n        protected value: T|undefined;\n        private resolved = false;\n        private callbacks: ((value: T) =>
unknown)[] = [];\n\n        static all<T>(valuesOrPromises: (T|Thenable<T>)[]): SyncPromise<T[]> {\n            const
aggrPromise = new SyncPromise<T[]>();\n            let resolvedCount = 0;\n            const results: T[] = [];\n            const resolve =

```

```

(idx: number, value: T) => {\n  results[idx] = value;\n  if (++resolvedCount === valuesOrPromises.length)
aggrPromise.resolve(results);\n  };\n  valuesOrPromises.forEach((p, idx) => {\n  if (isThenable(p)) {\n
  p.then(v => resolve(idx, v));\n  } else {\n  resolve(idx, p);\n  }\n  });\n  return aggrPromise;\n }\n\n
resolve(value: T): void {\n  // Do nothing, if already resolved.\n  if (this.resolved) return;\n\n  this.value =
value;\n  this.resolved = true;\n\n  // Run the queued callbacks.\n  this.callbacks.forEach(callback =>
callback(value));\n  this.callbacks.length = 0;\n }\n\n then(callback: (value: T) => unknown): void {\n  if
(this.resolved) {\n  callback(this.value !);\n  } else {\n  this.callbacks.push(callback);\n  }\n }\n\n"}\n\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\nimport
{ComponentFactory, ComponentFactoryResolver, Injector, NgZone, Type} from '@angular/core';\n\nimport
{IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective, IInjectorService,
INgModelController, IParseService, IScope} from './angular1';\n\nimport {$COMPILE, $INJECTOR, $PARSE,
INJECTOR_KEY, LAZY_MODULE_REF, REQUIRE_INJECTOR, REQUIRE_NG_MODEL} from
'./constants';\n\nimport {DowngradeComponentAdapter} from './downgrade_component_adapter';\n\nimport
{SyncPromise, Thenable} from './promise_util';\n\nimport {LazyModuleRef, UpgradeAppType, controllerKey,
getDowngradedModuleCount, getTypeName, getUpgradeAppType, validateInjectionKey} from './util';\n\n\n/**\n\n *
@description\n *\n * A helper function that allows an Angular component to be used from AngularJS.\n *\n * *Part
of the [upgrade/static](api?query=upgrade%2Fstatic)\n * library for hybrid upgrade apps that support AOT
compilation*\n *\n * This helper function returns a factory function to be used for registering\n * an AngularJS
wrapper directive for "downgrading" an Angular component.\n *\n * @usageNotes\n * ### Examples\n *\n * Let's
assume that you have an Angular component called `ng2Heroes` that needs\n
* to be made available in AngularJS templates.\n *\n * {@example upgrade/static/ts/full/module.ts region="ng2-
heroes"}\n *\n * We must create an AngularJS [directive](https://docs.angularjs.org/guide/directive)\n * that will
make this Angular component available inside AngularJS templates.\n * The `downgradeComponent()` function
returns a factory function that we\n * can use to define the AngularJS directive that wraps the "downgraded"\n
component.\n *\n * {@example upgrade/static/ts/full/module.ts region="ng2-heroes-wrapper"}\n *\n * For more
details and examples on downgrading Angular components to AngularJS components please\n * visit the [Upgrade
guide](guide/upgrade#using-angular-components-from-angularjs-code).\n *\n * @param info contains information
about the Component that is being downgraded:\n *\n * - `component: Type<any>`: The type of the Component that
will be downgraded\n * - `downgradedModule?: string`: The name of the downgraded module (if any) that the
component\n
* "belongs to", as returned by a call to `downgradeModule()`. It is the module, whose\n * corresponding
Angular module will be bootstrapped, when the component needs to be instantiated.\n * <br />\n * (This option is
only necessary when using `downgradeModule()` to downgrade more than one\n * Angular module.)\n * -
`propagateDigest?: boolean`: Whether to perform { @link ChangeDetectorRef#detectChanges\n * change
detection} on the component on every\n *
[$digest](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest). If set to `false`,\n * change detection
will still be performed when any of the component's inputs changes.\n * (Default: true)\n *\n * @returns a factory
function that can be used to register the component in an\n * AngularJS module.\n *\n * @publicApi\n *\n\nexport
function downgradeComponent(info: {\n  component: Type<any>;\n  downgradedModule?: string;\n  propagateDigest?:
boolean;\n } /** @deprecated since v4. This parameter is no longer used
*\n\n * ^\n inputs?: string[];\n /** @deprecated since v4. This parameter is no longer used *\n\n * ^\n outputs?: string[];\n /**
@deprecated since v4. This parameter is no longer used *\n\n * selectors?: string[];}) : any /* angular.IInjectable */
{\n  const directiveFactory: IAnnotatedFunction = function(\n    $compile: ICompileService, $injector:
IInjectorService, $parse: IParseService): IDirective {\n    // When using `downgradeModule()`, we need to handle
certain things specially. For example:\n    // - We always need to attach the component view to the `ApplicationRef`
for it to be\n    // dirty-checked.\n    // - We need to ensure callbacks to Angular APIs (e.g. change detection) are run
inside the\n    // Angular zone.\n    // NOTE: This is not needed, when using `UpgradeModule`, because

```

```

`$digest()` will be run\n //      inside the Angular zone (except if explicitly escaped, in which case we shouldn't\n
//      force it back in).\n const isNgUpgradeLite = getUpgradeAppType($injector)
=== UpgradeAppType.Lite;\n const wrapCallback: <T>(cb: () => T) => typeof cb =\n      !isNgUpgradeLite ? cb
=> cb : cb => () => NgZone.isInAngularZone() ? cb() : ngZone.run(cb);\n let ngZone: NgZone;\n\n // When
downgrading multiple modules, special handling is needed wrt injectors.\n const hasMultipleDowngradedModules
=\n      isNgUpgradeLite && (getDowngradedModuleCount($injector) > 1);\n\n return {\n      restrict: 'E',\n
terminal: true,\n      require: [REQUIRE_INJECTOR, REQUIRE_NG_MODEL],\n      link: (scope: IScope,
element: IAugmentedJQuery, attrs: IAttributes, required: any[]) => {\n      // We might have to compile the
contents asynchronously, because this might have been\n      // triggered by
`UpgradeNg1ComponentAdapterBuilder`, before the Angular templates have\n      // been compiled.\n\n      const
ngModel: INgModelController = required[1];\n      const parentInjector: Injector|Thenable<Injector>|undefined =
required[0];\n
      let moduleInjector: Injector|Thenable<Injector>|undefined = undefined;\n      let ranAsync = false;\n\n      if
(!parentInjector || hasMultipleDowngradedModules) {\n      const downgradedModule = info.downgradedModule
|| "";\n      const lazyModuleRefKey = `${LAZY_MODULE_REF}${downgradedModule}`;\n      const
attemptedAction = `instantiating component '${getTypeName(info.component)}';\n\n      const
validateInjectionKey($injector, downgradedModule, lazyModuleRefKey, attemptedAction);\n\n      const
lazyModuleRef = $injector.get(lazyModuleRefKey) as LazyModuleRef;\n      moduleInjector =
lazyModuleRef.injector || lazyModuleRef.promise as Promise<Injector>;\n      }\n\n      // Notes:\n      /\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      /\n      // There are basically three cases:\n      // - 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      // - 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      // - If there is a parent
component, but it may belong to a different `NgModule`, then we\n      // use the `parentInjector` as
`finalParentInjector` and this downgraded component's\n      // declaring `NgModule`'s injector as
`finalModuleInjector`.\n      // Note 1: If the `NgModule` is already bootstrapped, we just get its injector (we
don't\n      // bootstrap again).\n      // Note 2: It is possible that (while there are multiple downgraded
modules) this\n      // downgraded component and its parent component both belong to the same
NgModule.\n      // In that case, we could have used the `parentInjector` as both\n      //
`finalModuleInjector` and `finalParentInjector`, but (for simplicity) we are\n      // treating this case as if they
belong to different `NgModule`s. That doesn't\n      // really affect anything, since `parentInjector` has
`moduleInjector` as ancestor\n      // and trying to resolve `ComponentFactoryResolver`
from either one will return\n      // the same instance.\n\n      // If there is a parent component, use its
injector as parent injector.\n      // If this is a "top-level" Angular component, use the module injector.\n      const
finalParentInjector = parentInjector || moduleInjector !;\n\n      // If this is a "top-level" Angular component or the
parent component may belong to a\n      // different `NgModule`, use the module injector for module-specific
dependencies.\n      // If there is a parent component that belongs to the same `NgModule`, use its injector.\n
const finalModuleInjector = moduleInjector || parentInjector !;\n\n      const doDowngrade = (injector: Injector,
moduleInjector: Injector) => {\n      // Retrieve `ComponentFactoryResolver` from the injector tied to the
`NgModule` this\n      // component belongs to.\n      const componentFactoryResolver:

```





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 downgradeModule` 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/guide/di) that can be used to register the service on an AngularJS module.

```

@publicApi
export function downgradeInjectable(token: any, downgradeModule: string = "):
  Function {
    const factory = function($injector: IInjectorService) {
      const injectorKey =
`${INJECTOR_KEY}${downgradeModule}`;
      const injectableName = isFunction(token) ?
      getTypeName(token) : String(token);
      const attemptedAction = `instantiating injectable '${injectableName}'`;
      validateInjectionKey($injector, downgradeModule, injectorKey, attemptedAction);
      const injector: Injector =
      $injector.get(injectorKey);
      return injector.get(token);
    };
    (factory as any)['$inject'] = [$INJECTOR];
    return factory;
  }
}
", /**
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code is governed by an MIT-style license that can be
found in the LICENSE file at https://angular.io/license
 */
@module
@description
Entry point for all public APIs of the common package.
 */
import
{Version} from '@angular/core';
export const VERSION = new
Version('9.0.7');
", /**
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that can be
found in the LICENSE file at https://angular.io/license
 */
import {IInjectorService} from
'./../src/common/src/angular1';
// We have to do a little dance to get the ng1 injector into the module injector.
// We store the ng1 injector so that the provider in the module injector can access it.
// Then we "get" the ng1 injector from the module injector, which triggers the provider to read
// the stored injector and release the reference to it.
let tempInjectorRef: IInjectorService | null = null;
export function setTempInjectorRef(injector:
IInjectorService) {
  tempInjectorRef = injector;
}
export function injectorFactory() {
  if (!tempInjectorRef) {
    throw new Error("Trying to get the AngularJS injector before it being set.");
  }
  const injector:
IInjectorService = tempInjectorRef;
  tempInjectorRef = null; // clear the value
  to prevent memory leaks
  return injector;
}
export function rootScopeFactory(i: IInjectorService) {
  return
i.get('$rootScope');
}
export function compileFactory(i: IInjectorService) {
  return
i.get('$compile');
}
export function parseFactory(i: IInjectorService) {
  return
i.get('$parse');
}
export
const angularProviders = [
  // 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: '$injector', useFactory: injectorFactory, deps: []},
  {provide: '$rootScope', useFactory: rootScopeFactory, deps:
[$injector]},
  {provide: '$compile', useFactory: compileFactory, deps: [$injector]},
  {provide: '$parse',
useFactory: parseFactory, deps: [$injector]}
];
", /**
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Inc. All Rights Reserved.
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found
in the LICENSE file at https://angular.io/license
 */
import {Injector,
ÉµNOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR} from '@angular/core';
export class
NgAdapterInjector implements Injector {
  constructor(private modInjector: Injector) {}
  // When Angular
locate a service in the component injector tree, the not found value is set to
`NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR`. In such a case we should not walk up to the module
// injector.
// AngularJS only supports a single tree and should always check the module injector.
get(token:
any, notFoundValue?: any): any {
  if (notFoundValue ===
NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR) {
    return notFoundValue;
  }
  return
this.modInjector.get(token, notFoundValue);
}
}
", /**
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```

Reserved.\n \*\n \* Use

of this source code is governed by an MIT-style license that can be\n \* found in the LICENSE file at  
<https://angular.io/license>\n \*\n\nimport { Injector, NgModuleFactory, NgModuleRef, StaticProvider } from  
'@angular/core';\nimport { platformBrowser } from '@angular/platform-browser';\nimport { IInjectorService,  
IProvideService, module\_ as angularModule } from './../src/common/src/angular1';\nimport { \$INJECTOR,  
\$PROVIDE, DOWNGRADED\_MODULE\_COUNT\_KEY, INJECTOR\_KEY, LAZY\_MODULE\_REF,  
UPGRADE\_APP\_TYPE\_KEY, UPGRADE\_MODULE\_NAME } from './../src/common/src/constants';\nimport  
{ LazyModuleRef, UpgradeAppType, getDowngradedModuleCount, isFunction } from  
'./../src/common/src/util';\nimport { angular1Providers, setTempInjectorRef } from './angular1\_providers';\nimport  
{ NgAdapterInjector } from './util';\n\nlet moduleUid = 0;\n\n/\*\*\n \* @description\n \*\n \* A helper function for  
creating an AngularJS module that can bootstrap an Angular module\n \* \"on-demand\" (possibly lazily) when a  
{ @link downgradeComponent  
downgraded component } needs to be\n \* instantiated.\n \*\n \* \*Part of the  
[upgrade/static](api?query=upgrade/static) library for hybrid upgrade apps that\n \* support AOT compilation.\*\n \*\n \* It allows loading/bootstrapping the Angular part of a hybrid application lazily and not having to\n \* pay the cost  
up-front. For example, you can have an AngularJS application that uses Angular for\n \* specific routes and only  
instantiate the Angular modules if/when the user visits one of these\n \* routes.\n \*\n \* The Angular module will be  
bootstrapped once (when requested for the first time) and the same\n \* reference will be used from that point  
onwards.\n \*\n \* `downgradeModule()` requires either an `NgModuleFactory` or a function:\n \* -  
`NgModuleFactory`: If you pass an `NgModuleFactory`, it will be used to instantiate a module\n \* using  
`platformBrowser`'s { @link PlatformRef#bootstrapModuleFactory bootstrapModuleFactory() }. \n \* - `Function`: If  
you pass a function, it is expected  
to return a promise resolving to an\n \* `NgModuleRef`. The function is called with an array of extra { @link  
StaticProvider Providers }\n \* that are expected to be available from the returned `NgModuleRef`'s `Injector`.\n \*\n \* `downgradeModule()` returns the name of the created AngularJS wrapper module. You can use it to\n \* declare a  
dependency in your main AngularJS module.\n \*\n \* { @example upgrade/static/ts/lite/module.ts region=\"basic-  
how-to\" }\n \*\n \* For more details on how to use `downgradeModule()` see\n \* [Upgrading for  
Performance](guide/upgrade-performance).\n \*\n \* @usageNotes\n \*\n \* Apart from `UpgradeModule`, you can use  
the rest of the `upgrade/static` helpers as usual to\n \* build a hybrid application. Note that the Angular pieces (e.g.  
downgraded services) will not be\n \* available until the downgraded module has been bootstrapped, i.e. by  
instantiating a downgraded\n \* component.\n \*\n \* <div class=\"alert is-important\">\n \*\n \* You cannot use  
`downgradeModule()`  
and `UpgradeModule` in the same hybrid application.<br />\n \* Use one or the other.\n \*\n \* </div>\n \*\n \* ###  
Differences with `UpgradeModule`\n \*\n \* Besides their different API, there are two important internal differences  
between\n \* `downgradeModule()` and `UpgradeModule` that affect the behavior of hybrid applications:\n \*\n \* 1.  
Unlike `UpgradeModule`, `downgradeModule()` does not bootstrap the main AngularJS module\n \* inside the  
{ @link NgZone Angular zone }. \n \* 2. Unlike `UpgradeModule`, `downgradeModule()` does not automatically run  
a\n \* [\$digest()](https://docs.angularjs.org/api/ng/type/\$rootScope.Scope#\$digest) when changes are\n \* detected in the Angular part of the application.\n \*\n \* What this means is that applications using `UpgradeModule`  
will run change detection more\n \* frequently in order to ensure that both frameworks are properly notified about  
possible changes.\n \*\n \* This will inevitably result in more change detection runs than necessary.\n \*\n \* `downgradeModule()`, on the other side, does not try to tie the two change detection systems as\n \* tightly,  
restricting the explicit change detection runs only to cases where it knows it is\n \* necessary (e.g. when the inputs of  
a downgraded component change). This improves performance,\n \* especially in change-detection-heavy  
applications, but leaves it up to the developer to manually\n \* notify each framework as needed.\n \*\n \* For a more  
detailed discussion of the differences and their implications, see\n \* [Upgrading for Performance](guide/upgrade-  
performance).\n \*\n \* <div class=\"alert is-helpful\">\n \*\n \* You can manually trigger a change detection run in  
AngularJS using\n \* [scope.\$apply(...)](https://docs.angularjs.org/api/ng/type/\$rootScope.Scope#\$apply) or\n \*

[\[rootScope.\\$digest\(\)\]](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest)([https://docs.angularjs.org/api/ng/type/\\$rootScope.Scope#\\$digest](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest)). You can manually trigger a change detection run in Angular using `{ @link NgZone#run ngZone.run(...) }`.

**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 `{ @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:
 

```

      @example upgrade/static/ts/lite-multi-shared/module.ts region="shared-root-module"
      @publicApi
      ^\nexport function downgradeModule<T>(
        moduleFactoryOrBootstrapFn:
        NgModuleFactory<T> |
        ((extraProviders: StaticProvider[]) => Promise<NgModuleRef<T>>)): string {
        const lazyModuleName = `${UPGRADE_MODULE_NAME}.lazy${++moduleId}`;
        const lazyModuleRefKey =
        `${LAZY_MODULE_REF}${lazyModuleName}`;
        const lazyInjectorKey =
        `${INJECTOR_KEY}${lazyModuleName}`;
        const bootstrapFn = isFunction(moduleFactoryOrBootstrapFn)
        ? moduleFactoryOrBootstrapFn :
        (extraProviders: StaticProvider[]) =>
        platformBrowser(extraProviders).bootstrapModuleFactory(moduleFactoryOrBootstrapFn);
        let injector:
        Injector;
        // Create an ng1 module to bootstrap.
        angularModule(lazyModuleName, [])
        .constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Lite)
        .factory(INJECTOR_KEY,
        [lazyInjectorKey, identity])
        .factory(
        lazyInjectorKey,
        () => {
        if (!injector) {
        throw new Error(
        'Trying to get the Angular injector before bootstrapping the corresponding ' +
        'Angular module.');

```

```

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);
  }

  static getDirective($injector: IInjectorService, name:
  string): IDirective {
    const directives: IDirective[] = $injector.get(name + 'Directive');
    if (directives.length >
    1) {
      throw new Error('Only support single directive definition for: ${name}');
    }
    const directive =
    directives[0];
    // AngularJS will transform `link: xyz` to `compile: () => xyz`. So we can only tell there was a
    // user-defined `compile` if there is no `link`. In other
    cases, we will just ignore `compile`.
    if (directive.compile && !directive.link) notSupported(name, 'compile');
    if (directive.replace) notSupported(name, 'replace');
    if (directive.terminal) notSupported(name, 'terminal');
    return directive;
  }

  static getTemplate(
    $injector: IInjectorService, directive: IDirective,
    fetchRemoteTemplate = false,
    $element?: IAugmentedJQuery): string|Promise<string> {
    if
    (directive.template !== undefined) {
      return getOrCall<string>(directive.template, $element);
    } else if
    (directive.templateUrl) {
      const $templateCache = $injector.get($TEMPLATE_CACHE) as
      ITemplateCacheService;
      const url = getOrCall<string>(directive.templateUrl, $element);
      const template =
      $templateCache.get(url);
      if (template !== undefined) {
        return template;
      } else if
      (!fetchRemoteTemplate) {
        throw new Error('loading directive templates asynchronously is not supported');
      }
    }

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

```

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 }; 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\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\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\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 $template.forEach(node => {\n if (node.nodeType ===
Node.TEXT_NODE && !node.nodeValue) {\n node.nodeValue = "\u200C";\n }\n });\n\n return
attachChildrenFn;\n }\n\n resolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) {\n
const directiveRequire = this.getDirectiveRequire();\n const
requiredControllers = this.resolveRequire(directiveRequire);\n\n if (controllerInstance &&
this.directive.bindToController && isMap(directiveRequire)) {\n const requiredControllersMap =
requiredControllers as {[key: string]: IControllerInstance};\n Object.keys(requiredControllersMap).forEach(key
=> {\n controllerInstance[key] = requiredControllersMap[key];\n });\n }\n\n return requiredControllers;\n
}\n\n private compileHtml(html: string): ILinkFn {\n this.element.innerHTML = html;\n return
this.$compile(this.element.childNodes);\n }\n\n private extractChildNodes(): Node[] {\n const childNodes:
Node[] = [];\n let childNode: Node|null;\n while (childNode = this.element.firstChild) {\n
this.element.removeChild(childNode);\n childNodes.push(childNode);\n }\n\n return childNodes;\n }\n\n
private getDirectiveRequire(): DirectiveRequireProperty {\n const require = this.directive.require ||
(this.directive.controller
&& this.directive.name) !;\n\n if (isMap(require)) {\n Object.keys(require).forEach(key => {\n const
value = require[key];\n const match = value.match(REQUIRE_PREFIX_RE) !;\n const name =
value.substring(match[0].length);\n\n if (!name) {\n require[key] = match[0] + key;\n }\n });\n
}\n\n return require;\n }\n\n private resolveRequire(require: DirectiveRequireProperty, controllerInstance?:
any): SingleOrListOrMap<IControllerInstance>|null {\n if (!require) {\n return null;\n } else if
(Array.isArray(require)) {\n return require.map(req => this.resolveRequire(req));\n } else if (typeof require
=== 'object') {\n const value: {[key: string]: IControllerInstance} = {};\n Object.keys(require).forEach(key =>
value[key] = this.resolveRequire(require[key]) !);\n return value;\n } else if (typeof require === 'string') {\n

```

```

const match = require.match(REQUIRE_PREFIX_RE) !;\n    const
inheritType = match[1] || match[3];\n    const name = require.substring(match[0].length);\n    const isOptional =
!!match[2];\n    const searchParents = !!inheritType;\n    const startOnParent = inheritType === '^';\n    const
ctrlKey = controllerKey(name);\n    const elem = startOnParent ? this.$element.parent !() : this.$element;\n
const value = searchParents ? elem.inheritedData !(ctrlKey) : elem.data !(ctrlKey);\n    if (!value && !isOptional)
{\n    throw new Error(\n        `Unable to find required '${require}' in upgraded directive '${this.name}'.`);\n
}\n    return value;\n } else {\n    throw new Error(\n        `Unrecognized 'require' syntax on upgraded
directive '${this.name}': ${require}`);\n } }\n\nfunction getOrCall<T>(property: T | Function, ...args: any[]):
T {\n    return isFunction(property) ? property(...args) : property;\n}\n\n// NOTE: Only works for `typeof T !==
'object'.\nfunction isMap<T>(value: SingleOrListOrMap<T>):
value is {[key: string]: T} {\n    return value && !Array.isArray(value) && typeof value === 'object';\n}\n\nfunction
notSupported(name: string, feature: string) {\n    throw new Error(`Upgraded directive '${name}' contains
unsupported feature: '${feature}'.`);\n}\n\n"/**\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 */\nimport { DoCheck, ElementRef, EventEmitter, Injector, OnChanges, OnDestroy,
OnInit, SimpleChanges, ÉulooseIdentical as looseIdentical } from '@angular/core';\nimport { IAttributes,
IAugmentedJQuery, IDirectivePrePost, IInjectorService, ILinkFn, IScope, ITranscludeFunction } from
'././src/common/src/angular1';\nimport { $SCOPE } from '././src/common/src/constants';\nimport
{ IBindingDestination, IControllerInstance, UpgradeHelper } from '././src/common/src/upgrade_helper';\nimport
{ isFunction }
from '././src/common/src/util';\n\nconst NOT_SUPPORTED: any = 'NOT_SUPPORTED';\n\nconst
INITIAL_VALUE = {\n    __UNINITIALIZED__: true\n};\n\nclass Bindings {\n    twoWayBoundProperties: string[]
= [];\n    twoWayBoundLastValues: any[] = [];\n    expressionBoundProperties: string[] = [];\n    propertyToOutputMap: {[propName: string]: string} = {};\n}\n\n/**\n * @description\n *\n * A helper class that
allows an AngularJS component to be used from Angular.\n *\n * *Part of the
[upgrade/static](api?query=upgrade%2Fstatic)\n * library for hybrid upgrade apps that support AOT
compilation.\n *\n * * This helper class should be used as a base class for creating Angular directives\n * that wrap
AngularJS components that need to be `upgraded`.\n *\n * * @usageNotes\n * ### Examples\n *\n * Let's assume
that you have an AngularJS component called `ng1Hero` that needs\n * to be made available in Angular templates.\n
*\n * * @example upgrade/static/ts/full/module.ts region=`ng1-hero`}\n *\n * We must
create a `Directive` that will make this AngularJS component\n * available inside Angular templates.\n *\n *
*\n * @example upgrade/static/ts/full/module.ts region=`ng1-hero-wrapper`}\n *\n * In this example you can see that
we must derive from the `UpgradeComponent`\n * base class but also provide an { @link Directive `@Directive` }
decorator. This is\n * because the AOT compiler requires that this information is statically available at\n * compile
time.\n *\n * * Note that we must do the following:\n * * * specify the directive's selector (`ng1-hero`)\n * * * specify all
inputs and outputs that the AngularJS component expects\n * * * derive from `UpgradeComponent`\n * * * call the base
class from the constructor, passing\n * * * the AngularJS name of the component (`ng1Hero`)\n * * * the
`ElementRef` and `Injector` for the component wrapper\n *\n * * @publicApi\n */\nexport class UpgradeComponent
implements OnInit, OnChanges, DoCheck, OnDestroy {\n    private helper: UpgradeHelper;\n    private $injector:
IInjectorService;\n    private element: Element;\n    private $element: IAugmentedJQuery;\n    private
$scope: IScope;\n    private directive: IDirective;\n    private bindings: Bindings;\n\n //
TODO(issue/24571): remove '!.\n    private controllerInstance !: IControllerInstance;\n // TODO(issue/24571):
remove '!.\n    private bindingDestination !: IBindingDestination;\n\n // We will be instantiating the controller in the
`ngOnInit` hook, when the\n // first `ngOnChanges` will have been already triggered. We store the\n //
`SimpleChanges` and `play them back` later.\n // TODO(issue/24571): remove '!.\n    private pendingChanges !:
SimpleChanges | null;\n\n // TODO(issue/24571): remove '!.\n    private unregisterDoCheckWatcher !: Function;\n\n
/**\n * Create a new `UpgradeComponent` instance. You should not normally need to do this.\n * Instead you
should derive a new class from this one and call the super constructor\n * from the base class.\n *\n *

```

```

{ @example upgrade/static/ts/full/module.ts
  region="ng1-hero-wrapper" } \n
  * \n
  * * The `name` parameter should be the name of the AngularJS directive. \n
  * * The `elementRef` and `injector` parameters should be acquired from Angular by dependency \n
  * injection into the base class constructor. \n
  * / \n
  constructor(private name: string, private elementRef: ElementRef, private
injector: Injector) { \n
  this.helper = new UpgradeHelper(injector, name, elementRef); \n
  this.$injector =
this.helper.$injector; \n
  this.element = this.helper.element; \n
  this.$element = this.helper.$element; \n
  this.directive = this.helper.directive; \n
  this.bindings = this.initializeBindings(this.directive); \n
  // We ask for the
AngularJS scope from the Angular injector, since \n
  // we will put the new component scope onto the new injector
for each component \n
  const $parentScope = injector.get($SCOPE); \n
  // QUESTION 1: Should we create an
isolated scope if the scope is only true? \n
  // QUESTION 2: Should we make the scope accessible through ` $element.scope()/isolateScope()`? \n
  this.$componentScope = $parentScope.$new(!this.directive.scope); \n
  this.initializeOutputs(); \n
} \n
  ngOnInit() { \n
  // Collect contents, insert and compile template \n
  const attachChildNodes: ILinkFn|undefined =
this.helper.prepareTransclusion(); \n
  const linkFn = this.helper.compileTemplate(); \n
  // Instantiate controller \n
  const controllerType = this.directive.controller; \n
  const bindToController = this.directive.bindToController; \n
  if
(controllerType) { \n
  this.controllerInstance = this.helper.buildController(controllerType,
this.$componentScope); \n
  } else if (bindToController) { \n
  throw new Error(\n
    `Upgraded directive
'${this.directive.name}' specifies 'bindToController' but no controller.`); \n
  } \n
  // Set up outputs \n
  this.bindingDestination = bindToController ? this.controllerInstance : this.$componentScope; \n
  this.bindOutputs(); \n
  // Require other controllers \n
  const requiredControllers = \n
this.helper.resolveAndBindRequiredControllers(this.controllerInstance); \n
  // Hook: $onChanges \n
  if
(this.pendingChanges) { \n
  this.forwardChanges(this.pendingChanges); \n
  this.pendingChanges = null; \n
  } \n
  // Hook: $onInit \n
  if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) { \n
  this.controllerInstance.$onInit(); \n
  } \n
  // Hook: $doCheck \n
  if (this.controllerInstance &&
isFunction(this.controllerInstance.$doCheck)) { \n
  const callDoCheck = () => this.controllerInstance.$doCheck
!(); \n
  this.unregisterDoCheckWatcher = this.$componentScope.$parent.$watch(callDoCheck); \n
  callDoCheck(); \n
  } \n
  // Linking \n
  const link = this.directive.link; \n
  const preLink = typeof link == 'object'
&& link.pre; \n
  const postLink = typeof link == 'object' ? link.post : link; \n
  const attrs: IAttributes =
NOT_SUPPORTED; \n
  const
transcludeFn: ITranscludeFunction = NOT_SUPPORTED; \n
  if (preLink) { \n
  preLink(this.$componentScope,
this.$element, attrs, requiredControllers, transcludeFn); \n
  } \n
  linkFn(this.$componentScope, null !,
{parentBoundTranscludeFn: attachChildNodes}); \n
  if (postLink) { \n
  postLink(this.$componentScope,
this.$element, attrs, requiredControllers, transcludeFn); \n
  } \n
  // Hook: $postLink \n
  if (this.controllerInstance
&& isFunction(this.controllerInstance.$postLink)) { \n
  this.controllerInstance.$postLink(); \n
  } \n
  } \n
  ngOnChanges(changes: SimpleChanges) { \n
  if (!this.bindingDestination) { \n
  this.pendingChanges = changes; \n
  } else { \n
  this.forwardChanges(changes); \n
  } \n
  } \n
  ngDoCheck() { \n
  const twoWayBoundProperties =
this.bindings.twoWayBoundProperties; \n
  const twoWayBoundLastValues =
this.bindings.twoWayBoundLastValues; \n
  const propertyToOutputMap =
this.bindings.propertyToOutputMap; \n
  twoWayBoundProperties.forEach((propName,
idx) => { \n
  const newValue = this.bindingDestination[propName]; \n
  const oldValue =
twoWayBoundLastValues[idx]; \n
  if (!looseIdentical(newValue, oldValue)) { \n
  const outputName =
propertyToOutputMap[propName]; \n
  const eventEmitter: EventEmitter<any> = (this as any)[outputName]; \n
  eventEmitter.emit(newValue); \n
  twoWayBoundLastValues[idx] = newValue; \n
  } \n
  }); \n
  } \n
  ngOnDestroy() { \n
  if (isFunction(this.unregisterDoCheckWatcher)) { \n
  this.unregisterDoCheckWatcher(); \n
  } \n
  this.helper.onDestroy(this.$componentScope, this.controllerInstance); \n
  } \n
  private
initializeBindings(directive: IDirective) { \n
  const btcIsObject = typeof directive.bindToController === 'object'; \n
  if (btcIsObject && Object.keys(directive.scope !).length) { \n
  throw new Error(\n
    `Binding definitions on

```



```

scope and controller at the same time is not supported.});\n }\n\n const context = btcIsObject ?
directive.bindToController
: directive.scope;\n const bindings = new Bindings();\n\n if (typeof context == 'object') {\n
Object.keys(context).forEach(propName => {\n const definition = context[propName];\n const
bindingType = definition.charAt(0);\n\n // QUESTION: What about `=*`? Ignore? Throw? Support?\n\n
switch (bindingType) {\n case '@':\n case '<':\n // We don't need to do anything special. They will
be defined as inputs on the\n // upgraded component facade and the change propagation will be handled by\n
// `ngOnChanges`.\n break;\n case '=':\n
bindings.twoWayBoundProperties.push(propName);\n
bindings.twoWayBoundLastValues.push(INITIAL_VALUE);\n bindings.propertyToOutputMap[propName]
= propName + 'Change';\n break;\n case '&':\n
bindings.expressionBoundProperties.push(propName);\n bindings.propertyToOutputMap[propName]
= propName;\n break;\n default:\n let json = JSON.stringify(context);\n throw new
Error(\n `Unexpected mapping '${bindingType}' in '${json}' in '${this.name}' directive.`);\n }\n
});\n }\n\n return bindings;\n }\n\n private initializeOutputs() {\n // Initialize the outputs for `=` and `&`
bindings\n this.bindings.twoWayBoundProperties.concat(this.bindings.expressionBoundProperties)\n
.forEach(propName => {\n const outputName = this.bindings.propertyToOutputMap[propName];\n (this
as any)[outputName] = new EventEmitter();\n });\n }\n\n private bindOutputs() {\n // Bind `&` bindings to
the corresponding outputs\n this.bindings.expressionBoundProperties.forEach(propName => {\n const
outputName = this.bindings.propertyToOutputMap[propName];\n const emitter = (this as any)[outputName];\n\n
this.bindingDestination[propName] = (value:
any) => emitter.emit(value);\n });\n }\n\n private forwardChanges(changes: SimpleChanges) {\n // Forward
input changes to `bindingDestination`\n Object.keys(changes).forEach(\n propName =>
this.bindingDestination[propName] = changes[propName].currentValue);\n\n if
(isFunction(this.bindingDestination.$onChanges)) {\n this.bindingDestination.$onChanges(changes);\n }\n
})\n\n", "/*\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is
governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n
*/\n\nimport {Injector, NgModule, NgZone, Testability, isDevMode} from '@angular/core';\n\nimport
{IInjectorService, IIntervalService, IProvideService, ITestabilityService, bootstrap, element as angularElement,
module_ as angularModule} from '../src/common/src/angular1';\n\nimport {$$TESTABILITY, $DELEGATE,
$INJECTOR, $INTERVAL, $PROVIDE, INJECTOR_KEY, LAZY_MODULE_REF,
UPGRADE_APP_TYPE_KEY,
UPGRADE_MODULE_NAME} from '../src/common/src/constants';\n\nimport {LazyModuleRef,
UpgradeAppType, controllerKey} from '../src/common/src/util';\n\nimport {angular1Providers,
setTempInjectorRef} from './angular1_providers';\n\nimport {NgAdapterInjector} from './util';\n\n\n/**\n *
@description\n *\n * An `NgModule`, which you import to provide AngularJS core services,\n * and has an instance
method used to bootstrap the hybrid upgrade application.\n *\n * *Part of the
[upgrade/static](api?query=upgrade/static)\n * library for hybrid upgrade apps that support AOT compilation*\n *\n
* The `upgrade/static` package contains helpers that allow AngularJS and Angular components\n * to be used
together inside a hybrid upgrade application, which supports AOT compilation.\n *\n * Specifically, the classes and
functions in the `upgrade/static` module allow the following:\n *\n * 1. Creation of an Angular directive that wraps
and exposes an AngularJS component so\n * that it can be
used in an Angular template. See `UpgradeComponent`.\n *\n * 2. Creation of an AngularJS directive that wraps and
exposes an Angular component so\n * that it can be used in an AngularJS template. See
`downgradeComponent`.\n *\n * 3. Creation of an Angular root injector provider that wraps and exposes an AngularJS\n
* service so that it can be injected into an Angular context. See\n * {@link UpgradeModule#upgrading-angular-1-service
Upgrading an AngularJS service} below.\n *\n * 4. Creation of an AngularJS service that wraps and
exposes an Angular injectable\n * so that it can be injected into an AngularJS context. See

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`downgradeInjectable`.\n * 3. Bootstrapping of a hybrid Angular application which contains both of the frameworks\n * coexisting in a single application.\n *\n * @usageNotes\n *\n * ``\n *\n * import {UpgradeModule} from '@angular/upgraded/static';\n *\n * See also the { @link UpgradeModule#examples examples } below.\n *\n * ### Mental Model\n *\n * When reasoning about how a hybrid application works it is useful to have a mental model which\n * describes what is happening and explains what is happening at the lowest level.\n *\n * 1. There are two independent frameworks running in a single application, each framework treats\n * the other as a black box.\n * 2. Each DOM element on the page is owned exactly by one framework. Whichever framework\n * instantiated the element is the owner. Each framework only updates/interacts with its own\n * DOM elements and ignores others.\n * 3. AngularJS directives always execute inside the AngularJS framework codebase regardless of\n * where they are instantiated.\n * 4. Angular components always execute inside the Angular framework codebase regardless of\n * where they are instantiated.\n * 5. An AngularJS component can be "upgraded" to an Angular component. This is achieved by\n * defining an Angular directive, which bootstraps the AngularJS component at its location\n * in the DOM. See `UpgradeComponent`.\n * 6. An Angular component can be "downgraded" to an AngularJS component. This is achieved by\n * defining an AngularJS directive, which bootstraps the Angular component at its location\n * in the DOM. See `downgradeComponent`.\n * 7. Whenever an "upgraded"/"downgraded" component is instantiated the host element is owned by\n * the framework doing the instantiation. The other framework then instantiates and owns the\n * view for that component.\n * 1. This implies that the component bindings will always follow the semantics of the\n * instantiation framework.\n * 2. The DOM attributes are parsed by the framework that owns the current template. So\n * attributes in AngularJS templates must use kebab-case, while AngularJS templates must use\n * camelCase.\n * 3. However the template binding syntax will always use the Angular style, e.g. square\n * brackets ([...]) for property binding.\n * 8. Angular is bootstrapped first; AngularJS is bootstrapped second. AngularJS always owns the\n * root component of the application.\n * 9. The new application is running in an Angular zone, and therefore it no longer needs calls to\n * `$.apply()`.\n *\n * ### The `UpgradeModule` class\n *\n * This class is an `NgModule`, which you import to provide AngularJS core services,\n * and has an instance method used to bootstrap the hybrid upgrade application.\n *\n * * Core AngularJS services\n * Importing this `NgModule` will add providers for the core\n * [AngularJS services](https://docs.angularjs.org/api/ng/service) to the root injector.\n *\n * * Bootstrap\n * The runtime instance of this class contains a { @link UpgradeModule#bootstrap bootstrap() }\n * method, which you use to bootstrap the top level AngularJS module onto an element in the\n * DOM for the hybrid upgrade app.\n *\n * It also contains properties to access the { @link UpgradeModule#injector root injector }, the\n * bootstrap `NgZone` and the\n * [AngularJS $injector](https://docs.angularjs.org/api/auto/service/$injector).\n *\n * ### Examples\n *\n * Import the `UpgradeModule` into your top level { @link NgModule Angular `NgModule` }.\n *\n * { @example upgrade/static/ts/full/module.ts region='ng2-module'}\n *\n * Then inject `UpgradeModule` into your Angular `NgModule` and use it to bootstrap the top level\n * [AngularJS module](https://docs.angularjs.org/api/ng/type/angular.Module) in the\n * `ngDoBootstrap()` method.\n *\n * { @example upgrade/static/ts/full/module.ts region='bootstrap-ng1'}\n *\n * Finally, kick off the whole process, by bootstrapping your top level Angular `NgModule`.\n *\n * { @example upgrade/static/ts/full/module.ts region='bootstrap-ng2'}\n *\n * { @a upgrading-an-angular-1-service}\n *\n * ### Upgrading an AngularJS service\n *\n * There is no specific API for upgrading an AngularJS service. Instead you should just follow the\n * following recipe:\n *\n * Let's say you have an AngularJS service:\n *\n * { @example upgrade/static/ts/full/module.ts region='ng1-text-formatter-service'}\n *\n * Then you should define an Angular provider to be included in your `NgModule` `providers`\n * property.\n *\n * { @example upgrade/static/ts/full/module.ts region='upgrade-ng1-service'}\n *\n * Then you can use the "upgraded" AngularJS service by injecting it into an Angular component\n * or service.\n *\n * { @example upgrade/static/ts/full/module.ts region='use-ng1-upgraded-service'}\n *\n * @publicApi\n *\n * /n\n * @NgModule({providers: [angular1Providers]})\n * export class UpgradeModule {\n * /**\n * The AngularJS`

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`$injector` for the upgrade application.\n  */\n  public $injector: any /*angular.IInjectorService*/;\n  /** The
Angular Injector **/\n  public injector: Injector;\n\n  constructor(\n    /** The root `Injector` for the upgrade
application. */\n    injector: Injector,\n    /** The bootstrap zone for the upgrade application */\n    public
ngZone: NgZone) {\n
    this.injector = new NgAdapterInjector(injector);\n  }\n\n  /**\n   * Bootstrap an AngularJS application from this
NgModule\n   * @param element the element on which to bootstrap the AngularJS application\n   * @param
[modules] the AngularJS modules to bootstrap for this application\n   * @param [config] optional extra AngularJS
bootstrap configuration\n   */\n  bootstrap(\n    element: Element, modules: string[] = [], config?: any
/*angular.IAngularBootstrapConfig*/) {\n    const INIT_MODULE_NAME = UPGRADE_MODULE_NAME +
'.init';\n\n    // Create an ng1 module to bootstrap\n    const initModule =\n    angularModule(INIT_MODULE_NAME, [])\n      .constant(UPGRADE_APP_TYPE_KEY,
UpgradeAppType.Static)\n      .value(INJECTOR_KEY, this.injector)\n      .factory(\n
LAZY_MODULE_REF,\n        [INJECTOR_KEY, (injector: Injector) => ({ injector } as
LazyModuleRef)])\n      .config([\n        $PROVIDE, $INJECTOR,\n        ($provide:
IProvideService, $injector: IInjectorService) => {\n          if ($injector.has($$TESTABILITY)) {\n
$provide.decorator($$TESTABILITY, [\n            $DELEGATE,\n            (testabilityDelegate:
ITestabilityService) => {\n              const originalWhenStable: Function = testabilityDelegate.whenStable;\n
              const injector = this.injector;\n              // Cannot use arrow function below because we need the
context\n              const newWhenStable = function(callback: Function) {\n
originalWhenStable.call(testabilityDelegate, function() {\n                  const ng2Testability: Testability =
injector.get(Testability);\n                  if (ng2Testability.isStable()) {\n                      callback();\n
                  } else {\n                      ng2Testability.whenStable(\n
newWhenStable.bind(testabilityDelegate,
callback));\n                  });\n                  });\n                  testabilityDelegate.whenStable
= newWhenStable;\n                  return testabilityDelegate;\n                  });\n                  });\n
                }\n            });\n          }\n        },\n        ($provide.decorator($INTERVAL, [\n            $DELEGATE,\n
(intervalDelegate: IIntervalService) => {\n              // Wrap the $interval service so that setInterval is
called outside NgZone,\n              // but the callback is still invoked within it. This is so that $interval\n
              // won't block stability, which preserves the behavior from AngularJS.\n              let wrappedInterval =\n              (fn: Function, delay: number, count?: number, invokeApply?: boolean,\n              ...pass: any[])
=> {\n
                return this.ngZone.runOutsideAngular(() => {\n                  return intervalDelegate(...args: any[]) =>
{\n                    // Run callback in the next VM turn - $interval calls\n                    //
$rootScope.$apply, and running the callback in NgZone will\n                    // cause a '$digest already in
progress' error if it's in the\n                    // same vm turn.\n                    setTimeout(() => {\n
this.ngZone.run(() => fn(...args)); });\n                    }, delay, count, invokeApply, ...pass);\n
                });\n              });\n              (wrappedInterval as any)['cancel'] = intervalDelegate.cancel;\n
              return wrappedInterval;\n              });\n              });\n              });\n              });\n
            }]\n          ).run([\n            $INJECTOR,\n            ($injector: IInjectorService)
=> {\n              this.$injector = $injector;\n              // Initialize the ng1 $injector provider\n
              setTempInjectorRef($injector);\n              this.injector.get($INJECTOR);\n              // Put the injector on the
DOM, so that it can be \"required\"\n              angularElement(element).data !(controllerKey(INJECTOR_KEY),
this.injector);\n              // Wire up the ng1 rootScope to run a digest cycle whenever the zone settles\n              //
We need to do this in the next tick so that we don't prevent the bootup\n              // stabilizing\n
              setTimeout(() => {\n                const $rootScope = $injector.get('$rootScope');\n                const subscription =
this.ngZone.onMicrotaskEmpty.subscribe(() => {\n                  if ($rootScope.$$phase) {\n                      if
(isDevMode()) {\n                          console.warn(\n                            'A digest was triggered while one was already

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in progress. This may mean that something is triggering digests outside the Angular zone.);\n
    return $rootScope.$evalAsync();\n    }\n    return $rootScope.$digest();\n
});\n    $rootScope.$on('$destroy', () => { subscription.unsubscribe(); });\n    }, 0);\n
]);\n    const upgradeModule = angularModule(UPGRADE_MODULE_NAME,\n[INIT_MODULE_NAME].concat(modules));\n    // Make sure resumeBootstrap() only exists if the current\nbootstrap is deferred\n    const windowAngular = (window as any)['angular'];\n    windowAngular.resumeBootstrap\n= undefined;\n    // Bootstrap the AngularJS application inside our zone\n    this.ngZone.run(() => {\nbootstrap(element, [upgradeModule.name], config); });\n    // Patch resumeBootstrap() to run inside the ngZone\nif (windowAngular.resumeBootstrap) {\n    const originalResumeBootstrap: () => void\n= windowAngular.resumeBootstrap;\n    const ngZone = this.ngZone;\n    windowAngular.resumeBootstrap =\nfunction() {\n    let args = arguments;\n    windowAngular.resumeBootstrap = originalResumeBootstrap;\nreturn ngZone.run(() => windowAngular.resumeBootstrap.apply(this, args));\n    };\n    }\n}\n}\n}"/**\n *\nGenerated bundle index. Do not edit.\n */\nexport * from './index';\nexport {angular1Providers as\nÉµangular_packages_upgrade_static_static_e,compileFactory as\nÉµangular_packages_upgrade_static_static_c,injectorFactory as\nÉµangular_packages_upgrade_static_static_a,parseFactory as\nÉµangular_packages_upgrade_static_static_d,rootScopeFactory as Éµangular_packages_upgrade_static_static_b}\nfrom\n\n './src/angular1_providers';\n};\n\nnames":["NOT_FOUND_CHECK_ONLY_ELEMENT_INJECTOR","angularModule\n","angularElement","INITIAL_VALUE","looseIdentical","element"],\n\nmappings:";;;;;;;;;AAAA;;;;;;;;;AA0NA,SAAS,IAAI;IACX,MAAM,IAAI,KAAC,CAAC,+BAA+B,CAAC,CAAC;CACID;AAED,MAAM,WAAW,IAA4B,MAAM,IAAI,EAAE,CAAQ,CAAC;AACIE,WAAW,CAAC,SAAS,GAAG,IAAI,CAAC;AAE7B,IAAI,OAAO,GAYP;IACF,SAAS,EAAE,IAAI;IACf,MAAM,EAAE,IAAI;IACZ,OAAO,EAAE,WAAW;IACpB,QAAQ,EAAE,IAAI;IACd,OAAO,EAAE,SAAGB;IACzB,eAAe,EAAE,IAAI;IACrB,cAAc,EAAE,IAAI;CACrB,CAAC;AAEF,IAAI;IACF,IAAI,MAAM,CAAC,cAAc,CAAC,SAAS,CAAC,EAAE;QACpC,OAAO,GAAS,MAAO,CAAC,OAAO,CAAC;KACjC;CACF;AAAC,WAAW;;CAEP;;;;;;;;;AAOD,SAAGB,aAAa,CAAC,EAAO;IACnC,kBAaKB,CAAC,EAAE,CAAC,CAAC;CACxB;;;;;;;;;AAOD,SAAGB,aAAa;IAC3B,OAAO,kBAaKB,EAAE,CAAC;CAC7B;;;;;;;;;AASD,SAAGB,kBAaKB,CAAC,EAAO;IACxC,OAAO,GAAG,EAAE,CAAC;CACd;;;;;;;;;AAOD,SAAGB,kBAaKB;IAChC,OAAO,OAAO,CAAC;CACHB;AAED,AAAO,MAAM,SAAS,GAA6B,CAAC,CAAC,EAAE,OAAO,EAAE,MAAO,KACnE,OAAO,CAAC,SAAS,CAAC,CAAC,EAAE,OAAO,EAAE,MAAM,CAAC,CAAC;;AAI1C,AAAO,MAAM,OAAO,GAA0B,CAAC,MAAM,EAAE,YAAa,KACHe,OAAO,CAAC,MAAM,CAAC,MAAM,EAAE,YAAY,CAAC,CAAC;AAEzC,AAAO,MAAM,OAAO,IAA4B,CAAC,IAAI,OAAO,CAAC,OAAO,CAAC,CAAC,CAA2B,CAAC;AACnG,OAAO,CAAC,SAAS,GAAG,KAAC,IAAI,OAAO,CAAC,OAAO,CAAC,SAAS,CAAC,KAAC,CAAC,CAAC;AAE9D,AAAO,MAAM,QAAQ,GACjB,CAAC,OAAkC,EAAE,QAAkB,KAAC,OAAO,CAAC,QAAQ,CAAC,OAAO,EAAE,QAAQ,CAAC,CAAC;AAEpG,AAAO,MAAM,eAAe,GAAmC,MAAM,OAAO,CAAC,eAAe,EAAE,CAAC;AAE/F,AAAO,MAAM,cAAc,GAAkC,CAAC,IAAI,OAAO,CAAC,cAAc,CAAC,CAAC,CAAC;AACrT5F;;;;;;;;;AAQA,AAAO,MAAM,QAAQ,GAAG,UAAU,CAAC;AACnC,AAAO,MAAM,WAAW,GAAAG,aAAa,CAAC;AACzC,AAAO,MAAM,SAAS,GAAG,WAAW,CAAC;AACrC,AAAO,MAAM,kBAaKB,GAAG,mBAAmB,CAAC;AACtD,AAAO,MAAM,aAAa,GAAG,cAAc,CAAC;AAC5C,AAAO,MAAM,SAAS,GAAG,WAAW,CAAC;AACrC,AAAO,MAAM,SAAS,GAAG,WAAW,CAAC;AACrC,AAAO,MAAM,MAAM,GAAG,QAAQ,CAAC;AAC/B,AAAO,MAAM,QAAQ,GAAG,UAAU,CAAC;AACnC,AAAO,MAAM,WAAW,GAAG,YAAY,CAAC;AACxC,AAAO,MAAM,MAAM,GAAG,QAAQ,CAAC;AAC/B,AAAO,MAAM,eAAe,GAAG,gBAAGB,C AAC;AAChD,AAAO,MAAM,iBAaIB,GAAG,kBAaKB,CAAC;AAEpD,AAAO,MAAM,aAAa,GAAG,eAAe,CAAC;AAE7C,AAAO,MAAM,YAAY,GAAG,mBAAmB,CAAC;AACChD,AAAO,MAAM,2BAA2B,GAAG,gCAAGC,CAAC;AAC5E,AAAO,MAAM,2BAA2B,GAAG,gCAAGC,CAAC;AAC5E,AAAO,MAAM,YAAY,GAAG,mBAAmB,CAAC;AACChD,AAAO,MAAM,eAAe,GAAG,wBAAwB,CAAC;AACxD,AAAO,MAAM,WAAW,GAAG,iBAaIB,CAAC;AAC7C,AAAO,MAAM,oBAaOB,GAAG,yBAAYB,CAAC;AAE9D,AAAO,MAAM,gBAAGB,GAAG,KAAC,GAAG,YAAY,CAAC;AACrD,AAAO,MAAM,gBAAGB,GAAG,UAAU,CAAC;AAE3C,AAAO,MAA

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zip/fesm2015/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

\*/

Found in path(s):

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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  
*/
```

```
/**
```

```
* @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  
*/
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No license file was found, but licenses were detected in source scan.

Angular

=====

The sources for this package are in the main [Angular](<https://github.com/angular/angular>) repo. Please file issues and pull requests against that repo.

Usage information and reference details can be found in [Angular documentation](<https://angular.io/docs>).

License: MIT

Found in path(s):

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 * @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 */\n * @module\n *
 @description\n * Entry point for all public APIs of the common package.\n *\n\nimport { Version } from
 '@angular/core';\n\n/**\n * @publicApi\n */\nexport const VERSION = new Version('9.0.7');\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\nexport type Ng1Token =
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{\n // Older versions of `@types/angular` typings extend the global `Function` interface with\n // `$inject?:
string[]`, which is not compatible with `$inject?: ReadonlyArray<string>` (used in\n //
latest versions).\n $inject?: Function extends {$inject?: string[]}? Ng1Token[];
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SingleOrListOrMap<string>;\n\nexport type DirectiveTranscludeProperty = boolean | 'element' | {[key: string]:
string};\n\nexport interface IDirectiveCompileFn {\n (templateElement: IAugmentedJQuery, templateAttributes:
IAttributes,\n transclude: ITranscludeFunction): IDirectivePrePost;\n}\n\nexport interface IDirectivePrePost {\n
pre?: IDirectiveLinkFn;\n post?: IDirectiveLinkFn;\n}\n\nexport interface IDirectiveLinkFn {\n (scope: IScope,
instanceElement: IAugmentedJQuery, instanceAttributes:
IAttributes,\n controller: any, transclude: ITranscludeFunction): void;\n}\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}\n\nexport interface IAttributes {\n $observe(attr: string, fn: (v: string) => void):
void;\n [key: string]: any;\n}\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}\n\nexport interface ICloneAttachFunction { (clonedElement: IAugmentedJQuery, scope:

```



```

IScope): any; } \nextport 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 }; \nextport interface IProvider { $get: IInjectable; } \nextport 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 } \nextport
interface
  IParseService { (expression: string): ICompiledExpression; } \nextport interface ICompiledExpression { \n (context:
any, locals: any): any; \n assign?: (context: any, value: any) => any; \n } \nextport interface IHttpBackendService { \n
(method: string, url: string, post?: any, callback?: Function, headers?: any, timeout?: number, \n withCredentials?:
boolean): void; \n } \nextport interface ICacheObject { \n put<T>(key: string, value?: T): T; \n get(key: string):
any; \n } \nextport interface ITemplateCacheService extends ICacheObject { } \nextport interface
ITemplateRequestService { \n (template: string | any /* TrustedResourceUrl */, ignoreRequestError?: boolean):
Promise<string>; \n totalPendingRequests: number; \n } \nextport type IController = string | IInjectable; \nextport
interface IControllerService { \n (controllerConstructor: IController, locals?: any, later?: any, ident?: any): any; \n
(controllerName: string, locals?: any): any; \n } \nextport interface IInjectorService { \n get(key: string):
any; \n has(key: string): boolean; \n } \nextport interface IIntervalService { \n (func: Function, delay: number,
count?: number, invokeApply?: boolean, \n ...args: any[]): Promise<any>; \n cancel(promise: Promise<any>):
boolean; \n } \nextport interface ITestabilityService { \n findBindings(element: Element, expression: string,
opt_exactMatch?: boolean): Element[]; \n findModels(element: Element, expression: string, opt_exactMatch?:
boolean): Element[]; \n getLocation(): string; \n setLocation(url: string): void; \n whenStable(callback: Function):
void; \n } \nextport interface INgModelController { \n $render(): void; \n $isEmpty(value: any): boolean; \n
$setValidity(validationErrorKey: string, isValid: boolean): void; \n $setPristine(): void; \n $setDirty(): void; \n
$setUntouched(): void; \n $setTouched(): void; \n $rollbackViewValue(): void; \n $validate(): void; \n
$commitViewValue(): void; \n $setViewValue(value: any, trigger: string): void; \n \n $viewValue: any; \n
$modelValue: any; \n
  $parsers: Function[]; \n $formatters: Function[]; \n $validators: {[key: string]: Function}; \n $asyncValidators:
{[key: string]: Function}; \n $viewChangeListeners: Function[]; \n $error: Object; \n $pending: Object; \n
$untouched: boolean; \n $touched: boolean; \n $pristine: boolean; \n $dirty: boolean; \n $valid: boolean; \n $invalid:
boolean; \n $name: string; \n } \n \n function noNg(): never { \n throw new Error('AngularJS v1.x is not
loaded!'); \n } \n \n const noNgElement: typeof angular.element = (( () => noNg()) as any); \n noNgElement.cleanData =
noNg; \n \n let angular: { \n bootstrap: (e: Element, modules: (string | IInjectable)[], config?:
IAngularBootstrapConfig) => \n      IInjectorService, \n      module: (prefix: string, dependencies?: string[]) =>
IModule, \n      element: { \n (e: string | Element | Document | IAugmentedjQuery): IAugmentedjQuery; \n
cleanData: (nodes: Node[] | NodeList) => void; \n }, \n      injector: (modules: Array<string | IInjectable>, strictDi?:
boolean) =>
        IInjectorService, \n      version: {major: number}, \n      resumeBootstrap: () => void, \n      getTestability: (e: Element) =>
ITestabilityService \n } = { \n bootstrap: noNg, \n module: noNg, \n element: noNgElement, \n injector: noNg, \n
version: undefined as any, \n resumeBootstrap: noNg, \n getTestability: noNg; \n }; \n \n \n try { \n if
(window.hasOwnProperty('angular')) { \n angular = (<any>window).angular; \n } \n } catch { \n // ignore in CJS
mode. \n } \n \n /** \n * @deprecated Use `setAngularJSGlobal` instead. \n * \n * @publicApi \n * \n \n \nextport function
setAngularLib(ng: any): void { \n setAngularJSGlobal(ng); \n } \n \n \n /** \n * @deprecated Use `getAngularJSGlobal`
instead. \n * \n * @publicApi \n * \n \n \nextport function getAngularLib(): any { \n return
getAngularJSGlobal(); \n } \n \n \n /** \n * Resets the AngularJS global. \n * \n * Used when AngularJS is loaded lazily,

```

```

and not available on `window`.
\n * @publicApi
\n ^\nexport function setAngularJSGlobal(ng: any): void {
\n  angular = ng;
\n}
\n/**
\n * Returns the current
\n AngularJS global.
\n * @publicApi
\n * ^\nexport function getAngularJSGlobal(): any {
\n  return
\n  angular;
\n}
\n\nexport const bootstrap: typeof angular.bootstrap = (e, modules, config?) =>
\n  angular.bootstrap(e,
\n  modules, config);
\n\n// Do not declare as `module` to avoid webpack bug
\n// (see
\nhttps://github.com/angular/angular/issues/30050).
\n\nexport const module_: typeof angular.module = (prefix,
\n  dependencies?) =>
\n  angular.module(prefix, dependencies);
\n\nexport const element: typeof angular.element = (e
\n=> angular.element(e)) as typeof angular.element;
\n\nexport const element.cleanData = nodes =>
\n  angular.element.cleanData(nodes);
\n\nexport const injector: typeof angular.injector =
\n  (modules:
\n  Array<string|IInjectable>, strictDi?: boolean) =>
\n  angular.injector(modules, strictDi);
\n\nexport const
\n  resumeBootstrap: typeof angular.resumeBootstrap = () =>
\n  angular.resumeBootstrap();
\n\nexport const
\n  getTestability: typeof angular.getTestability = e =>
\n  angular.getTestability(e);
\n}
\n",
\n/**
\n * @license
\n * Copyright Google Inc. All Rights Reserved.
\n * Use of this source code is governed by an MIT-style license
\n that can be
\n * found in the LICENSE file at https://angular.io/license
\n * ^\n\nexport const $COMPILE =
\n '$compile';
\nexport const $CONTROLLER = '$controller';
\nexport const $DELEGATE = '$delegate';
\nexport const
\n $EXCEPTION_HANDLER = '$exceptionHandler';
\nexport const $HTTP_BACKEND = '$httpBackend';
\nexport
\n const $INJECTOR = '$injector';
\nexport const $INTERVAL = '$interval';
\nexport const $PARSE = '$parse';
\nexport
\n const $PROVIDE = '$provide';
\nexport const $ROOT_SCOPE = '$rootScope';
\nexport const $SCOPE =
\n '$scope';
\nexport const $TEMPLATE_CACHE = '$templateCache';
\nexport const $TEMPLATE_REQUEST =
\n '$templateRequest';
\n\nexport const $TESTABILITY = '$$testability';
\n\nexport const COMPILER_KEY =
\n '$$angularCompiler';
\nexport const DOWNGRADED_MODULE_COUNT_KEY =
\n '$$angularDowngradedModuleCount';
\nexport const GROUP_PROJECTABLE_NODES_KEY =
\n '$$angularGroupProjectableNodes';
\n\nexport
\n const INJECTOR_KEY = '$$angularInjector';
\nexport const LAZY_MODULE_REF =
\n '$$angularLazyModuleRef';
\nexport const NG_ZONE_KEY = '$$angularNgZone';
\n\nexport const
\n UPGRADE_APP_TYPE_KEY = '$$angularUpgradeAppType';
\n\nexport const REQUIRE_INJECTOR = '^?^' +
\n INJECTOR_KEY;
\nexport const REQUIRE_NG_MODEL = '?ngModel';
\n\nexport const
\n UPGRADE_MODULE_NAME = '$$UpgradeModule';
\n}
\n",
\n/**
\n * @license
\n * Copyright Google Inc. All Rights
\n Reserved.
\n * Use of this source code is governed by an MIT-style license that can be
\n * found in the
\n LICENSE file at https://angular.io/license
\n * ^\n\n/**
\n * A `PropertyBinding` represents a mapping between a
\n property name
\n * and an attribute name. It is parsed from a string of the form
\n * `"prop: attr"`; or simply
\n * `"propAndAttr"` where the property
\n * and attribute have the same identifier.
\n * ^\n\nexport class PropertyBinding
\n {
\n  // TODO(issue/24571): remove '!'.
\n  bracketAttr!: string;
\n  // TODO(issue/24571): remove '!'.
\n  bracketParenAttr
\n!: string;
\n  // TODO(issue/24571): remove '!'.
\n  parenAttr!: string;
\n  // TODO(issue/24571): remove '!'.
\n  onAttr
\n!: string;
\n  // TODO(issue/24571): remove '!'.
\n  bindAttr!: string;
\n  // TODO(issue/24571): remove '!'.
\n  constructor(public prop: string, public attr: string) {
\n    this.parseBinding();
\n  }
\n  private
\n  parseBinding() {
\n    this.bracketAttr = `${this.attr}`;
\n    this.parenAttr = `(${this.attr})`;
\n    this.bracketParenAttr
\n= `(${this.attr})`;
\n    const capitalAttr = this.attr.charAt(0).toUpperCase() +
\n    this.attr.substr(1);
\n    this.onAttr =
\n    `on${capitalAttr}`;
\n    this.bindAttr = `bind${capitalAttr}`;
\n    this.bindonAttr = `bindon${capitalAttr}`;
\n  }
\n}
\n}
\n",
\n/**
\n * @license
\n * Copyright Google Inc. All Rights Reserved.
\n * Use of this source code is
\n governed by an MIT-style license that can be
\n * found in the LICENSE file at https://angular.io/license
\n * ^\n\nimport {Injector, Type} from '@angular/core';
\nimport {InjectorService,
\n INgModelController} from './angular1';
\nimport {DOWNGRADED_MODULE_COUNT_KEY,
\n UPGRADE_APP_TYPE_KEY} from './constants';
\n\nconst DIRECTIVE_PREFIX_REGEXP = /^(?:x(data)[:-
\n_]/i;
\nconst DIRECTIVE_SPECIAL_CHARS_REGEXP = /[:\|_]+(.)g;
\n\nexport function onError(e: any) {
\n  //
\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: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
// 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 ${attemptedAction}:
'downgradedModule' not specified.\n` +n             `This application contains more than one downgraded Angular
module, thus you need to ' +n             `always specify \`downgradedModule\` when downgrading components and
injectables.`;\n     }\n     if (!$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
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 = () => {\n
component.writeValue(ngModel.$viewValue); }\n\n     component.registerOnChange(ngModel.$setViewValue.bind(ngModel));\n
\n     if (typeof component.registerOnTouched === 'function') {\n
component.registerOnTouched(ngModel.$setTouched.bind(ngModel));\n     }\n }\n}\n\n/**\n * Test two values for
strict equality, accounting for the fact that `NaN !== NaN`.\n */\nexport function strictEquals(val1: any, val2: any):
boolean {\n return val1 === val2 || (val1 !== val1 && val2 !== val2);\n}\n\n",/**\n * @license\n * Copyright

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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 { ApplicationRef, ChangeDetectorRef,
ComponentFactory, ComponentRef, EventEmitter, Injector, OnChanges, SimpleChange, SimpleChanges,
StaticProvider, Testability, TestabilityRegistry, Type} from '@angular/core';\n\nimport { IAttributes,
IAugmentedJQuery, ICompileService, IInjectorService, INgModelController, IParseService, IScope} from
'./angular1';\nimport { PropertyBinding}
from './component_info';\nimport { $$SCOPE} from './constants';\nimport { getTypeName, hookupNgModel,
strictEquals} from './util';\n\nconst INITIAL_VALUE = {\n  __UNINITIALIZED__: true\n};\n\nexport class
DowngradeComponentAdapter {\n  private implementsOnChanges = false;\n  private inputChangeCount: number =
0;\n  private inputChanges: SimpleChanges = {};\n  private componentScope: IScope;\n  // TODO(issue/24571):
remove '!\n  private componentRef!: ComponentRef<any>;\n  private component: any;\n  // TODO(issue/24571):
remove '!\n  private changeDetector!: ChangeDetectorRef;\n  // TODO(issue/24571): remove '!\n  private
viewChangeDetector!: ChangeDetectorRef;\n\n  constructor(\n    private element: IAugmentedJQuery, private
attrs: IAttributes, private scope: IScope,\n    private ngModel: INgModelController, private parentInjector:
Injector,\n    private $injector: IInjectorService, private $compile: ICompileService,\n    private $parse:
IParseService, private
componentFactory: ComponentFactory<any>,\n    private wrapCallback: <T>(cb: () => T) => () => T) {\n
this.componentScope = scope.$new();\n  }\n\n  compileContents(): Node[][] {\n    const compiledProjectableNodes:
Node[][] = [];\n    const projectableNodes: Node[][] = this.groupProjectableNodes();\n    const linkFns =
projectableNodes.map(nodes => this.$compile(nodes));\n\n    this.element.empty !();\n\n    linkFns.forEach(linkFn
=> {\n      linkFn(this.scope, (clone: Node[]) => {\n        compiledProjectableNodes.push(clone);\n
this.element.append !(clone);\n      });\n    });\n\n    return compiledProjectableNodes;\n  }\n\n  createComponent(projectableNodes: Node[][]) {\n    const providers: StaticProvider[] = [{provide: $$SCOPE,
useValue: this.componentScope}];\n    const childInjector = Injector.create(\n      {providers: providers, parent:
this.parentInjector, name: 'DowngradeComponentAdapter'});\n\n    this.componentRef =\n    this.componentFactory.create(childInjector,
projectableNodes, this.element[0]);\n    this.viewChangeDetector =
this.componentRef.injector.get(ChangeDetectorRef);\n    this.changeDetector =
this.componentRef.changeDetectorRef;\n    this.component = this.componentRef.instance;\n\n    // testability hook is
commonly added during component bootstrap in\n    // packages/core/src/application_ref.bootstrap()\n    // in
downgraded application, component creation will take place here as well as adding the\n    // testability hook.\n    const testability = this.componentRef.injector.get(Testability, null);\n    if (testability) {\n
this.componentRef.injector.get(TestabilityRegistry)\n
.registerApplication(this.componentRef.location.nativeElement, testability);\n  }\n\n  hookupNgModel(this.ngModel, this.component);\n  }\n\n  setupInputs(manuallyAttachView: boolean,
propagateDigest = true): void {\n    const attrs = this.attrs;\n    const inputs = this.componentFactory.inputs || [];\n
for (let i = 0; i < inputs.length;
i++) {\n      const input = new PropertyBinding(inputs[i].propName, inputs[i].templateName);\n      let expr:
string|null = null;\n\n      if (attrs.hasOwnProperty(input.attr)) {\n        const observeFn = (prop => {\n          let
prevValue = INITIAL_VALUE;\n          return (currValue: any) => {\n            // Initially, both `$observe()` and
`$watch()` will call this function.\n            if (!strictEquals(prevValue, currValue)) {\n              if (prevValue ===
INITIAL_VALUE) {\n                prevValue = currValue;\n              }\n              this.updateInput(prop, prevValue,
currValue);\n              prevValue = currValue;\n            }\n          });\n        })(input.prop);\n      }\n      attrs.$observe(input.attr, observeFn);\n\n      // Use `$watch()` (in addition to `$observe()`) in order to initialize the
input in time\n      // for `ngOnChanges()`. This is necessary if we are already in a `$digest`, which means that\n
// `ngOnChanges()` (which is
called by a watcher) will run before the `$observe()` callback.\n      let unwatch: Function|null =
this.componentScope.$watch(() => {\n        unwatch !();\n        unwatch = null;\n

```

```

observeFn(attrs[input.attr]);\n    });\n\n    } else if (attrs.hasOwnProperty(input.bindAttr)) {\n        expr =
attrs[input.bindAttr];\n    } else if (attrs.hasOwnProperty(input.bracketAttr)) {\n        expr =
attrs[input.bracketAttr];\n    } else if (attrs.hasOwnProperty(input.bindonAttr)) {\n        expr =
attrs[input.bindonAttr];\n    } else if (attrs.hasOwnProperty(input.bracketParenAttr)) {\n        expr =
attrs[input.bracketParenAttr];\n    }\n    if (expr != null) {\n        const watchFn =\n            (prop => (currValue:
any, prevValue: any) =>\n                this.updateInput(prop, prevValue, currValue))(input.prop);\n        this.componentScope.$watch(expr, watchFn);\n    } }\n\n    // Invoke `ngOnChanges` and Change Detection
(when necessary)\n\n    const detectChanges = () => this.changeDetector.detectChanges();\n    const prototype =
this.componentFactory.componentType.prototype;\n    this.implementsOnChanges = !(prototype &&
(<OnChanges>prototype).ngOnChanges);\n\n    this.componentScope.$watch(() => this.inputChangeCount,
this.wrapCallback(() => {\n        // Invoke `ngOnChanges`\n        if (this.implementsOnChanges) {\n            const
inputChanges = this.inputChanges;\n            this.inputChanges = {};\n            (<OnChanges>this.component).ngOnChanges(inputChanges !);\n        } }\n\n    this.viewChangeDetector.markForCheck();\n\n    // If opted out of propagating digests, invoke change detection
when inputs change.\n    if (!propagateDigest) {\n        detectChanges();\n    } });\n\n    // If not opted out of
propagating digests, invoke change detection on every digest\n    if (propagateDigest) {\n        this.componentScope.$watch(this.wrapCallback(detectChanges));\n    } }\n\n    // If necessary, attach the view so that
it
    will be dirty-checked.\n    // (Allow time for the initial input values to be set and `ngOnChanges` to be called.)\n    if (manuallyAttachView || !propagateDigest) {\n        let unwatch: Function|null = this.componentScope.$watch(() =>
{\n            unwatch !();\n            unwatch = null;\n        });\n        const appRef =
this.parentInjector.get<ApplicationRef>(ApplicationRef);\n        appRef.attachView(this.componentRef.hostView);\n    } }\n\n    setupOutputs() {\n        const attrs =
this.attrs;\n        const outputs = this.componentFactory.outputs || [];\n        for (let j = 0; j < outputs.length; j++) {\n            const output = new PropertyBinding(outputs[j].propName, outputs[j].templateName);\n            const bindonAttr =
output.bindonAttr.substring(0, output.bindonAttr.length - 6);\n            const bracketParenAttr =\n                `(${output.bracketParenAttr.substring(2, output.bracketParenAttr.length - 8)})`; \n            // order below is important -
first update bindings then evaluate expressions\n            if (attrs.hasOwnProperty(bindonAttr)) {\n                this.subscribeToOutput(output, attrs[bindonAttr], true);\n            }\n            if (attrs.hasOwnProperty(bracketParenAttr)) {\n                this.subscribeToOutput(output, attrs[bracketParenAttr], true);\n            }\n            if (attrs.hasOwnProperty(output.onAttr)) {\n                this.subscribeToOutput(output, attrs[output.onAttr]);\n            }\n            if (attrs.hasOwnProperty(output.parenAttr)) {\n                this.subscribeToOutput(output,
attrs[output.parenAttr]);\n            } }\n\n            private subscribeToOutput(output: PropertyBinding, expr: string,
isAssignment: boolean = false) {\n                const getter = this.$parse(expr);\n                const setter = getter.assign;\n                if
(isAssignment && !setter) {\n                    throw new Error(`Expression '${expr}' is not assignable!`);\n                }\n                const emitter
= this.component[output.prop] as EventEmitter<any>;\n                if (emitter) {\n                    emitter.subscribe({\n                        next:
isAssignment ? (v: any) => setter !(this.scope, v) :\n                            (v: any) => getter(this.scope, {'$event': v})\n                    });\n                } else {\n                    throw new Error(`Missing
emitter '${output.prop}' on component '${getTypeName(this.componentFactory.componentType)}'`);\n                } }\n\n            registerCleanup() {\n                const testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);\n                const
destroyComponentRef = this.wrapCallback(() => this.componentRef.destroy());\n                let destroyed = false;\n                this.element.on !('$destroy', () => this.componentScope.$destroy());\n                this.componentScope.$on('$destroy', () =>
{\n                    if (!destroyed) {\n                        destroyed = true;\n                    }\n                });\n                testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);\n            }\n\n            destroyComponentRef();\n        } }\n\n        getInjector(): Injector { return this.componentRef.injector; }\n\n        private updateInput(prop: string, prevValue: any, currValue: any) {\n            if (this.implementsOnChanges) {\n                this.inputChanges[prop]

```

```

= new SimpleChange(prevValue, currValue, prevValue === currValue);\n  }\n\n  this.inputChangeCount++;\n  this.component[prop] = currValue;\n  }\n\n  groupProjectableNodes() {\n    let ngContentSelectors =\n    this.componentFactory.ngContentSelectors;\n    return groupNodesBySelector(ngContentSelectors,\n    this.element.contents !());\n  }\n}\n\n/**\n * Group a set of DOM nodes into `ngContent` groups, based on the given\n content selectors.\n */\nexport function groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]):\nNode[][] {\n  const projectableNodes: Node[][] = [];\n  let wildcardNgContentIndex: number;\n\n  for (let i = 0, ii =\nngContentSelectors.length; i < ii; ++i) {\n    projectableNodes[i] = [];\n  }\n\n  for (let j = 0, jj = nodes.length; j < jj;\n++j) {\n    const node = nodes[j];\n    const ngContentIndex = findMatchingNgContentIndex(node,\nngContentSelectors);\n    if (ngContentIndex != null) {\n      projectableNodes[ngContentIndex].push(node);\n    }\n  }\n\n  return\n  projectableNodes;\n}\n\nfunction findMatchingNgContentIndex(element: any, ngContentSelectors: string[]):\nnumber|null {\n  const ngContentIndices: number[] = [];\n  let wildcardNgContentIndex: number = -1;\n  for (let i =\n0; i < ngContentSelectors.length; i++) {\n    const selector = ngContentSelectors[i];\n    if (selector === '*') {\n      wildcardNgContentIndex = i;\n    } else {\n      if (matchesSelector(element, selector)) {\n        ngContentIndices.push(i);\n      }\n    }\n  }\n  ngContentIndices.sort();\n\n  if (wildcardNgContentIndex !== -1) {\n    ngContentIndices.push(wildcardNgContentIndex);\n  }\n  return ngContentIndices.length ? ngContentIndices[0] :\nnull;\n}\n\nlet _matches: (this: any, selector: string) => boolean;\n\nfunction matchesSelector(el: any, selector:\nstring): boolean {\n  if (!_matches) {\n    const elProto = <any>Element.prototype;\n    _matches = elProto.matches ||\nelProto.matchesSelector || elProto.mozMatchesSelector ||\nelProto.msMatchesSelector\n    || elProto.oMatchesSelector || elProto.webkitMatchesSelector;\n  }\n  return el.nodeType ===\nNode.ELEMENT_NODE ? _matches.call(el, selector) : false;\n}\n\n", /**\n * @license\n * Copyright Google Inc.\n All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in\n the LICENSE file at https://angular.io/license\n */\nimport {isFunction} from './util';\n\nexport interface\nThenable<T> { then(callback: (value: T) => any): any; }\n\nexport function isThenable<T>(obj: unknown): obj is\nThenable<T> {\n  return !!obj && isFunction((obj as any).then);\n}\n\n/**\n * Synchronous, promise-like object.\n */\nexport class SyncPromise<T> {\n  protected value: T|undefined;\n  private resolved = false;\n  private callbacks:\n((value: T) => unknown)[] = [];\n\n  static all<T>(valuesOrPromises: (T|Thenable<T>)[]): SyncPromise<T[]> {\n    const aggPromise = new SyncPromise<T[]>();\n    let resolvedCount = 0;\n    const results: T[] = [];\n    const\nresolve = (idx: number, value: T) => {\n      results[idx] = value;\n      if (++resolvedCount ===\nvaluesOrPromises.length) aggPromise.resolve(results);\n    };\n\n    valuesOrPromises.forEach((p, idx) => {\n      if\n(isThenable(p)) {\n        p.then(v => resolve(idx, v));\n      } else {\n        resolve(idx, p);\n      }\n    });\n\n    return\naggPromise;\n  }\n\n  resolve(value: T): void {\n    // Do nothing, if already resolved.\n    if (this.resolved)\nreturn;\n\n    this.value = value;\n    this.resolved = true;\n\n    // Run the queued callbacks.\n    this.callbacks.forEach(callback => callback(value));\n    this.callbacks.length = 0;\n  }\n\n  then(callback: (value: T)\n=> unknown): void {\n    if (this.resolved) {\n      callback(this.value !);\n    } else {\n      this.callbacks.push(callback);\n    }\n  }\n}\n\n", /**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE\n file at https://angular.io/license\n */\nimport {ComponentFactory, ComponentFactoryResolver, Injector, NgZone,\nType} from '@angular/core';\nimport {IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService,\nIDirective, IInjectorService, INgModelController, IParseService, IScope} from './angular1';\nimport {$COMPILE,\n$INJECTOR, $PARSE, INJECTOR_KEY, LAZY_MODULE_REF, REQUIRE_INJECTOR,\nREQUIRE_NG_MODEL} from './constants';\nimport {DowngradeComponentAdapter} from\n'./downgrade_component_adapter';\nimport {SyncPromise, Thenable} from './promise_util';\nimport\n{LazyModuleRef, UpgradeAppType, controllerKey, getDowngradedModuleCount, getTypeName,\ngetUpgradeAppType, validateInjectionKey} from './util';\n\n/**\n * @description\n * A helper function that\n allows an Angular component to be used from AngularJS.\n * Part of the\n [upgrade/static](api?query=upgrade%2Fstatic)\n * library for hybrid upgrade apps that support AOT compilation*\n * This helper function returns

```

a factory function to be used for registering an AngularJS wrapper directive for "downgrading" an Angular component.

`@usageNotes`

### Examples

Let's assume that you have an Angular component called `ng2Heroes` that needs to be made available in AngularJS templates.

```
{ @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.
{ @example
upgrade/static/ts/full/module.ts region="ng2-heroes-wrapper"}
For more details and examples on
downgrading Angular components to AngularJS components please
visit the [Upgrade
guide](guide/upgrade#using-angular-components-from-angularjs-code).
@param info
contains information about the Component that is being downgraded:
- component: Type<any>: The type
of the Component that will be downgraded
- downgradedModule?: string: The name of the downgraded
module (if any) that the component "belongs to", as returned by a call to downgradeModule(). It is the
module, whose corresponding Angular module will be bootstrapped, when the component needs to be
instantiated.
- <br /> (This option is only necessary when using downgradeModule() to downgrade more
than one Angular module.)
- propagateDigest?: boolean: Whether to perform @link
ChangeDetectorRef#detectChanges change detection} on the component on every
digest(https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest). If set to false, change detection
will still be performed when any of the component's inputs changes. (Default: true)
@returns a factory
function that can be used to register the component
in an AngularJS module.
@publicApi
^nextport 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.Injectable */ {
const directiveFactory: IAnnotatedFunction = function(
$scope: 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($injector) > 1);
return {
restrict: 'E',
terminal: true,
require: [REQUIRE_INJECTOR, REQUIRE_NG_MODEL],
link: (scope: IScope, element: IAugmentedJQuery, attrs: IAttributes, required: any[]) => {
// We might have to
compile the contents asynchronously, because this might have been
// triggered
by UpgradeNg1ComponentAdapterBuilder, before the Angular templates have
// been compiled.
const ngModel: INgModelController = required[1];
const parentInjector:
Injector|Thenable<Injector>|undefined = required[0];
let moduleInjector:
Injector|Thenable<Injector>|undefined = undefined;
let ranAsync = false;
if (!parentInjector ||
hasMultipleDowngradedModules) {
const downgradedModule = info.downgradedModule || "";
const
lazyModuleRefKey = `${LAZY_MODULE_REF}${downgradedModule}`;
const attemptedAction =
`instantiating component '${getTypeName(info.component)}';
validateInjectionKey($injector,
downgradedModule, lazyModuleRefKey, attemptedAction);
const lazyModuleRef =
$injector.get(lazyModuleRefKey) as LazyModuleRef;
moduleInjector = lazyModuleRef.injector ||
lazyModuleRef.promise as Promise<Injector>;
}
}
// Notes:
//
```

```

There are two injectors: `finalModuleInjector` and `finalParentInjector` (they might be // the same instance,
but that is irrelevant):\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 //\n // There are basically three cases:\n // - 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 // - 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 // - If there is a
parent component, but it may belong to a different `NgModule`, then we\n // use the `parentInjector` as
`finalParentInjector` and this downgraded component's\n // declaring `NgModule`'s injector as
`finalModuleInjector`.\n // Note 1: If the `NgModule` is already bootstrapped, we just get its injector (we
don't\n // bootstrap again).\n // Note 2: It is possible that (while there are multiple downgraded
modules) this\n // downgraded component and its parent component both belong to the same
NgModule.\n // In that case, we could have used the `parentInjector` as both\n //
`finalModuleInjector` and `finalParentInjector`, but (for simplicity) we are\n
// treating this case as if they belong to different `NgModule`s. That doesn't\n // really affect
anything, since `parentInjector` has `moduleInjector` as ancestor\n // and trying to resolve
`ComponentFactoryResolver` from either one will return\n // the same instance.\n\n // If there is a
parent component, use its injector as parent injector.\n // If this is a "top-level" Angular component, use the
module injector.\n const finalParentInjector = parentInjector || moduleInjector !;\n\n // If this is a "top-
level" Angular component or the parent component may belong to a\n // different `NgModule`, use the module
injector for module-specific dependencies.\n // If there is a parent component that belongs to the same
`NgModule`, use its injector.\n const finalModuleInjector = moduleInjector || parentInjector !;\n const
doDowngrade = (injector: Injector, moduleInjector:
Injector) => {\n // Retrieve `ComponentFactoryResolver` from the injector tied to the `NgModule` this\n
// component belongs to.\n const componentFactoryResolver: ComponentFactoryResolver =\n
moduleInjector.get(ComponentFactoryResolver);\n const componentFactory: ComponentFactory<any> =\n
componentFactoryResolver.resolveComponentFactory(info.component) !;\n\n if (!componentFactory) {\n
throw new Error(`Expecting ComponentFactory for: ${getTypeName(info.component)}`);\n }\n\n
const injectorPromise = new ParentInjectorPromise(element);\n const facade = new
DowngradeComponentAdapter(\n element, attrs, scope, ngModel, injector, $injector, $compile, $parse,\n
componentFactory, wrapCallback);\n\n const projectableNodes = facade.compileContents();\n
facade.createComponent(projectableNodes);\n facade.setupInputs(isNgUpgradeLite, info.propagateDigest);\n
facade.setupOutputs();\n facade.registerCleanup();\n\n
injectorPromise.resolve(facade.getInjector());\n\n if (ranAsync) {\n // If this is run async, it is possible
that it is not run inside a\n // digest and initial input values will not be detected.\n scope.$evalAsync(()
=> {});\n }\n\n const downgradeFn =\n !isNgUpgradeLite ? doDowngrade : (pInjector:
Injector, mInjector: Injector) => {\n if (!ngZone) {\n ngZone = pInjector.get(NgZone);\n
}\n\n wrapCallback(() => doDowngrade(pInjector, mInjector));\n\n }; \n\n // NOTE:\n // Not
using `ParentInjectorPromise.all()` (which is inherited from `SyncPromise`), because\n // Closure Compiler (or
some related tool) complains:\n // `TypeError: ...$src$downgrade_component_ParentInjectorPromise.all is not a
function`\n\n
SyncPromise.all([finalParentInjector, finalModuleInjector])\n .then(([pInjector, mInjector]) =>
downgradeFn(pInjector, mInjector));\n\n ranAsync = true;\n }\n\n // bracket-notation because of
closure - see #14441\n directiveFactory['$inject'] = [$COMPILER, $INJECTOR, $PARSE];\n return

```



```

directiveFactory;\n}\n\n/**\n * Synchronous promise-like object to wrap parent injectors,\n * to preserve the
synchronous nature of AngularJS's `$.compile`.\n */\n\nexport class ParentInjectorPromise extends SyncPromise<Injector>
{\n private injectorKey: string = controllerKey(INJECTOR_KEY);\n\n constructor(private element:
IAugmentedJQuery) {\n super();\n\n // Store the promise on the element.\n element.data !(this.injectorKey,
this);\n }\n\n resolve(injector: Injector): void {\n // Store the real injector on the element.\n this.element.data
!(this.injectorKey, injector);\n\n // Release the element to prevent memory leaks.\n this.element = null !;\n\n
// Resolve the promise.\n super.resolve(injector);\n }\n}\n\n",/**\n * @license\n * Copyright Google Inc. All
Rights Reserved.\n */\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n */\n\nimport {Injector} from '@angular/core';\nimport
{IInjectorService} from './angular1';\nimport {$INJECTOR, INJECTOR_KEY} from './constants';\nimport
{getTypeName, isFunction, validateInjectionKey} from './util';\n\n/**\n * @description\n */\n * A helper function to
allow an Angular service to be accessible from AngularJS.\n */\n * *Part of the
[upgrade/static](api?query=upgrade%2Fstatic)\n * library for hybrid upgrade apps that support AOT compilation*\n
*\n * This helper function returns a factory function that provides access to the Angular\n * service identified by the
`token` parameter.\n */\n * @usageNotes\n * ### Examples\n */\n * First ensure that the service to be downgraded is
provided in an `NgModule`\n
*\n * that will be part of the upgrade application. For example, let's assume we have\n * defined `HeroesService`\n
*\n * {\n * @example upgrade/static/ts/full/module.ts\n * region="ng2-heroes-service"\n * }\n * and that we have included this
in our upgrade app `NgModule`\n
*\n * {\n * @example upgrade/static/ts/full/module.ts\n * region="ng2-module"\n * }\n * Now we can register the `downgradeInjectable` factory function for the service\n
*\n * on an AngularJS module.\n
*\n * {\n * @example upgrade/static/ts/full/module.ts\n * region="downgrade-ng2-heroes-service"\n * }\n * Inside an AngularJS
component's controller we can get hold of the\n * downgraded service via the name we gave when downgrading.\n
*\n * {\n * @example upgrade/static/ts/full/module.ts\n * region="example-app"\n * }\n * <div class="alert is-
important">\n * When using `downgradeModule()`, downgraded injectables will not be available until the
Angular\n * module that provides them is instantiated. In order to be safe, you need to ensure that the\n
*\n * downgraded injectables are not used anywhere _outside_ the part of the app where it is\n * guaranteed that their
module has been instantiated.\n
*\n * For example, it is _OK_ to use a downgraded service in an upgraded
component that is only used\n * from a downgraded Angular component provided by the same Angular module as
the injectable, but\n * it is _not OK_ to use it in an AngularJS component that may be used independently of
Angular or\n * use it in a downgraded Angular component from a different module.\n
*\n * </div>\n
*\n * @param
token an `InjectionToken` that identifies a service provided from Angular.\n
*\n * @param downgradeModule the
name of the downgraded module (if any) that the injectable\n * "belongs to", as returned by a call to
`downgradeModule()`. It is the module, whose injector will\n * be used for instantiating the injectable.<br />\n
*\n * (This option is only necessary when using `downgradeModule()` to downgrade more than one Angular\n
*\n * module.)\n
*\n * @returns a [factory function](https://docs.angularjs.org/guide/di) that can be\n * used to register the service on an
AngularJS module.\n
*\n * @publicApi\n */\n\nexport function downgradeInjectable(token: any, downgradeModule:
string = ""): Function {\n const factory = function($injector: IInjectorService) {\n const injectorKey =
`${INJECTOR_KEY}${downgradeModule}`;\n const injectableName = isFunction(token) ?
getTypeName(token) : String(token);\n const attemptedAction = `instantiating injectable '${injectableName}'`;\n\n
validateInjectionKey($injector, downgradeModule, injectorKey, attemptedAction);\n\n const injector: Injector =
$injector.get(injectorKey);\n return injector.get(token);\n }; (factory as any)['$inject'] = [$INJECTOR];\n\n
return factory;\n }\n\n",/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n */\n * Use of this source
code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n
*/\n\nimport {ElementRef, Injector, SimpleChanges} from '@angular/core';\nimport {DirectiveRequireProperty,
IAugmentedJQuery, ICloneAttachFunction, ICompileService, IController, IControllerService, IDirective,
IHttpBackendService, IInjectorService, ILinkFn, IScope, ITemplateCacheService, SingleOrListOrMap, element as
angularElement} from './angular1';\nimport {$COMPILE, $CONTROLLER, $HTTP_BACKEND, $INJECTOR,

```

```

$TEMPLATE_CACHE} from './constants';\nimport { controllerKey, directiveNormalize, isFunction} from
 './util';\n\n\n// Constants\nconst REQUIRE_PREFIX_RE = /^(\\^\\|^)?(\\|)?(\\^\\|^)?/;\n\n// Interfaces\nexport
interface IBindingDestination {\n [key: string]: any;\n $onChanges?: (changes: SimpleChanges) =>
void;\n}\n\nexport interface IControllerInstance extends IBindingDestination {\n $doCheck?: () => void;\n
$onDestroy?: () => void;\n $onInit?: () => void;\n $postLink?: () => void;\n}\n\n// Classes\nexport class
UpgradeHelper {\n public readonly $injector: IInjectorService;\n
  public readonly element: Element;\n public readonly $element: IAugmentedJQuery;\n public readonly directive:
IDirective;\n\n private readonly $compile: ICompileService;\n private readonly $controller: IControllerService;\n\n
constructor(\n private injector: Injector, private name: string, elementRef: ElementRef,\n directive?:
IDirective) {\n this.$injector = injector.get($INJECTOR);\n this.$compile = this.$injector.get($COMPILE);\n
this.$controller = this.$injector.get($CONTROLLER);\n\n this.element = elementRef.nativeElement;\n
this.$element = angularElement(this.element);\n\n this.directive = directive ||
UpgradeHelper.getDirective(this.$injector, name);\n }\n\n static getDirective($injector: IInjectorService, name:
string): IDirective {\n const directives: IDirective[] = $injector.get(name + 'Directive');\n if (directives.length >
1) {\n throw new Error(`Only support single directive definition for: ${name}`);\n }\n\n const directive = directives[0];\n\n // AngularJS will transform `link: xyz` to `compile: () => xyz`. So we can
only tell there was a\n // user-defined `compile` if there is no `link`. In other cases, we will just ignore `compile`.\n
if (directive.compile && !directive.link) notSupported(name, 'compile');\n if (directive.replace)
notSupported(name, 'replace');\n if (directive.terminal) notSupported(name, 'terminal');\n\n return directive;\n
}\n\n static getTemplate(\n $injector: IInjectorService, directive: IDirective, fetchRemoteTemplate = false,\n
$element?: IAugmentedJQuery): string|Promise<string> {\n if (directive.template !== undefined) {\n return
getOrCall<string>(directive.template, $element);\n } else if (directive.templateUrl) {\n const $templateCache =
$injector.get($TEMPLATE_CACHE) as ITemplateCacheService;\n const url =
getOrCall<string>(directive.templateUrl, $element);\n const template = $templateCache.get(url);\n\n
if (template !== undefined) {\n return template;\n } else if (!fetchRemoteTemplate) {\n throw new
Error('loading directive templates asynchronously is not supported');\n }\n\n return new Promise((resolve,
reject) => {\n const $httpBackend = $injector.get($HTTP_BACKEND) as IHttpBackendService;\n
$httpBackend('GET', url, null, (status: number, response: string) => {\n if (status === 200) {\n
resolve($templateCache.put(url, response));\n } else {\n reject(`GET component template from '${url}'
returned '${status}: ${response}'`);\n }\n });\n }) else {\n throw new Error(`Directive
'${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 // Equivalent to how
jQuery/jqLite invoke `cleanData` on an Element (this.element)\n //
https://github.com/jquery/jquery/blob/e743cbd28553267f955f71ea7248377915613fd9/src/manipulation.js#L223\n
// https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2aab70d86d4d688c82/src/jqLite.js#L306-L312\n
// `cleanData` will invoke the AngularJS `$destroy` DOM event\n //
https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2aab70d86d4d688c82/src/Angular.js#L1911-L1924\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\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      $template.forEach(node => {\n        if (node.nodeType === Node.TEXT_NODE && !node.nodeValue)
{\n          node.nodeValue = "\\u200C";\n        }\n      });\n    }\n\n    return attachChildrenFn;\n  }\n\n  resolveAndBindRequiredControllers(controllerInstance:
IControllerInstance|null) {\n    const directiveRequire = this.getDirectiveRequire();\n    const requiredControllers =
this.resolveRequire(directiveRequire);\n\n    if (controllerInstance && this.directive.bindToController &&
isMap(directiveRequire)) {\n      const requiredControllersMap = requiredControllers as {[key: string]:
IControllerInstance};\n      Object.keys(requiredControllersMap).forEach(key => {\n        controllerInstance[key] =
requiredControllersMap[key];\n      });\n    }\n\n    return requiredControllers;\n  }\n\n  private compileHtml(html:
string): ILinkFn {\n    this.element.innerHTML = html;\n    return this.$compile(this.element.childNodes);\n  }\n\n  private extractChildNodes(): Node[] {\n    const childNodes: Node[] = [];\n    let childNode: Node|null;\n\n    while
(childNode = this.element.firstChild) {\n      this.element.removeChild(childNode);\n      childNodes.push(childNode);\n    }\n\n    return childNodes;\n  }\n\n  private getDirectiveRequire(): DirectiveRequireProperty {\n    const require =
this.directive.require || (this.directive.controller && this.directive.name) !;\n\n    if (isMap(require)) {\n      Object.keys(require).forEach(key => {\n        const value = require[key];\n        const match =
value.match(REQUIRE_PREFIX_RE) !;\n        const name = value.substring(match[0].length);\n\n        if (!name)
{\n          require[key] = match[0] + key;\n        }\n      });\n    }\n\n    return require;\n  }\n\n  private
resolveRequire(require: DirectiveRequireProperty, controllerInstance?: any):\n

```

```

SingleOrListOrMap<IControllerInstance>null {\n  if (!require) {\n    return null;\n  } else if
(Array.isArray(require)) {\n    return require.map(req => this.resolveRequire(req));\n  } else if (typeof require
=== 'object') {\n    const value: {[key: string]: IControllerInstance} = {};\n    Object.keys(require).forEach(key
=> value[key] = this.resolveRequire(require[key]) !);\n    return value;\n  } else if (typeof require === 'string') {\n
const match = require.match(REQUIRE_PREFIX_RE) !;\n    const inheritType = match[1] || match[3];\n\nconst name = require.substring(match[0].length);\n    const isOptional = !!match[2];\n    const searchParents =
!!inheritType;\n    const startOnParent = inheritType === '^';\n\nconst ctrlKey = controllerKey(name);\n    const elem = startOnParent ? this.$element.parent !() : this.$element;\n    const value = searchParents ?
elem.inheritedData !(ctrlKey) : elem.data !(ctrlKey);\n\nif (!value && !isOptional) {\n    throw new Error(\n
`Unable to find required '${require}' in upgraded directive '${this.name}'.`);\n  }\n  return value;\n }
else {\n    throw new Error(\n    `Unrecognized 'require' syntax on upgraded directive '${this.name}':
${require}`);\n  }\n }\n}\n\nfunction getOrCall<T>(property:
T | Function, ...args: any[]): T {\n  return isFunction(property) ? property(...args) : property;\n}\n\n// NOTE: Only
works for `typeof T !== 'object'.\nfunction isMap<T>(value: SingleOrListOrMap<T>): value is {[key: string]: T}
{\n  return value && !Array.isArray(value) && typeof value === 'object';\n}\n\nfunction notSupported(name:
string, feature: string) {\n  throw new Error(`Upgraded directive '${name}' contains unsupported feature:
'${feature}'.`);\n}\n\n", /**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source
code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n
*/\n\nimport {Directive, DoCheck, ElementRef, EventEmitter, Inject, Injector, OnChanges, OnDestroy, OnInit,
SimpleChange, SimpleChanges, Type} from '@angular/core';\n\nimport {IAttributes, IDirective, IDirectivePrePost,
IInjectorService, ILinkFn, IScope, ITranscludeFunction} from '../common/src/angular1';\n\nimport
{$$SCOPE} from '../common/src/constants';\n\nimport {IBindingDestination, IControllerInstance, UpgradeHelper}
from '../common/src/upgrade_helper';\n\nimport {isFunction, strictEquals} from '../common/src/util';\n\nconst
CAMEL_CASE = /([A-Z])/g;\nconst INITIAL_VALUE = {\n  __UNINITIALIZED__: true\n};\nconst
NOT_SUPPORTEDED: any = 'NOT_SUPPORTEDED';\n\nexport class UpgradeNg1ComponentAdapterBuilder {\n  //
TODO(issue/24571): remove '!.\n  type!: Type<any>;\n  inputs: string[] = [];\n  inputsRename: string[] = [];\n
  outputs: string[] = [];\n  outputsRename: string[] = [];\n  propertyOutputs: string[] = [];\n  checkProperties: string[] =
[];\n  propertyMap: {[name: string]: string} = {};\n  directive: IDirective|null = null;\n  // TODO(issue/24571):
remove '!.\n  template!: string;\n\n  constructor(public name: string) {\n    const selector =\n
name.replace(CAMEL_CASE, (all: string, next: string) => '-' + next.toLowerCase());\n    const self = this;\n\n  //
Note: There
is a bug in TS 2.4 that prevents us from\n  // inlining this into @Directive\n  // TODO(tbosch): find or file a bug
against TypeScript for this.\n    const directive = {selector: selector, inputs: this.inputsRename, outputs:
this.outputsRename};\n\n    @Directive({jit: true, ...directive})\n    class MyClass extends
UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck,\n    OnDestroy {\n      constructor(@Inject($$SCOPE) scope: IScope, injector: Injector, elementRef: ElementRef) {\n        super(\n
new UpgradeHelper(injector, name, elementRef, self.directive || undefined), scope,\n        self.template,
self.inputs, self.outputs, self.propertyOutputs, self.checkProperties,\n        self.propertyMap) as any;\n      }\n\n
      this.type = MyClass;\n    }\n\n    extractBindings() {\n      const btcIsObject = typeof this.directive !.bindToController
=== 'object';\n      if (btcIsObject && Object.keys(this.directive !.scope !).length) {\n        throw new
Error(\n        `Binding definitions on scope and controller at the same time are not supported.`);\n      }\n\n      const
context = (btcIsObject) ? this.directive !.bindToController : this.directive !.scope;\n\n      if (typeof context ===
'object') {\n        Object.keys(context).forEach(propName => {\n          const definition = context[propName];\n
          const bindingType = definition.charAt(0);\n          const bindingOptions = definition.charAt(1);\n          const attrName
= definition.substring(bindingOptions === '?' ? 2 : 1) || propName;\n\n          // QUESTION: What about `=*`?
Ignore? Throw? Support?*\n          const inputName = `input_${attrName}`;\n          const inputNameRename =
`${inputName}: ${attrName}`;\n          const outputName = `output_${attrName}`;\n          const outputNameRename
= `${outputName}: ${attrName}`;\n          const outputNameRenameChange = `${outputNameRename}Change`;\n\n

```

```

switch (bindingType) {\n
  case '@':\n
    case '<':\n
      this.inputs.push(inputName);\n
      this.inputsRename.push(inputNameRename);\n
      this.propertyMap[inputName] = propName;\n
break;\n
  case '=':\n
    this.inputs.push(inputName);\n
    this.inputsRename.push(inputNameRename);\n
    this.propertyMap[inputName] = propName;\n\n
  this.outputs.push(outputName);\n
  this.outputsRename.push(outputNameRenameChange);\n
  this.propertyMap[outputName] = propName;\n\n
  this.checkProperties.push(propName);\n
  this.propertyOutputs.push(outputName);\n
  break;\n
  case '&':\n
    this.outputs.push(outputName);\n
    this.outputsRename.push(outputNameRename);\n
    this.propertyMap[outputName] = propName;\n
break;\n
  default:\n
    let json = JSON.stringify(context);\n
    throw new Error(\n
`Unexpected mapping '${bindingType}' in '${json}' in '${this.name}' directive.`);\n
}\n
});\n
}\n
}\n\n
/**\n
 * Upgrade ng1 components into Angular.\n
 */\n
static resolve(\n
exportedComponents: {[name: string]: UpgradeNg1ComponentAdapterBuilder},\n
$injector: IInjectorService):\n
Promise<string[]> {\n
  const promises = Object.keys(exportedComponents).map(name => {\n
    const\n
    exportedComponent = exportedComponents[name];\n
    exportedComponent.directive =\n
    UpgradeHelper.getDirective($injector, name);\n
    exportedComponent.extractBindings();\n\n
    return Promise\n
    .resolve(UpgradeHelper.getTemplate($injector, exportedComponent.directive, true))\n
    .then(template =>\n
    exportedComponent.template = template);\n
  });\n\n
  return Promise.all(promises);\n
}\n\n
class\n
UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck {\n
  private controllerInstance:\n
  IControllerInstance|null = null;\n
  destinationObj: IBindingDestination|null = null;\n
  checkLastValues: any[] = [];\n
  directive: IDirective;\n
  element:\n
  Element;\n
  $element: any = null;\n
  componentScope: IScope;\n\n
  constructor(\n
  private helper:\n
  UpgradeHelper, scope: IScope, private template: string,\n
  private inputs: string[], private outputs: string[], private\n
  propOuts: string[],\n
  private checkProperties: string[], private propertyMap: {[key: string]: string}) {\n
    this.directive = helper.directive;\n
    this.element = helper.element;\n
    this.$element = helper.$element;\n
    this.componentScope = scope.$new(!this.directive.scope);\n\n
    const controllerType = this.directive.controller;\n\n
    if (this.directive.bindToController && controllerType) {\n
      this.controllerInstance =\n
      this.helper.buildController(controllerType, this.componentScope);\n
      this.destinationObj =\n
      this.controllerInstance;\n
    } else {\n
      this.destinationObj = this.componentScope;\n
    }\n\n
    for (let i = 0; i <\n
    inputs.length; i++) {\n
      (this as any)[inputs[i]] = null;\n
    }\n
    for (let j = 0; j < outputs.length; j++)\n
    {\n
      const emitter = (this as any)[outputs[j]] = new EventEmitter<any>();\n
      if\n
      (this.propOuts.indexOf(outputs[j]) === -1) {\n
        this.setComponentProperty(\n
        outputs[j], (emitter =>\n
        (value: any) => emitter.emit(value))(emitter));\n
      }\n
    }\n
    for (let k = 0; k < propOuts.length; k++) {\n
      this.checkLastValues.push(INITIAL_VALUE);\n
    }\n
  }\n\n
  ngOnInit() {\n
    // Collect contents, insert and\n
    compile template\n
    const attachChildNodes: ILinkFn|undefined = this.helper.prepareTransclusion();\n
    const\n
    linkFn = this.helper.compileTemplate(this.template);\n\n
    // Instantiate controller (if not already done so)\n
    const\n
    controllerType = this.directive.controller;\n
    const bindToController = this.directive.bindToController;\n
    if\n
    (controllerType && !bindToController) {\n
      this.controllerInstance = this.helper.buildController(controllerType,\n
      this.componentScope);\n
    }\n\n
    // Require other controllers\n
    const requiredControllers =\n
    this.helper.resolveAndBindRequiredControllers(this.controllerInstance);\n\n
    // Hook: $onInit\n
    if\n
    (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {\n
      this.controllerInstance.$onInit();\n
    }\n\n
    // Linking\n
    const link = this.directive.link;\n
    const preLink = typeof link === 'object' && link.pre;\n
    const postLink = typeof link === 'object' ? link.post : link;\n
    const attrs: IAttributes = NOT_SUPPORTED;\n
    const transcludeFn: ITranscludeFunction = NOT_SUPPORTED;\n
    if (preLink) {\n
      preLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);\n
    }\n\n
    linkFn(this.componentScope, null !, {parentBoundTranscludeFn: attachChildNodes});\n
    if (postLink) {\n
      postLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);\n
    }\n\n
    // Hook:\n
    $postLink\n
    if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) {\n
      this.controllerInstance.$postLink();\n
    }

```

```

    }
  }
  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);
  }
  setComponentProperty(name: string, value: any) {
    this.destinationObj![this.propertyMap[name]] = value;
  }
}

```

/\*\*
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 \*/
 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.
 \* @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 where they are instantiated.
 \* 4. Angular components always execute inside Angular framework codebase regardless of where they are instantiated.
 \* 5. An AngularJS component can be upgraded to an Angular component. This creates an Angular directive, which bootstraps the AngularJS component directive in that location.
 \* 6. An Angular component can be downgraded to an AngularJS component directive. This creates an 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
 \* ```
 \* const adapter = new

```

UpgradeAdapter(forwardRef(() => MyNg2Module), myCompilerOptions);\n * const module =
angular.module('myExample',
  []);\n * module.directive('ng2Comp', adapter.downgradeNg2Component(Ng2Component));\n *\n * module.directive('ng1Hello', function() {\n *   return {\n *     scope: { title: '=' },\n *     template: 'ng1[Hello\n *     {{title}}](<span ng-transclude></span>)\n *   };\n * });\n *\n * @Component({\n *   selector: 'ng2-comp',\n *   inputs: ['name'],\n *   template: 'ng2[<ng1-hello [title]="name">transclude</ng1-hello>]<ng-content></ng-content>'];\n *   directives:\n * })\n * class Ng2Component {\n * }\n *\n * @NgModule({\n *   declarations: [Ng2Component, adapter.upgradeNg1Component('ng1Hello')],\n *   imports: [BrowserModule]\n * })\n * class MyNg2Module {\n * }\n *\n * document.body.innerHTML = '<ng2-comp name="World">project</ng2-comp>';\n *\n * adapter.bootstrap(document.body, ['myExample']).ready(function() {\n *   expect(document.body.textContent).toEqual(\n *     '\n *     <ng2[ng1[Hello World!](transclude)](project)</ng2-comp>');\n * });\n *\n * ``\n *\n * @deprecated Deprecated since v5. Use `upgrade/static` instead, which also supports\n * [Ahead-of-Time compilation](guide/aot-compiler).\n * @publicApi\n * ^\n * export class UpgradeAdapter {\n *   private idPrefix: string = `NG2_UPGRADE_${upgradeCount++}_`;\n *   private downgradedComponents: Type<any>[] = [];\n *   /**\n *    * An internal map of ng1 components which need to be upgraded to ng2.\n *    * We can't upgrade until injector is instantiated and we can retrieve the component metadata.\n *    * For this reason we keep a list of components to upgrade until ng1 injector is bootstrapped.\n *    * @internal\n *    */\n *   private ng1ComponentsToBeUpgraded: {[name: string]: UpgradeNg1ComponentAdapterBuilder} = {};\n *   private upgradedProviders: StaticProvider[] = [];\n *   // TODO(issue/24571): remove '!'.\n *   private ngZone!: NgZone;\n *   // TODO(issue/24571): remove '!'.\n *   private ng1Module!: IModule;\n *   private moduleRef: NgModuleRef<any> | null = null;\n *   // TODO(issue/24571): remove '!'.\n *   private ng2BootstrapDeferred!: Deferred<IInjectorService>;\n *   constructor(private ng2AppModule: Type<any>, private compilerOptions?: CompilerOptions) {\n *     if (!ng2AppModule) {\n *       throw new Error(\n *         'UpgradeAdapter cannot be instantiated without an NgModule of the Angular app.');

```

```

* Allows AngularJS Component to be used from Angular.\n *
* Use `upgradeNg1Component` to create an Angular component from AngularJS Component\n * directive. The adapter will bootstrap AngularJS component from within the Angular\n * template.\n *
@usageNotes\n * ### Mental Model\n * 1. The component is instantiated by being listed in Angular template. This means that the\n * host element is controlled by Angular, but the component's view will be controlled by\n * AngularJS.\n *
### Supported Features\n *
- Bindings:\n *
- Attribute: `

```



```

windowNgMock.module(this.ng1Module.name);\n  const upgrade = new UpgradeAdapterRef();\n  this.ng2BootstrapDeferred.promise.then(\n    (ng1Injector) => { (<any>upgrade)._bootstrapDone(this.moduleRef,\n  ng1Injector); }, onError);\n  return upgrade;\n }\n\n/**\n * Bootstrap a hybrid AngularJS / Angular\n application.\n *\n * This `bootstrap` method is a direct replacement (takes same\n arguments) for AngularJS\n * [`bootstrap`](https://docs.angularjs.org/api/ng/function/angular.bootstrap) method.\n 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 * @Component({\n *   selector: 'ng2',\n *   inputs: ['name'],\n *   template: 'ng2[<ng1\n [title]='\"name\">transclude</ng1><ng-content></ng-content>'\n * ])\n * class Ng2 {\n * }\n *\n * @NgModule({\n *   declarations: [Ng2, adapter.upgradeNg1Component('ng1')],\n *   imports:\n [BrowserModule]\n * })\n * class MyNg2Module {\n * }\n *\n * document.body.innerHTML\n = '<ng2 name=\"World\">project</ng2>';\n *\n * adapter.bootstrap(document.body,\n ['myExample']).ready(function() {\n *   expect(document.body.textContent).toEqual(\n *     \"ng2[ng1[Hello\n World!](transclude)](project)\";\n * });\n *\n * ```\n *\n * ^\n bootstrap(element: Element, modules?: any[], config?:\n IAngularBootstrapConfig):\n UpgradeAdapterRef {\n   this.declareNg1Module(modules);\n   const upgrade =\n new UpgradeAdapterRef();\n   // Make sure resumeBootstrap() only exists if the current bootstrap is deferred\n const windowAngular = (window as any /** TODO #???? */)['angular'];\n   windowAngular.resumeBootstrap =\n undefined;\n   this.ngZone.run() => {\n bootstrap(element, [this.ng1Module.name], config !); }\n   const\n ng1BootstrapPromise = new Promise((resolve) => {\n   if (windowAngular.resumeBootstrap) {\n     const\n originalResumeBootstrap: () => void = windowAngular.resumeBootstrap;\n     windowAngular.resumeBootstrap\n = function() {\n\n       windowAngular.resumeBootstrap = originalResumeBootstrap;\n       const r =\n windowAngular.resumeBootstrap.apply(this, arguments);\n       resolve();\n       return r;\n     };\n   } else {\n     resolve();\n   }\n });\n   Promise.all([this.ng2BootstrapDeferred.promise,\n ng1BootstrapPromise]).then(([ng1Injector]) => {\n     angularElement(element).data\n !(controllerKey(INJECTOR_KEY), this.moduleRef !.injector);\n     this.moduleRef\n !.injector.get<NgZone>(NgZone).run(\n       () => { (<any>upgrade)._bootstrapDone(this.moduleRef,\n ng1Injector); }\n     }, onError);\n     return upgrade;\n   })\n }\n\n/**\n * Allows AngularJS service to be accessible\n 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 []);\n * module.service('server', Server);\n * module.service('login', Login);\n *\n * const adapter = new\n UpgradeAdapter(MyNg2Module);\n * adapter.upgradeNg1Provider('server');\n *\n * adapter.upgradeNg1Provider('login', {asToken: Login});\n *\n * adapter.bootstrap(document.body,\n ['myExample']).ready((ref) => {\n *   const example: Example = ref.ng2Injector.get(Example);\n * });\n *\n * ```\n *\n * ^\n upgradeNg1Provider(name: string, options?: {asToken: any}) {\n   const token = options &&\n options.asToken || name;\n   this.upgradedProviders.push({\n     provide: token,\n     useFactory: ($injector:\n IInjectorService) => $injector.get(name),\n     deps: [$INJECTOR]\n   });\n }\n\n/**\n * Allows Angular service\n 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 =\n angular.module('myExample', []);\n *\n * module.factory('example', adapter.downgradeNg2Provider(Example));\n *\n * adapter.bootstrap(document.body, ['myExample']).ready((ref) => {\n *   const example: Example =\n ref.ng1Injector.get('example');\n * });\n *\n * ```\n *\n * ^\n downgradeNg2Provider(token: any): Function {\n   return\n downgradeInjectable(token);\n }\n\n/**\n * Declare the AngularJS upgrade module for this adapter without\n bootstrapping the whole\n * hybrid application.\n *\n * This method is automatically called by `bootstrap()` and

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registerForNg1Tests()\n * \n * @param modules The AngularJS modules that this upgrade module should
depend upon.\n * @returns The AngularJS upgrade module that is declared by this method\n * \n *
@usageNotes\n * ### Example\n * \n * ```\n * const upgradeAdapter = new
UpgradeAdapter(MyNg2Module);\n * upgradeAdapter.declareNg1Module(['heroApp']);\n * ```\n * \n private
declareNg1Module(modules: string[] = []): IModule {\n   const delayApplyExps:
Function[] = [];\n   let original$applyFn: Function;\n   let rootScopePrototype: any;\n   let rootScope:
IRootScopeService;\n   const upgradeAdapter = this;\n   const ng1Module = this.ng1Module =
angularModule(this.idPrefix, modules);\n   const platformRef = platformBrowserDynamic();\n   \n   this.ngZone =
new NgZone({enableLongStackTrace: Zone.hasOwnProperty('longStackTraceZoneSpec')});\n   this.ng2BootstrapDeferred = new Deferred();\n   ng1Module.constant(UPGRADE_APP_TYPE_KEY,
UpgradeAppType.Dynamic)\n   .factory(INJECTOR_KEY, () => this.moduleRef!.injector.get(Injector))\n   .factory(\n     LAZY_MODULE_REF,\n     [INJECTOR_KEY, (injector: Injector) => ({ injector } as
LazyModuleRef)])\n   .constant(NG_ZONE_KEY, this.ngZone)\n   .factory(COMPILE_KEY, () =>
this.moduleRef!.injector.get(Compiler))\n   .config([\n     '$provide', '$injector',\n     (provide:
IProvideService, ng1Injector: IInjectorService) => {\n       provide.decorator($ROOT_SCOPE,
[\n         '$delegate',\n         function(rootScopeDelegate: IRootScopeService) {\n           // 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 $apply.\n           rootScopePrototype = rootScopeDelegate.constructor.prototype;\n           if
(rootScopePrototype.hasOwnProperty('$apply')) {\n             original$applyFn = rootScopePrototype.$apply;\n             rootScopePrototype.$apply = (exp: any) => delayApplyExps.push(exp);\n           } else {\n             throw
new Error('Failed to find `'$apply`' on `'$rootScope`!');\n           }\n           return rootScope =
rootScopeDelegate;\n         }\n       ]);\n       if (ng1Injector.has($$TESTABILITY)) {\n         provide.decorator($$TESTABILITY, [\n           '$delegate',\n           function(testabilityDelegate:
ITestabilityService)
{\n             const originalWhenStable: Function = testabilityDelegate.whenStable;\n             // Cannot use
arrow function below because we need the context\n             const newWhenStable = function(this: unknown,
callback: Function) {\n               originalWhenStable.call(this, function(this: unknown) {\n                 const
ng2Testability: Testability =\n                 upgradeAdapter.moduleRef!.injector.get(Testability);\n                 if (ng2Testability.isStable()) {\n                   callback.apply(this, arguments);\n                 } else {\n                   ng2Testability.whenStable(newWhenStable.bind(this, callback));\n                 }\n               });\n             testabilityDelegate.whenStable = newWhenStable;\n             return testabilityDelegate;\n           }\n         ]);\n       }\n     }]);\n     ng1Module.run([\n       '$injector', '$rootScope',\n       (ng1Injector: IInjectorService, rootScope: IRootScopeService)
=> {\n         UpgradeNg1ComponentAdapterBuilder.resolve(this.ng1ComponentsToBeUpgraded, ng1Injector)\n         .then(() => {\n           // Note: There is a bug in TS 2.4 that prevents us from\n           // inlining this into
@NgModule\n           // TODO(tbosch): find or file a bug against TypeScript for this.\n           const ngModule =
{\n             providers: [\n               {provide: $INJECTOR, useFactory: () => ng1Injector},\n               {provide:
$COMPILE, useFactory: () => ng1Injector.get($COMPILE)},\n               this.upgradedProviders\n             ],\n             imports: [resolveForwardRef(this.ng2AppModule)],\n             entryComponents:
this.downgradedComponents\n           };\n           // At this point we have ng1 injector and we have prepared\n           // ng1 components to be upgraded, we now
can bootstrap ng2.\n           @NgModule({jit: true, ...ngModule})\n           class DynamicNgUpgradeModule {\n             constructor() {\n               ngDoBootstrap() {\n                 }\n               platformRef\n             }\n             .bootstrapModule(\n               DynamicNgUpgradeModule, [this.compilerOptions!, {ngZone: this.ngZone}])\n             .then((ref: NgModuleRef<any>) => {\n               this.moduleRef = ref;\n               this.ngZone.run(()
=> {\n                 if (rootScopePrototype) {\n                   rootScopePrototype.$apply = original$applyFn; //
restore original $apply\n                   while (delayApplyExps.length) {\n                     rootScope.$apply(delayApplyExps.shift());\n                   }\n                   rootScopePrototype = null;\n                 }\n               }\n             }\n           }\n         }\n       ]);\n     }\n   }\n }

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    }\n        });\n        )\n        .then(() => this.ng2BootstrapDeferred.resolve(ng1Injector),
onError)\n        .then(() => {\n            let subscription = this.ngZone.onMicrotaskEmpty.subscribe({\n
                next: () => {\n                    if (rootScope.$$phase) {\n                        if (isDevMode()) {\n
                            console.warn(\n                                'A digest was triggered while one was already in progress. This may mean that
something is triggering digests outside the Angular zone.);\n
                            }\n                            return
rootScope.$evalAsync(() => {});\n
                            }\n                            return rootScope.$digest();\n
                        }\n                    });\n                    rootScope.$on('$destroy', () => { subscription.unsubscribe(); });\n
                });\n            });\n        }.catch((e) => this.ng2BootstrapDeferred.reject(e));\n    }]);\n    return ng1Module;\n}
}\n\n/**\n * Synchronous promise-like object to
wrap parent injectors,\n * to preserve the synchronous nature of AngularJS's $compile.\n */\n
class ParentInjectorPromise {\n // TODO(issue/24571): remove '!'.\n private injector!: Injector;\n private callbacks:
((injector: Injector) => any)[] = [];\n\n constructor(private element: IAugmentedJQuery) {\n // store the promise
on the element\n element.data !(controllerKey(INJECTOR_KEY), this);\n }\n\n then(callback: (injector:
Injector) => any) {\n if (this.injector) {\n callback(this.injector);\n } else {\n
this.callbacks.push(callback);\n }\n }\n\n resolve(injector: Injector) {\n this.injector = injector;\n\n // reset the
element data to point to the real injector\n this.element.data !(controllerKey(INJECTOR_KEY), injector);\n\n //
clean out the element to prevent memory leaks\n this.element = null !;\n\n // run all the queued callbacks\n
this.callbacks.forEach((callback) => callback(injector));\n this.callbacks.length = 0;\n }\n}\n\n/**\n
* Use `UpgradeAdapterRef` to control a hybrid AngularJS / Angular application.\n *\n * @deprecated Deprecated
since v5. Use `upgrade/static` instead, which also supports\n *\n * [Ahead-of-Time compilation](guide/aot-compiler).\n
*\n * @publicApi\n */\nexport class UpgradeAdapterRef {\n /* @internal */\n private _readyFn:
((upgradeAdapterRef: UpgradeAdapterRef) => void)|null = null;\n\n public ng1RootScope: IRootScopeService =
null !;\n\n public ng1Injector: IInjectorService = null !;\n\n public ng2ModuleRef: NgModuleRef<any> = null !;\n
\n public ng2Injector: Injector = null !;\n\n /* @internal */\n private _bootstrapDone(ngModuleRef:
NgModuleRef<any>, ng1Injector: IInjectorService) {\n this.ng2ModuleRef = ngModuleRef;\n this.ng2Injector
= ngModuleRef.injector;\n this.ng1Injector = ng1Injector;\n this.ng1RootScope =
ng1Injector.get($ROOT_SCOPE);\n this._readyFn && this._readyFn(this);\n }\n\n /**\n * Register a callback
function which is notified upon successful
hybrid AngularJS / Angular\n * application has been bootstrapped.\n *\n * The `ready` callback function is
invoked inside the Angular zone, therefore it does not\n * require a call to `$apply()`. \n *\n public ready(fn:
(upgradeAdapterRef: UpgradeAdapterRef) => void) { this._readyFn = fn; }\n\n /**\n * Dispose of running hybrid
AngularJS / Angular application.\n *\n public dispose() {\n this.ng1Injector
!.get($ROOT_SCOPE).$destroy();\n this.ng2ModuleRef !.destroy();\n }\n}\n\n"/**\n * Generated bundle index.
Do not edit.\n */\n\nexport * from
'/index';\n\n"],"names":["angularElement","INITIAL_VALUE","element","angularModule","ParentInjectorPromise"],
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EAAE,GAAG;YACb,QAAQ,EAAE,IAAI;YACd,OAAO,EAAE,CAAC,gBAAgB,EAAE,gBAAgB,CAAC;YAC7C  
,IAAI,EAAE,CAAC,KAAa,EAAE,OAAyB,EAAE,KAAkB,EAAE,QAAe;;;gBAKIF,MAAM,OAAO,GAAuB,QA

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C;QAC/B,oBA Ae,GAAa,EAAE,CAAC;QAC/B,gBA AW,GAA6B,EAAE,CAAC;QAC3C,cAAS,GAAoB,IAAI,CAAC;;cAK1B,QAAQ,GACV,IAAI,CAAC,OAAO,CAAC,UAAU;;;QAAE,CAAC,GA AW,EAAE,IAAY,KAAK,GAAG,GAAG,IAAI,CAAC,WAAW,EAAE,EAAC;;cAC/E,IAAI,GAAG,IAAI;;;cAKX,SAAS,GAAG,EAAC,QAAQ,EAAE,QAAQ,EAAE,MAAM,EAAE,IAAI,CAAC,YAAY,EAAE,OAAO,EAAE,IAAI,CAAC,aAAa,EAAC;QAE9F,MACM,OAAQ,SAAQ,0BAA0B;;;YAE9C,YAA4B,KAAa,EAAE,QAAkB,EAAE,UAA sB;gBACnF,mBAA A,KAAK,CACD,IAAI,aAAa,CAAC,QAAQ,EAAE,IAAI,EAAE,UAAU,EAAE,IAAI,CAAC,SAAS,IAAI,SAAS,CAAC,EAAE,KAAK,EACjF,IAAI,CAAC,QAAQ,EAAE,IAAI,CAAC,MAAM,EAAE,IAAI,CAAC,OAAO,EAAE,IAAI,CAAC,eAAe,EAAE,IAAI,CAAC,eAAe,EACpF,IAAI,CAAC,WAAW,CAAC,GAAQ;aAC9B;;oBARF,SAAS,yBAAE,GAAG,EAAE,IAAI,IAAK,SAAS;;;oDAGpB,MAAM,SAAC,MAAM;oBA1C8B,QAAQ;oBAA1C,UAAU;;QAI DIC,IAAI,CAAC,IAAI,GAAG,OAAO,CAAC;KACrB;;;IAED,eAAe;;cACP,WAAW,GAAG,OAAO,mBAAA,IAAI,CAAC,SAAS,GAAG,gBAAgB,KAAK,QAAQ;QACzE,IAAI,WAAW,IAAI,MAAM,CAAC,IAAI,oBAA C,mBAAA,IAAI,CAAC,SAAS,GAAG,KAAK,GAAG,CAAC,MAAM,EAAE;YAC/D,MAAM,IAAI,KAAK,CACX,iFAAiF,CAAC,CAAC;SACxF;;cAEK,OAAO,GAAG,CAAC,WAAW,IAAI,mBAAA,IAAI,CAAC,SAAS,GAA G,gBAAgB,GAAG,mBAAA,IAAI,CAAC,SAAS,GAAG,KAAK;QAEIF,IAAI,OAAO,OAAO,IAAI,QAAQ,EAAE;YAC9B,MAAM,CAAC,IAAI,CAAC,OAAO,CAAC,CAAC,OAAO;;;YAAC,QAAQ;;sBAC7B,UAAU,GAAG,OAAO,CAAC,QAAQ,CAAC;;sBAC9B,WAAW,GAAG,UAAU,CAAC,MAAM,CAAC,CAAC,CAAC;;sBACIC,cAAc,GAAG,UAAU,CAAC,MAAM,CAAC,CAAC,CAAC;;sBACrC,QAAQ,GAAG,UAAU,CAAC,SAAS,CAAC,cAAc,KAAK,GAAG,GAAG,CAAC,GAAG,CAAC,CAAC,IAAI,QAAQ;;sBAI3E,SAAS,GAAG,SAAS,QAAQ,EAAE;;sBAC/B,eAAe,GAAG,GAAG,SAAS,KAAK,QAAQ,EAAE;;sBAC7C,UAAU,GAAG,UAAU,QAAQ,EAAE;;sBACjC,gBAAgB,GAAG,GAAG,UAAU,KAAK,QAAQ,EAAE;;sBAC/C,sBAAsB,GAAG,GAAG,gBAAgB,QAAQ;gBAEID,QAAQ,WAAW;oBACjB,KAAK,GAAG,CAAC;oBACT,KAAK,GAAG;wBACN,IAAI,CAAC,MAAM,CAAC,IAAI,CAAC,SAAS,CAAC,CAAC;wBAC5B,IAAI,CAAC,YAAY,CAAC,IAAI,CAAC,eAAe,CAAC,CAAC;wBACxC,IAAI,CAAC,WAAW,CAAC,SAAS,CAAC,GAAG,QAAQ,CAAC;wBACvC,MAAM;oBACR,KAAK,GAAG;wBACN,IAAI,CAAC,MAAM,CAAC,IAAI,CAAC,SAAS,CAAC,CAAC;wBAC5B,IAAI,CAAC,YAAY,C AAC,IAAI,CAAC,eAAe,CAAC,CAAC;wBACxC,IAAI,CAAC,WAAW,CAAC,SAAS,CAAC,GAAG,QAAQ,CAAC;wBAEvC,IAAI,CAAC,OAAO,CAAC,IAAI,CAAC,UAAU,CAAC,CAAC;wBAC9B,IAAI,CAAC,aAAa,CAAC,IAAI,CAAC,sBAAsB,CAAC,CAAC;wBAChD,IAAI,CAAC,WAAW,CAAC,UAAU,CAAC,GAAG,QAAQ,CAAC;wBAExC,IAAI,CAAC,eAAe,CAAC,IAAI,CAAC,QAAQ,CAAC,CAAC;wBACpC,IAAI,CAAC,eAAe,CAAC,IAAI,CAAC,UAAU,CAAC,CAAC;wBACtC,MAAM;oBACR,KAAK,GAAG;wBACN,IAAI,CAAC,OAAO,CAAC,IAAI,CAAC,UAAU,CAAC,CAAC;wBAC9B,IAAI,CAAC,aAAa,CAAC,IAAI,CAAC,gBAAgB,CAAC,CAAC;wBACIC,IAAI,CAAC,WAAW,CAAC,UAAU,CAAC,GAAG,QAAQ,CAAC;wBACxC,MAAM;oBACR;;4BACM,IAAI,GAAG,IAAI,CAAC,SAAS,CAAC,OAAO,CAAC;wBACIC,MAAM,IAAI,KAAK,CACX,uBAAuB,WAAW,SAAS,IAAI,SAAS,IAAI,CAAC,IAAI,cAAc,CAAC,CAAC;IBACxF;aACF,EAAC,CAAC;SACJ;KACF;;;IAKD,OAAO,OAAO,CACV,kBAAuE,EACvE,SAA2B;;cACvB,QAAQ,GAAG,MAAM,CAAC,IAAI,CAAC,kBAaKB,C AAC,CAAC,GAAG;;;QAAC,IAAI;;kBACjD,iBAAiB,GAAG,kBAaKB,CAAC,IAAI,CAAC;YACID,iBAAiB,CAAC,SAAS,GAAG,aAAa,CAAC,YAAY,CAAC,SAAS,EAAE,IAAI,CAAC,CAAC;YACIE,iBAAiB,CAAC,eAAe,EAAE,CAAC;YAEpC,OAAO,OAAO;IBACT,OAAO,CAAC,aAAa,CAAC,WAAW,CAAC,SAAS,EAAE,iBAAiB,CAAC,SAAS,EAAE,IAAI,CAAC,CAAC;IBACfH,IAAI;;YAAC,QAAQ,IAAI,iBAAiB,CAAC,QAAQ,GAAG,QAAQ,EAAC,CAAC;SAC9D,EAAC;QAEF,OAAO,OAAO,CAAC,GAAG,CAAC,QAAQ,CAAC,CAAC;KAC9B;CACF;;IA9GC,iDAaKB;;IACIB,mDAAsB;;IACtB,yDAA4B;;IAC5B,oDAAuB;;IACvB,0DAA6B;;IAC7B,4DAA+B;;IAC/B,4DAA+B;;IAC/B,wDAA2C;;IAC3C,sDAaKc;;IAEIC,qDAAmB;;IAEP,iDAAmB;;AAoGjC,MAAM,0BAA0B;;;IAS9B,YACY,MAAqB,EAAE,KAAa,EAAU,QAAgB,EAC9D,MAAgB,EAAU,OAAiB,EAAU,QAAkB,EACvE,eAAyB,EAAU,WAAoC;QAFvE,WAAM,GAAN,MAAM,CAAE;QAAyB,aAAQ,GAAR,QAAQ,CAAQ;QAC9D,WAAM,GAAN,MAAM,CAAU;QAAU,YAAO,GAAP,OAAO,CAAU;QAAU,aAAQ,GAAR,QAAQ,CAAU;QACvE,oBA Ae,GAAf,eAAe,CAAU;QAAU,gBA AW,GAAX,WAAW,CAAYB;QAX3E,uBAAKB,GAA6B,IAAI,CAAC;QAC5D,mBAAc,GAA6B,IAAI,CAAC;QACbD,oBA Ae,GAAU,EAAE,CAAC;QAG5B,aAAQ,GAAQ,IAAI,CAAC;QAOnB,IAAI,CAAC,SAAS,GAAG,MAAM,CAAC,SAAS,CAAC;QACIC,IAAI,CAAC,OAAO,GAAG,MAAM,CAAC,OAAO,CAAC;QAC9B,IAAI,CAAC,QAAQ,GAAG,MAAM,CAAC,QAAQ,CAAC;QACbC,IA



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AC;qBACtC;iBACF,CAAC,CAAC;gBACH,IAAI,WAAW,CAAC,GAAG,CAAC,aAAa,CAAC,EAAE;oBACiC,O  
AAO,CAAC,SAAS,CAAC,aAAa,EAAE;wBAC/B,WAAW;;;wBACX,UAAW,mBAAwC;kCACzC,kBAAkB,GA  
Aa,mBAAmB,CAAC,UAAU;;;kCAE7D,aAAa;;;4BAAG,UAAwB,QAAkB;gCAC9D,kBAAkB,CAAC,IAAI,CA  
AC,IAAI;;;gCAAE;;0CACtB,cAAc,GACHb,mBAAA,cAAc,CAAC,SAAS,GAAG,QAAQ,CAAC,GAAG,CAAC,  
WAAW,CAAC;oCACxD,IAAI,cAAc,CAAC,QAAQ,EAAE,EAAE;wCAC7B,QAAQ,CAAC,KAAK,CAAC,IAAI,  
EAAE,SAAS,CAAC,CAAC;qCACjC;yCAAM;wCACL,cAAc,CAAC,UAAU,CAAC,aAAa,CAAC,IAAI,CAAC,I  
AAI,EAAE,QAAQ,CAAC,CAAC,CAAC;qCAC/D;iCACF,EAAC,CAAC;6BACJ,CAAA;4BAED,mBAAmB,CAA  
C,UAAU,GAAG,aAAa,CAAC;4BAC/C,OAAO,mBAAmB,CAAC;yBAC5B;qBACF,CAAC,CAAC;iBACJ;aACF;  
SACF,CAAC,CAAC;QAEF,SAAS,CAAC,GAAG,CAAC;YACZ,WAAW,EAAE,YAAy;;;YACzB,CAAC,WAA  
6B,EAAE,SAA4B;gBAC1D,iCAAiC,CAAC,OAAO,CAAC,IAAI,CAAC,yBAAYB,EAAE,WAAW,CAAC;qBACj  
F,IAAI;;;gBAAC;;;0BAIE,QAAQ,GAAG;wBACf,SAAS,EAAE;4BACT,EAAC,OAAO,EAAE,SAAS,EAAE,UA  
AU;;;gCAAE,MAAM,WAAW,CAAA,EAAC;4BACnD,EAAC,OAAO,EAAE,QAAQ,EAAE,UAAU;;;gCAAE,MA  
AM,WAAW,CAAC,GAAG,CAAC,QAAQ,CAAC,CAAA,EAAC;4BACHe,IAAI,CAAC,iBAAiB;yBACvB;wBAC  
D,OAAO,EAAE,CAAC,iBAAiB,CAAC,IAAI,CAAC,YAAy,CAAC,CAAC;wBAC/C,eAAe,EAAE,IAAI,CAAC,o  
BAAoB;qBAC3C;;oBAGD,MACM,sBAAsB;wBAC1B;yBAAGB;;;wBACHb,aAAa,MAAK;;;gCAHnB,QAAQ,y  
BAAE,GAAG,EAAE,IAAI,IAAK,QAAQ;;;oBAKjC,WAAW;yBACN,eAAe,CACZ,sBAAsB,EAAE,oBAAC,IAA  
I,CAAC,eAAe,IAAI,EAAC,MAAM,EAAE,IAAI,CAAC,MAAM,EAAC,CAAC,CAAC;yBAC3E,IAAI;;;oBAAC,  
CAAC,GAAqB;wBAC1B,IAAI,CAAC,SAAS,GAAG,GAAG,CAAC;wBACrB,IAAI,CAAC,MAAM,CAAC,GAA  
G;;;wBAAC;4BACd,IAAI,kBAAkB,EAAE;gCACtB,kBAAkB,CAAC,MAAM,GAAG,gBAAGB,CAAC;gCAC7C,  
OAAO,cAAc,CAAC,MAAM,EAAE;oCAC5B,SAAS,CAAC,MAAM,CAAC,cAAc,CAAC,KAAK,EAAE,CAAC,  
CAAC;iCAC1C;gCACD,kBAAkB,GAAG,IAAI,CAAC;6BAC3B;yBACF,EAAC,CAAC;qBACJ,EAAC;yBACD,I  
AAI;;;oBAAC,MAAM,IAAI,CAAC,oBAAoB,CAAC,OAAO,CAAC,WAAW,CAAC,GAAE,OAAO,CAAC;yBAC  
nE,IAAI;;oBAAC;;4BACA,YAAy,GAAG,IAAI,CAAC,MAAM,CAAC,gBAAGB,CAAC,SAAS,CAAC;4BACxD,  
IAAI;;4BAAE;gCACJ,IAAI,SAAS,CAAC,OAAO,EAAE;oCACtB,IAAI,SAAS,EAAE,EAAE;wCACf,OAAO,CA  
AC,IAAI,CACR,wIAAwI,CAAC,CAAC;qCAC/I;oCAED,OAAO,SAAS,CAAC,UAAU;;;oCAAC,SAAQ,EAAC,C  
AAC;iCACvC;gCAED,OAAO,SAAS,CAAC,OAAO,EAAE,CAAC;6BAC5B,CAAA;yBACF,CAAC;wBACF,SA  
AS,CAAC,GAAG,CAAC,UAAU;;;wBAAE,QAAQ,YAAy,CAAC,WAAW,EAAE,CAAC,EAAE,EAAC,CAAC;q  
BACIE,EAAC,CAAC;iBACR,EAAC;qBACD,KAAK;;;gBAAC,CAAC,CAAC,KAAK,IAAI,CAAC,oBAAoB,CA  
AC,MAAM,CAAC,CAAC,CAAC,EAAC,CAAC;aACxD;SACF,CAAC,CAAC;QAEH,OAAO,SAAS,CAAC;KAC  
IB;CACF;;;IAvgBC,kCAA4D;;;IAC5D,8CAA+C;;;IAS/C,mDAA4F;;;IAC5F,2CAAiD;;;IAEjD,gCAAY  
B;;;IAEzB,mCAA6B;;;IAC7B,mCAAgD;;;IAEhD,8CAA2D;;;IAE/C,sCAA+B;;;IAAE,yCAAYC;;;AAyfx  
F,MAAMC,uBAAqB;;;IAKzB,YAAoB,OAAyB;QAAzB,YAAO,GAAP,OAAO,CAAKB;QAFrC,cAAS,GAAoC,E  
AAE,CAAC;;QAItd,mBAAA,OAAO,CAAC,IAAI,GAAG,aAAa,CAAC,YAAy,CAAC,EAAE,IAAI,CAAC,CAA  
C;KACnD;;;IAED,IAAI,CAAC,QAAqC;QACxC,IAAI,IAAI,CAAC,QAAQ,EAAE;YACjB,QAAQ,CAAC,IAAI,  
CAAC,QAAQ,CAAC,CAAC;SACzB;aAAM;YAcl,IAAI,CAAC,SAAS,CAAC,IAAI,CAAC,QAAQ,CAAC,CAA  
C;SAC/B;KACF;;;IAED,OAAO,CAAC,QAAkB;QACxB,IAAI,CAAC,QAAQ,GAAG,QAAQ,CAAC;;QAGzB,m  
BAAA,IAAI,CAAC,OAAO,CAAC,IAAI,GAAG,aAAa,CAAC,YAAy,CAAC,EAAE,QAAQ,CAAC,CAAC;;QAG  
3D,IAAI,CAAC,OAAO,sBAAG,IAAI,EAAE,CAAC;;QAGtB,IAAI,CAAC,SAAS,CAAC,OAAO;;;QAAC,CAAC,  
QAAQ,KAAK,QAAQ,CAAC,QAAQ,CAAC,EAAC,CAAC;QACzD,IAAI,CAAC,SAAS,CAAC,MAAM,GAAG,C  
AAC,CAAC;KAC3B;CACF;;;IA7BCA,2CAA6B;;;IAC7BA,4CAAwD;;;IAE5CA,0CAAiC;;;AAoC/C,M  
AAa,iBAAiB;IAA9B;;QAEU,aAAQ,GAA0D,IAAI,CAAC;QAExE,iBAAY,sBAAsB,IAAI,EAAE,CAAC;QACzC,  
gBAAW,sBAAqB,IAAI,EAAE,CAAC;QACvC,iBAAY,sBAAqB,IAAI,EAAE,CAAC;QACxC,gBAAW,sBAAa,IA  
AI,EAAE,CAAC;KA2BvC;;;IAxBS,cAAc,CAAC,WAA6B,EAAE,WAA6B;QACjF,IAAI,CAAC,YAAy,GAA  
G,WAAW,CAAC;QACHc,IAAI,CAAC,WAAW,GAAG,WAAW,CAAC,QAAQ,CAAC;QACxC,IAAI,CAAC,WA  
AW,GAAG,WAAW,CAAC;QAC/B,IAAI,CAAC,YAAy,GAAG,WAAW,CAAC,GAAG,CAAC,WAAW,CAAC,C  
AAC;QACjD,IAAI,CAAC,QAAQ,IAAI,IAAI,CAAC,QAAQ,CAAC,IAAI,CAAC,CAAC;KACtC;;;IASM,KA

AK,CAAC,EAAkD,IAAI,IAAI,CAAC,QAAQ,GAAG,EAAE,CAAC,EAAE;;;;;IAKjF,OOAO;QACZ,mBAAA,IAAI,CAAC,WAAW,GAAG,GAAG,CAAC,WAAW,CAAC,CAAC,QAAQ,EAAE,CAAC;QAC/C,mBAAA,IAAI,CAAC,YAAY,GAAG,OOAO,EAAE,CAAC;KAC/B;CACF;;;;;IAhCC,qCAA+E;;IAE/E,yCAAgD;;IACChD,wCAA8C;;IAC9C,yCAA+C;;IAC/C,wCAAsC;;;;;;ACrQBxC;;GAEG;;;;}

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":"upgrade.js","sources":["../../../../packages/upgrade/src/common/src/version.ts","../../../../packages/upgrade/src/common/src/angular1.ts","../../../../packages/upgrade/src/common/src/constants.ts","../../../../packages/upgrade/src/common/src/component_info.ts","../../../../packages/upgrade/src/common/src/util.ts","../../../../packages/upgrade/src/common/src/downgrade_component_adapter.ts","../../../../packages/upgrade/src/common/src/promise_util.ts","../../../../packages/upgrade/src/common/src/downgrade_component.ts","../../../../packages/upgrade/src/common/src/downgrade_injectable.ts","../../../../packages/upgrade/src/common/src/upgrade_helper.ts","../../../../packages/upgrade/src/dynamic/src/upgrade_ng1_adapter.ts","../../../../packages/upgrade/src/dynamic/src/upgrade_adapter.ts","../../../../packages/upgrade/public_api.ts","../../../../packages/upgrade/index.ts","../../../../packages/upgrade/upgrade.ts"],"sourcesContent":["*\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 * @module\n * @description\n * Entry point for all public APIs of the common package.\n *\nimport {Version} from '@angular/core';\n\n * @publicApi\n *\nexport const VERSION = new Version('9.0.7');\n\n\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n *\n\nexport type Ng1Token = string;\n\nexport type Ng1Expression = string | Function;\n\nexport interface IAnnotatedFunction extends Function {\n // Older versions of `@types/angular` typings extend the global `Function` interface with\n // `$inject?: string[]`, which is not compatible with `$inject?: ReadonlyArray<string>` (used in\n // latest versions).\n $inject?: Function extends{$inject?: string[]}? Ng1Token[]; ReadonlyArray<Ng1Token>;\n}\n\nexport type IInjectable = (Ng1Token | Function)[] | IAnnotatedFunction;\n\nexport type SingleOrListOrMap<T> = T | T[] | {[key: string]: T};\n\nexport interface IModule {\n name: string;\n requires: (string|IInjectable)[];\n config(fn: IInjectable): IModule;\n directive(selector: string, factory: IInjectable): IModule;\n component(selector: string, component: IComponent): IModule;\n controller(name: string, type: IInjectable): IModule;\n factory(key: Ng1Token, factoryFn: IInjectable): IModule;\n value(key: Ng1Token, value: any): IModule;\n constant(token: Ng1Token, value: any): IModule;\n run(a: IInjectable): IModule;\n}\n\nexport interface ICompileService {\n (element: Element|NodeList|Node[])string, transclude?: Function): ILinkFn;\n}\n\nexport interface ILinkFn {\n (scope: IScope, cloneAttachFn?: ICloneAttachFunction, options?: ILinkFnOptions): IAugmentedJQuery;\n $$slots?: {[slotName: string]: ILinkFn};\n}\n\nexport interface ILinkFnOptions {\n parentBoundTranscludeFn?: Function;\n transcludeControllers?: {[key: string]: any};\n futureParentElement?: Node;\n}\n\nexport interface IRootScopeService {\n $new(isolate?: boolean): IScope;\n $id: string;\n $parent: IScope;\n $root: IScope;\n $watch(exp: Ng1Expression, fn?: (a1?: any, a2?: any) => void): Function;\n $on(event: string, fn?: (event?: any, ...args: any[]) => void): Function;\n $destroy(): any;\n $apply(exp?: Ng1Expression): any;\n $digest(): any;\n $evalAsync(exp: Ng1Expression, locals?: any): void;\n $on(event: string, fn?: (event?: any, ...args: any[]) => void): Function;\n $$childTail: IScope;\n $$childHead: IScope;\n $$nextSibling: IScope;\n [key: string]: any;\n}\n\nexport interface IScope extends IRootScopeService
```

```

}
}
export interface IAngularBootstrapConfig { strictDi?: boolean; }
export interface IDirective {
  compile?:
  IDirectiveCompileFn;
  controller?: IController;
  controllerAs?: string;
  bindToController?: boolean;
  {key: string}: string;
  link?: IDirectiveLinkFn|IDirectivePrePost;
  name?: string;
  priority?: number;
  replace?:
  boolean;
  require?: DirectiveRequireProperty;
  restrict?: string;
  scope?: boolean;
  {key: string}: string;
  template?: string|Function;
  templateUrl?: string|Function;
  templateNamespace?: string;
  terminal?: boolean;
  transclude?: DirectiveTranscludeProperty;
}
export type DirectiveRequireProperty =
  SingleOrListOrMap<string>;
export type DirectiveTranscludeProperty = boolean | 'element' | {key: string}:
  string;
export interface IDirectiveCompileFn {
  (templateElement: IAugmentedJQuery, templateAttributes:
  IAttributes,
  transclude: ITranscludeFunction): IDirectivePrePost;
}
export interface IDirectivePrePost {
  pre?:
  IDirectiveLinkFn;
  post?: IDirectiveLinkFn;
}
export interface IDirectiveLinkFn {
  (scope: IScope,
  instanceElement: IAugmentedJQuery, instanceAttributes: IAttributes,
  controller: any, transclude:
  ITranscludeFunction): void;
}
export interface IComponent {
  bindings?: {key: string}: string;
  controller?:
  string|IInjectable;
  controllerAs?: string;
  require?: DirectiveRequireProperty;
  template?: string|Function;
  templateUrl?: string|Function;
  transclude?: DirectiveTranscludeProperty;
}
export interface IAttributes {
  (
  $observe(attr: string, fn: (v: string) => void): void;
  [key: string]: any;
}
export interface ITranscludeFunction {
  (
  // If the scope is provided, then the cloneAttachFn must be as well.
  (scope: IScope, cloneAttachFn:
  ICloneAttachFunction): IAugmentedJQuery;
  // If one argument is provided, then it's assumed to be the
  cloneAttachFn.
  (cloneAttachFn?: ICloneAttachFunction): IAugmentedJQuery;
}
export interface
  ICloneAttachFunction
  {
  (clonedElement: IAugmentedJQuery, scope: IScope): any;
}
export type IAugmentedJQuery = Node[] & {
  on?: (name: string, fn: () => void) => void;
  data?: (name: string, value?: any) => any;
  text?: () => string;
  inheritedData?: (name: string, value?: any) => any;
  contents?: () => IAugmentedJQuery;
  parent?: () =>
  IAugmentedJQuery;
  empty?: () => void;
  append?: (content: IAugmentedJQuery | string) =>
  IAugmentedJQuery;
  controller?: (name: string) => any;
  isolateScope?: () => IScope;
  injector?: () =>
  IInjectorService;
  triggerHandler?: (eventTypeOrObject: string | Event, extraParameters?: any[]) =>
  IAugmentedJQuery;
  remove?: () => void;
  removeData?: () => void;
}
export interface IProvider {
  $get:
  IInjectable;
}
export interface IProvideService {
  provider(token: Ng1Token, 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: IInjectable): void;
}
export interface IParseService {
  (expression: string): ICompiledExpression;
}
export interface ICompiledExpression {
  (context: any, locals: any): any;
  assign?: (context: any, value: any)
  => any;
}
export interface IHttpBackendService {
  (method: string, url: string, post?: any, callback?: Function,
  headers?: any, timeout?: number,
  withCredentials?: boolean): void;
}
export interface ICacheObject {
  put<T>(key: string, value?: T): T;
  get(key: string): any;
}
export interface ITemplateCacheService extends
  ICacheObject {
}
export interface ITemplateRequestService {
  (template: string|any /* TrustedResourceUrl */,
  ignoreRequestError?: boolean): Promise<string>;
  totalPendingRequests: number;
}
export type 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,
  ...args: any[]): Promise<any>;
  cancel(promise: Promise<any>): boolean;
}
export interface ITestabilityService {
  findBindings(element:
  Element, expression: string, opt_exactMatch?: boolean): Element[];
  findModels(element: Element, expression:
  string, opt_exactMatch?: boolean): Element[];
  getLocation(): string;
  setLocation(url: string): void;
  whenStable(callback: Function): void;
}
export interface INgModelController {
  $render(): void;
  $isEmpty(value: any): boolean;
  $setValidity(validationErrorKey: string, isValid: boolean): void;
  $setPristine():
  void;
  $setDirty(): void;
  $setUntouched(): void;
  $setTouched(): void;
  $rollbackViewValue():
  void;
}

```





\*\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

```

 *\/nexport class PropertyBinding {\n // TODO(issue/24571): remove '!.\n bracketAttr !: string;\n //
TODO(issue/24571): remove '!.\n bracketParenAttr !: string;\n // TODO(issue/24571): remove '!.\n parenAttr !:
string;\n // TODO(issue/24571): remove '!.\n onAttr !: string;\n // TODO(issue/24571): remove '!.\n bindAttr !:
string;\n // TODO(issue/24571): remove '!.\n bindonAttr !: string;\n\n constructor(public prop: string, public attr:
string) {\n this.parseBinding();\n }\n\n private parseBinding() {\n this.bracketAttr = `[${this.attr}]`;\n this.parenAttr
= `(${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 }\n\n /**\n * @license\n * Copyright
Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style
license that can be\n * found in the LICENSE file at https://angular.io/license\n */\nimport {Injector, Type} from
'@angular/core';\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) ?
$injector.get(DOWNGRADED_MODULE_COUNT_KEY) : 0;\n}\n\nexport
function getUpgradeAppType($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 $injector: IInjectorService,\n
downgradedModule: string, injectionKey: string,\n attemptedAction: string): void {\n const upgradeAppType =
getUpgradeAppType($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 `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 ${attemptedAction}: 'downgradedModule' not specified.` +\n `This application
contains more than one downgraded Angular module, thus you need to '` +\n `always specify
'\\`downgradedModule\\` when downgrading components and injectables.`);\n }\n\n if
(!$injector.has(injectionKey))\n {\n throw new Error(\n `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 '` +\n
`application?');\n }\n\n break;\n default:\n throw new Error(\n `Error while ${attemptedAction}:
Not a valid '@angular/upgrade' application.` +\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 constructor() {\n this.promise = new
Promise((res, rej) => {\n this.resolve = res;\n this.reject = rej;\n });\n }\n}\n\nexport interface
LazyModuleRef {\n injector?: Injector;\n promise?: Promise<Injector>;\n}\n\nexport
const enum UpgradeAppType {\n // App NOT using `@angular/upgrade`. (This should never happen in an
`ngUpgrade` app.)\n None,\n\n // App using the deprecated `@angular/upgrade` APIs (a.k.a. dynamic
`ngUpgrade`).\n Dynamic,\n\n // App using `@angular/upgrade/static` with `UpgradeModule`.\n Static,\n\n // App
using `@angular/upgrade/static` with `downgradeModule` (a.k.a `ngUpgrade-lite`).\n Lite,\n}\n\n/**\n * @return
Whether the passed-in component implements the subset of the\n * `ControlValueAccessor` interface needed for
AngularJS `ng-model`\n * compatibility.\n */\nfunction supportsNgModel(component: any) {\n return typeof
component.writeValue === 'function' &&\n typeof component.registerOnChange === 'function';\n}\n\n/**\n *
Glue the AngularJS `NgModelController` (if it exists) to the component\n * (if it implements the needed subset of
the `ControlValueAccessor` interface).\n */\nexport function hookupNgModel(ngModel: INgModelController,
component:
any) {\n if (ngModel && supportsNgModel(component)) {\n ngModel.$render = () => {
component.writeValue(ngModel.$viewValue); }\n
component.registerOnChange(ngModel.$setViewValue.bind(ngModel));\n if (typeof
component.registerOnTouched === 'function') {\n
component.registerOnTouched(ngModel.$setTouched.bind(ngModel));\n }\n }\n}\n\n/**\n * Test two values for
strict equality, accounting for the fact that `NaN !== NaN`.\n */\nexport function strictEquals(val1: any, val2: any):
boolean {\n return val1 === val2 || (val1 !== val1 && val2 !== val2);\n}\n\n"/**\n * @license\n * Copyright
Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n *
found in the LICENSE file at https://angular.io/license\n */\nimport { ApplicationRef, ChangeDetectorRef,
ComponentFactory, ComponentRef, EventEmitter, Injector, OnChanges, SimpleChange, SimpleChanges,
StaticProvider, Testability, TestabilityRegistry, Type } from '@angular/core';\nimport
{ IAttributes, IAugmentedJQuery, ICompileService, IInjectorService, INgModelController, IParseService, IScope }
from './angular1';\nimport { PropertyBinding } from './component_info';\nimport { $$SCOPE } from
'./constants';\nimport { getTypeName, hookupNgModel, strictEquals } from './util';\n\nconst INITIAL_VALUE = {\n
__UNINITIALIZED__: true\n};\n\nexport class DowngradeComponentAdapter {\n private implementsOnChanges
= false;\n private inputChangeCount: number = 0;\n private inputChanges: SimpleChanges = {};\n private
componentScope: IScope;\n // TODO(issue/24571): remove '!.\n private componentRef!: ComponentRef<any>;\n
private component: any;\n // TODO(issue/24571): remove '!.\n private changeDetector!: ChangeDetectorRef;\n //
TODO(issue/24571): remove '!.\n private viewChangeDetector!: ChangeDetectorRef;\n\n constructor(\n
private element: IAugmentedJQuery, private attrs: IAttributes, private scope: IScope,\n private ngModel:
INgModelController,
private parentInjector: Injector,\n private $injector: IInjectorService, private $compile: ICompileService,\n
private $parse: IParseService, private componentFactory: ComponentFactory<any>,\n private wrapCallback:
<T>(cb: () => T) => () => T) {\n this.componentScope = scope.$new();\n }\n\n compileContents(): Node[][] {\n
const compiledProjectableNodes: Node[][] = [];\n const projectableNodes: Node[][] =
this.groupProjectableNodes();\n const linkFns = projectableNodes.map(nodes => this.$compile(nodes));\n\n
this.element.empty !();\n linkFns.forEach(linkFn => {\n linkFn(this.scope, (clone: Node[]) => {\n
compiledProjectableNodes.push(clone);\n this.element.append !(clone);\n });\n });\n\n return
compiledProjectableNodes;\n }\n\n createComponent(projectableNodes: Node[][]): {\n const providers:
StaticProvider[] = [{provide: $$SCOPE, useValue: this.componentScope}];\n const childInjector =
Injector.create(\n
{providers: providers, parent: this.parentInjector, name: 'DowngradeComponentAdapter'});\n\n
this.componentRef =\n this.componentFactory.create(childInjector, projectableNodes, this.element[0]);\n
this.viewChangeDetector = this.componentRef.injector.get(ChangeDetectorRef);\n this.changeDetector =

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this.componentRef.changeDetectorRef;\n  this.component = this.componentRef.instance;\n\n  // testability hook is
commonly added during component bootstrap in\n  // packages/core/src/application_ref.bootstrap()\n  // in
downgraded application, component creation will take place here as well as adding the\n  // testability hook.\n
const testability = this.componentRef.injector.get(Testability, null);\n  if (testability) {\n
this.componentRef.injector.get(TestabilityRegistry)\n
.registerApplication(this.componentRef.location.nativeElement, testability);\n  }\n\n
hookupNgModel(this.ngModel, this.component);\n  }\n\n  setupInputs(manuallyAttachView:
boolean, propagateDigest = true): void {\n  const attrs = this.attrs;\n  const inputs = this.componentFactory.inputs
|| [];\n  for (let i = 0; i < inputs.length; i++) {\n  const input = new PropertyBinding(inputs[i].propName,
inputs[i].templateName);\n  let expr: string|null = null;\n  if (attrs.hasOwnProperty(input.attr)) {\n  const
observeFn = (prop => {\n  let prevValue = INITIAL_VALUE;\n  return (currValue: any) => {\n  //
Initially, both `$observe()` and `$watch()` will call this function.\n  if (!strictEquals(prevValue, currValue))
{\n  if (prevValue === INITIAL_VALUE) {\n  prevValue = currValue;\n  }\n\n
this.updateInput(prop, prevValue, currValue);\n  prevValue = currValue;\n  }\n  };\n
})(input.prop);\n  attrs.$observe(input.attr, observeFn);\n\n  // Use `$watch()` (in addition to `$observe()`) in
order to initialize
the input in time\n  // for `$ngOnChanges()`. This is necessary if we are already in a `$digest`, which means
that\n  // `$ngOnChanges()` (which is called by a watcher) will run before the `$observe()` callback.\n  let
unwatch: Function|null = this.componentScope.$watch(() => {\n  unwatch !();\n  unwatch = null;\n
observeFn(attrs[input.attr]);\n  });\n  } else if (attrs.hasOwnProperty(input.bindAttr)) {\n  expr =
attrs[input.bindAttr];\n  } else if (attrs.hasOwnProperty(input.bracketAttr)) {\n  expr =
attrs[input.bracketAttr];\n  } else if (attrs.hasOwnProperty(input.bindonAttr)) {\n  expr =
attrs[input.bindonAttr];\n  } else if (attrs.hasOwnProperty(input.bracketParenAttr)) {\n  expr =
attrs[input.bracketParenAttr];\n  }\n  if (expr != null) {\n  const watchFn =\n  (prop => (currValue:
any, prevValue: any) =>\n  this.updateInput(prop, prevValue, currValue))(input.prop);\n
this.componentScope.$watch(expr, watchFn);\n  }\n  }\n\n  // Invoke `ngOnChanges()` and Change
Detection (when necessary)\n  const detectChanges = () => this.changeDetector.detectChanges();\n  const
prototype = this.componentFactory.componentType.prototype;\n  this.implementsOnChanges = !!((prototype &&
(<OnChanges>prototype).ngOnChanges);\n  this.componentScope.$watch(() => this.inputChangeCount,
this.wrapCallback(() => {\n  // Invoke `ngOnChanges()`\n  if (this.implementsOnChanges) {\n  const
inputChanges = this.inputChanges;\n  this.inputChanges = {};\n
(<OnChanges>this.component).ngOnChanges(inputChanges !);\n  }\n\n
this.viewChangeDetector.markForCheck();\n\n  // If opted out of propagating digests, invoke change detection
when inputs change.\n  if (!propagateDigest) {\n  detectChanges();\n  }\n  });\n\n  // If not opted out of
propagating digests, invoke change detection on every digest\n
if (propagateDigest) {\n  this.componentScope.$watch(this.wrapCallback(detectChanges));\n  }\n\n  // If
necessary, attach the view so that it will be dirty-checked.\n  // (Allow time for the initial input values to be set and
`ngOnChanges()` to be called.)\n  if (manuallyAttachView || !propagateDigest) {\n  let unwatch: Function|null =
this.componentScope.$watch(() => {\n  unwatch !();\n  unwatch = null;\n\n  const appRef =
this.parentInjector.get<ApplicationRef>(ApplicationRef);\n
appRef.attachView(this.componentRef.hostView);\n  });\n  }\n\n  setupOutputs() {\n  const attrs =
this.attrs;\n  const outputs = this.componentFactory.outputs || [];\n  for (let j = 0; j < outputs.length; j++) {\n
const output = new PropertyBinding(outputs[j].propName, outputs[j].templateName);\n  const bindonAttr =
output.bindonAttr.substring(0, output.bindonAttr.length - 6);\n  const bracketParenAttr =\n
`${output.bracketParenAttr.substring(2,
output.bracketParenAttr.length - 8)}}`; \n  // order below is important - first update bindings then evaluate
expressions\n  if (attrs.hasOwnProperty(bindonAttr)) {\n  this.subscribeToOutput(output, attrs[bindonAttr],
true);\n  }\n  if (attrs.hasOwnProperty(bracketParenAttr)) {\n  this.subscribeToOutput(output,

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attrs[bracketParenAttr], true);\n    }\n    if (attrs.hasOwnProperty(output.onAttr)) {\n
this.subscribeToOutput(output, attrs[output.onAttr]);\n    }\n    if (attrs.hasOwnProperty(output.parenAttr)) {\n
this.subscribeToOutput(output, attrs[output.parenAttr]);\n    }\n    }\n\n    private subscribeToOutput(output:
PropertyBinding, expr: string, isAssignment: boolean = false) {\n    const getter = this.$parse(expr);\n    const setter
= getter.assign;\n    if (isAssignment && !setter) {\n    throw new Error('Expression '${expr}' is not
assignable!');\n    }\n    const emitter = this.component[output.prop]
as EventEmitter<any>;\n    if (emitter) {\n    emitter.subscribe({\n    next: isAssignment ? (v: any) => setter
!(this.scope, v) :\n    (v: any) => getter(this.scope, {'$event': v})\n    });\n    } else {\n    throw new
Error(\n    `Missing emitter '${output.prop}' on component
'${getTypeName(this.componentFactory.componentType)}'`);\n    }\n    }\n\n    registerCleanup() {\n    const
testabilityRegistry = this.componentRef.injector.get(TestabilityRegistry);\n    const destroyComponentRef =
this.wrapCallback(() => this.componentRef.destroy());\n    let destroyed = false;\n\n    this.element.on !('$destroy', ()
=> this.componentScope.$destroy());\n    this.componentScope.$on('$destroy', () => {\n    if (!destroyed) {\n
destroyed = true;\n    testabilityRegistry.unregisterApplication(this.componentRef.location.nativeElement);\n
destroyComponentRef();\n    }\n    });\n    }\n\n    getInjector(): Injector { return this.componentRef.injector;
}\n\n    private updateInput(prop: string, prevValue: any, currValue: any) {\n    if (this.implementsOnChanges) {\n
this.inputChanges[prop] = new SimpleChange(prevValue, currValue, prevValue === currValue);\n    }\n\n    this.inputChangeCount++;\n    this.component[prop] = currValue;\n    }\n\n    groupProjectableNodes() {\n    let
ngContentSelectors = this.componentFactory.ngContentSelectors;\n    return
groupNodesBySelector(ngContentSelectors, this.element.contents !());\n    }\n\n    /**\n     * Group a set of DOM nodes
into `ngContent` groups, based on the given content selectors.\n     */\n\n    export function
groupNodesBySelector(ngContentSelectors: string[], nodes: Node[]): Node[][] {\n    const projectableNodes:
Node[][] = [];\n    let wildcardNgContentIndex: number;\n\n    for (let i = 0, ii = ngContentSelectors.length; i < ii; ++i)
{\n    projectableNodes[i] = [];\n    }\n\n    for (let j = 0, jj = nodes.length; j < jj; ++j) {\n    const node = nodes[j];\n
const ngContentIndex = findMatchingNgContentIndex(node,
ngContentSelectors);\n    if (ngContentIndex != null) {\n    projectableNodes[ngContentIndex].push(node);\n    }\n
}\n\n    return projectableNodes;\n    }\n\n    function findMatchingNgContentIndex(element: any, ngContentSelectors:
string[]): number|null {\n    const ngContentIndices: number[] = [];\n    let wildcardNgContentIndex: number = -1;\n
for (let i = 0; i < ngContentSelectors.length; i++) {\n    const selector = ngContentSelectors[i];\n    if (selector ===
'*') {\n    wildcardNgContentIndex = i;\n    } else {\n    if (matchesSelector(element, selector)) {\n
ngContentIndices.push(i);\n    }\n    }\n    ngContentIndices.sort();\n\n    if (wildcardNgContentIndex !== -1) {\n
ngContentIndices.push(wildcardNgContentIndex);\n    }\n    return ngContentIndices.length ? ngContentIndices[0] :
null;\n    }\n\n    let _matches: (this: any, selector: string) => boolean;\n\n    function matchesSelector(el: any, selector:
string): boolean {\n    if (!_matches) {\n    const
elProto = <any>Element.prototype;\n    _matches = elProto.matches || elProto.matchesSelector ||
elProto.mozMatchesSelector ||\n    elProto.msMatchesSelector || elProto.oMatchesSelector ||
elProto.webkitMatchesSelector;\n    }\n    return el.nodeType === Node.ELEMENT_NODE ? _matches.call(el,
selector) : false;\n    }\n\n    /**\n     * @license\n     * Copyright Google Inc. All Rights Reserved.\n     * Use of this source
code is governed by an MIT-style license that can be\n     * found in the LICENSE file at https://angular.io/license\n     */\n\n    import {isFunction} from './util';\n\n    export interface Thenable<T> { then(callback: (value: T) => any): any;
}\n\n    export function isThenable<T>(obj: unknown): obj is Thenable<T> {\n    return !!obj && isFunction((obj as
any).then);\n    }\n\n    /**\n     * Synchronous, promise-like object.\n     */\n\n    export class SyncPromise<T> {\n    protected
value: T|undefined;\n    private resolved = false;\n    private callbacks: ((value: T) => unknown)[] = [];\n\n    static
all<T>(valuesOrPromises: (T|Thenable<T>)[]):
SyncPromise<T[]> {\n    const aggrPromise = new SyncPromise<T[]>();\n\n    let resolvedCount = 0;\n    const
results: T[] = [];\n    const resolve = (idx: number, value: T) => {\n    results[idx] = value;\n    if (++resolvedCount
=== valuesOrPromises.length) aggrPromise.resolve(results);\n    };\n\n    valuesOrPromises.forEach((p, idx) => {\n
if (isThenable(p)) {\n    p.then(v => resolve(idx, v));\n    } else {\n    resolve(idx, p);\n    }\n    });\n    }\n
}

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return agrPromise;\n }
\n\n resolve(value: T): void {\n // Do nothing, if already resolved.\n if (this.resolved)
return;\n\n this.value = value;\n this.resolved = true;\n\n // Run the queued callbacks.\n
this.callbacks.forEach(callback => callback(value));\n this.callbacks.length = 0;\n }\n\n then(callback: (value: T)
=> unknown): void {\n if (this.resolved) {\n callback(this.value !);\n } else {\n
this.callbacks.push(callback);\n }\n }\n }\n\n", "/*\n *
@license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-
style license that can be\n * found in the LICENSE file at https://angular.io/license\n *\n\nimport
{ComponentFactory, ComponentFactoryResolver, Injector, NgZone, Type} from '@angular/core';\n\nimport
{IAnnotatedFunction, IAttributes, IAugmentedJQuery, ICompileService, IDirective, IInjectorService,
INgModelController, IParseService, IScope} from './angular1';\n\nimport {$COMPILE, $INJECTOR, $PARSE,
INJECTOR_KEY, LAZY_MODULE_REF, REQUIRE_INJECTOR, REQUIRE_NG_MODEL} from
'./constants';\n\nimport {DowngradeComponentAdapter} from './downgrade_component_adapter';\n\nimport
{SyncPromise, Thenable} from './promise_util';\n\nimport {LazyModuleRef, UpgradeAppType, controllerKey,
getDowngradedModuleCount, getTypeName, getUpgradeAppType, validateInjectionKey} from './util';\n\n\n/*\n *
@description\n *\n * A helper function that allows an Angular component to be used from AngularJS.\n *\n * *Part
of the [upgrade/static](api?query=upgrade%2Fstatic)\n * library for hybrid upgrade apps that support AOT
compilation*\n *\n * This helper function returns a factory function to be used for registering\n * an AngularJS
wrapper directive for "downgrading" an Angular component.\n *\n * @usageNotes\n * ### Examples\n *\n * Let's
assume that you have an Angular component called `ng2Heroes` that needs\n * to be made available in AngularJS
templates.\n *\n * {@example upgrade/static/ts/full/module.ts region="ng2-heroes"}\n *\n * We must create an
AngularJS [directive](https://docs.angularjs.org/guide/directive)\n * that will make this Angular component
available inside AngularJS templates.\n * The `downgradeComponent()` function returns a factory function that
we\n * can use to define the AngularJS directive that wraps the "downgraded" component.\n *\n * {@example
upgrade/static/ts/full/module.ts region="ng2-heroes-wrapper"}\n *\n * For more details and examples on
downgrading Angular
components to AngularJS components please\n * visit the [Upgrade guide](guide/upgrade#using-angular-
components-from-angularjs-code).\n *\n * @param info contains information about the Component that is being
downgraded:\n *\n * - `component: Type<any>`: The type of the Component that will be downgraded\n * -
`downgradedModule?: string`: The name of the downgraded module (if any) that the component\n * "belongs to",
as returned by a call to `downgradeModule()`. It is the module, whose\n * corresponding Angular module will be
bootstrapped, when the component needs to be instantiated.\n * <br />\n * (This option is only necessary when
using `downgradeModule()` to downgrade more than one\n * Angular module.)\n * - `propagateDigest?: boolean`:
Whether to perform { @link ChangeDetectorRef#detectChanges\n * change detection} on the component on
every\n * [$digest](https://docs.angularjs.org/api/ng/type/$rootScope.Scope#$digest). If set to `false`,\n * change
detection will
still be performed when any of the component's inputs changes.\n * (Default: true)\n *\n * @returns a factory
function that can be used to register the component in an\n * AngularJS module.\n *\n * @publicApi\n *\n\nexport
function downgradeComponent(info: {\n component: Type<any>;\n downgradedModule?: string;\n propagateDigest?:
boolean;\n /** @deprecated since v4. This parameter is no longer used *\n inputs?: string[];\n /** @deprecated
since v4. This parameter is no longer used *\n outputs?: string[];\n /** @deprecated since v4. This parameter is
no longer used *\n selectors?: string[];\n }): any /* angular.IInjectable */ {\n const directiveFactory:
IAnnotatedFunction = function(\n $compile: ICompileService, $injector: IInjectorService, $parse:
IParseService): IDirective {\n // When using `downgradeModule()`, we need to handle certain things specially. For
example:\n // - We always need to attach the component view to the `ApplicationRef` for it to be\n // dirty-
checked.\n
// - We need to ensure callbacks to Angular APIs (e.g. change detection) are run inside the\n // Angular zone.\n
// NOTE: This is not needed, when using `UpgradeModule`, because `$digest()` will be run\n // inside the
Angular zone (except if explicitly escaped, in which case we shouldn't\n // force it back in).\n const

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isNgUpgradeLite = getUpgradeAppType($injector) === UpgradeAppType.Lite;\n  const wrapCallback: <T>(cb: ()
=> T) => typeof cb =\n    !isNgUpgradeLite ? cb => cb : cb => () => NgZone.isInAngularZone() ? cb() :
ngZone.run(cb);\n  let ngZone: NgZone;\n\n  // When downgrading multiple modules, special handling is needed
wrt injectors.\n  const hasMultipleDowngradedModules =\n    isNgUpgradeLite &&
(getDowngradedModuleCount($injector) > 1);\n\n  return {\n    restrict: 'E',\n    terminal: true,\n    require:
[REQUIRE_INJECTOR, REQUIRE_NG_MODEL],\n    link: (scope: IScope, element: IAugmentedJQuery,
attrs: IAttributes, required: any[]) => {\n      // We might have to compile the contents asynchronously, because
this might have been\n      // triggered by `UpgradeNgIComponentAdapterBuilder`, before the Angular templates
have\n      // been compiled.\n\n      const ngModel: INgModelController = required[1];\n      const parentInjector:
Injector|Thenable<Injector>|undefined = required[0];\n      let moduleInjector:
Injector|Thenable<Injector>|undefined = undefined;\n      let ranAsync = false;\n\n      if (!parentInjector ||
hasMultipleDowngradedModules) {\n        const downgradedModule = info.downgradedModule || "";\n        const
lazyModuleRefKey = `${LAZY_MODULE_REF}${downgradedModule}`;\n        const attemptedAction =
`instantiating component '${getTypeName(info.component)}';\n        validateInjectionKey($injector,
downgradedModule, lazyModuleRefKey, attemptedAction);\n        const lazyModuleRef =
$injector.get(lazyModuleRefKey) as LazyModuleRef;\n
        moduleInjector = lazyModuleRef.injector || lazyModuleRef.promise as Promise<Injector>;\n      }\n\n      //
Notes:\n      /\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      /\n      // There are basically three cases:\n      // - 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      // - 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
      // - If there is a parent component, but it may belong to a different `NgModule`, then we\n      // use the
`parentInjector` as `finalParentInjector` and this downgraded component's\n      // declaring `NgModule`'s injector
as `finalModuleInjector`.\n      // Note 1: If the `NgModule` is already bootstrapped, we just get its injector (we
don't\n      // bootstrap again).\n      // Note 2: It is possible that (while there are multiple downgraded
modules) this\n      // downgraded component and its parent component both belong to the same
NgModule.\n      // In that case,
we could have used the `parentInjector` as both\n      // `finalModuleInjector` and `finalParentInjector`, but
(for simplicity) we are\n      // treating this case as if they belong to different `NgModule`s. That doesn't\n
// really affect anything, since `parentInjector` has `moduleInjector` as ancestor\n      // and trying to
resolve `ComponentFactoryResolver` from either one will return\n      // the same instance.\n\n      // If there
is a parent component, use its injector as parent injector.\n      // If this is a "top-level" Angular component, use the
module injector.\n      const finalParentInjector = parentInjector || moduleInjector !;\n\n      // If this is a "top-
level" Angular component or the parent component may belong to a\n      // different `NgModule`, use the module
injector for module-specific dependencies.\n      // If there is a parent component that belongs to the same
`NgModule`,
use its injector.\n      const finalModuleInjector = moduleInjector || parentInjector !;\n      const doDowngrade =
(injector: Injector, moduleInjector: Injector) => {\n        // Retrieve `ComponentFactoryResolver` from the injector
tied to the `NgModule` this\n        // component belongs to.\n        const componentFactoryResolver:
ComponentFactoryResolver =\n          moduleInjector.get(ComponentFactoryResolver);\n        const
componentFactory: ComponentFactory<any> =\n

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componentFactoryResolver.resolveComponentFactory(info.component) !;\n      if (!componentFactory) {\n
  throw new Error(`Expecting ComponentFactory for: ${getTypeName(info.component)}`);\n      }\n      const
injectorPromise = new ParentInjectorPromise(element);\n      const facade = new
DowngradeComponentAdapter(\n        element, attrs, scope, ngModel, injector, $injector, $compile, $parse,\n        componentFactory, wrapCallback);\n
      const projectableNodes = facade.compileContents();\n      facade.createComponent(projectableNodes);\n
facade.setupInputs(isNgUpgradeLite, info.propagateDigest);\n      facade.setupOutputs();\n
facade.registerCleanup();\n      injectorPromise.resolve(facade.getInjector());\n      if (ranAsync) {\n
// If this is run async, it is possible that it is not run inside a\n      // digest and initial input values will not be
detected.\n      scope.$evalAsync(() => {});\n      }\n      }\n      const downgradeFn =\n
!isNgUpgradeLite ? doDowngrade : (pInjector: Injector, mInjector: Injector) => {\n      if (!ngZone) {\n
ngZone = pInjector.get(NgZone);\n      }\n      wrapCallback(() => doDowngrade(pInjector,\n
mInjector));\n      }\n      // NOTE:\n      // Not using `ParentInjectorPromise.all()` (which is inherited from
`SyncPromise`), because\n      //
Closure Compiler (or some related tool) complains:\n      // `TypeError:
...$src$downgrade_component_ParentInjectorPromise.all is not a function`\n
SyncPromise.all([finalParentInjector, finalModuleInjector])\n      .then(([pInjector, mInjector]) =>
downgradeFn(pInjector, mInjector));\n      ranAsync = true;\n      }\n      }\n      }\n      // bracket-notation because of
closure - see #14441\n      directiveFactory['$inject'] = [$COMPILER, $INJECTOR, $PARSE];\n      return
directiveFactory;\n      }\n      }\n      * Synchronous promise-like object to wrap parent injectors,\n      * to preserve the
synchronous nature of AngularJS's `$compile`.\n      * ^\n      class ParentInjectorPromise extends SyncPromise<Injector>
{\n      private injectorKey: string = controllerKey(INJECTOR_KEY);\n      constructor(private element:
IAugmentedJQuery) {\n      super();\n      // Store the promise on the element.\n      element.data !(this.injectorKey,\n
this);\n      }\n      resolve(injector: Injector): void {\n      // Store the real injector
on the element.\n      this.element.data !(this.injectorKey, injector);\n      // Release the element to prevent memory
leaks.\n      this.element = null !;\n      // Resolve the promise.\n      super.resolve(injector);\n      }\n      }\n      }\n      *
@license\n      * Copyright Google Inc. All Rights Reserved.\n      * Use of this source code is governed by an MIT-
style license that can be\n      * found in the LICENSE file at https://angular.io/license\n      * ^\n      * import {Injector} from
'@angular/core';\n      * import {IInjectorService} from './angular1';\n      * import {$INJECTOR, INJECTOR_KEY} from
'./constants';\n      * import {getTypeName, isFunction, validateInjectionKey} from './util';\n      * ^\n      * @description\n      * ^\n      * A helper function to allow an Angular service to be accessible from AngularJS.\n      * ^\n      * *Part of the
[upgrade/static](api?query=upgrade%2Fstatic)\n      * library for hybrid upgrade apps that support AOT compilation*\n      * ^\n      * This helper function returns a factory function that provides access to the Angular\n      * service identified
by the `token` parameter.\n      * ^\n      * @usageNotes\n      * ### Examples\n      * ^\n      * First ensure that the service to be
downgraded is provided in an `NgModule`\n      * that will be part of the upgrade application. For example, let's assume
we have\n      * defined `HeroesService`\n      * ^\n      * {@example upgrade/static/ts/full/module.ts region="ng2-heroes-
service"}\n      * ^\n      * and that we have included this in our upgrade app `NgModule`\n      * ^\n      * {@example
upgrade/static/ts/full/module.ts region="ng2-module"}\n      * ^\n      * Now we can register the `downgradeInjectable`
factory function for the service\n      * on an AngularJS module.\n      * ^\n      * {@example upgrade/static/ts/full/module.ts
region="downgrade-ng2-heroes-service"}\n      * ^\n      * Inside an AngularJS component's controller we can get hold of
the\n      * downgraded service via the name we gave when downgrading.\n      * ^\n      * {@example
upgrade/static/ts/full/module.ts region="example-app"}\n      * ^\n      * <div class="alert is-important">\n      * ^\n      * When
using `downgradeModule`, downgraded
injectables will not be available until the Angular\n      * module that provides them is instantiated. In order to be safe,
you need to ensure that the\n      * downgraded injectables are not used anywhere _outside_ the part of the app where
it is\n      * guaranteed that their module has been instantiated.\n      * ^\n      * For example, it is _OK_ to use a downgraded
service in an upgraded component that is only used\n      * from a downgraded Angular component provided by the
same Angular module as the injectable, but\n      * it is _not OK_ to use it in an AngularJS component that may be

```





```

component template from '${url}' returned '${status}: ${response}');\n      }\n    });\n  } else {\n    throw new Error(`Directive '${directive.name}' is not a component, it is missing template.`);\n  }\n}\n\nbuildController(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  this.$element.data !(controllerKey(this.directive.name !), controller);\n  return
controller;\n}\n\ncompileTemplate(template?: string): ILinkFn {\n  if (template === undefined) {\n    template
=\n    UpgradeHelper.getTemplate(this.$injector, this.directive, false, this.$element) as string;\n  }\n  return
this.compileHtml(template);\n}\n\nonDestroy($scope: IScope, controllerInstance?: any) {\n  if
(controllerInstance && isFunction(controllerInstance.$onDestroy)) {\n    controllerInstance.$onDestroy();\n  }\n  $scope.$destroy();\n  // Clean the jQuery/jqLite data on the component+child elements.\n
  // Equivalent to how jQuery/jqLite invoke `cleanData` on an Element (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#L306-L312\n
  // `cleanData` will invoke the AngularJS `$destroy` DOM event\n  //
https://github.com/angular/angular.js/blob/26ddc5f830f902a3d22f4b2aab70d86d4d688c82/src/Angular.js#L1911-L1924\n
  angularElement.cleanData([this.element]);\n
  angularElement.cleanData(this.element.querySelectorAll('*'));\n}\n\nprepareTransclusion(): ILinkFn|undefined
{\n  const transclude = this.directive.transclude;\n  const contentChildNodes = this.extractChildNodes();\n  const
attachChildrenFn: ILinkFn = (scope, cloneAttachFn) => {\n    // Since AngularJS v1.5.8, `cloneAttachFn` will try
to destroy the transclusion scope if\n    // `$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  if
(transclude) {\n    const slots = Object.create(null);\n    if (typeof transclude === 'object') {\n      $template =
[];\n      const slotMap = Object.create(null);\n      const filledSlots = Object.create(null);\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        slotMap[selector] = slotName;\n        slots[slotName] = null;\n        //
`null`: Defined but not yet filled.\n        filledSlots[slotName]
= optional; // Consider optional slots as filled.\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          $template.push(node);\n        }\n      });\n      // Check for required slots that were not
filled.\n      Object.keys(filledSlots).forEach(slotName => {\n        if (!filledSlots[slotName]) {\n          throw
new Error(`Required transclusion slot '${slotName}' on directive: ${this.name}`);\n        }\n      });\n      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    // Attach `$$slots` to default slot
transclude fn.\n    attachChildrenFn.$$slots = slots;\n    // AngularJS v1.6+ ignores empty or whitespace-only
transcluded text nodes. But Angular\n    // removes all text content after the first interpolation and updates it later,
after\n    // evaluating the expressions. This would result in AngularJS failing to recognize text\n    // 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+

```
$template.forEach(node => {\n    if (node.nodeType === Node.TEXT_NODE && !node.nodeValue) {\n        node.nodeValue = '\\u200C';\n    }\n});\n\nreturn attachChildrenFn;\n}\n\nresolveAndBindRequiredControllers(controllerInstance: IControllerInstance|null) {\n    const directiveRequire = this.getDirectiveRequire();\n    const requiredControllers = this.resolveRequire(directiveRequire);\n\n    if (controllerInstance && this.directive.bindToController && isMap(directiveRequire)) {\n        const requiredControllersMap = requiredControllers as {[key: string]: IControllerInstance};\n        Object.keys(requiredControllersMap).forEach(key => {\n            controllerInstance[key] = requiredControllersMap[key];\n        });\n    }\n\n    return requiredControllers;\n}\n\nprivate compileHtml(html: string): ILinkFn {\n    this.element.innerHTML = html;\n    return this.$compile(this.element.childNodes);\n}\n\nprivate extractChildNodes(): Node[] {\n    const childNodes: Node[] = [];\n    let childNode: Node|null;\n\n    while (childNode = this.element.firstChild) {\n        this.element.removeChild(childNode);\n        childNodes.push(childNode);\n    }\n\n    return childNodes;\n}\n\nprivate getDirectiveRequire(): DirectiveRequireProperty {\n    const require = this.directive.require || (this.directive.controller && this.directive.name) !;\n\n    if (isMap(require)) {\n        Object.keys(require).forEach(key => {\n            const value = require[key];\n            const match = value.match(REQUIRE_PREFIX_RE) !;\n            const name = value.substring(match[0].length);\n\n            if (!name) {\n                require[key] = match[0] + key;\n            }\n        });\n    }\n\n    return require;\n}\n\nprivate resolveRequire(require: DirectiveRequireProperty, controllerInstance?: any):\n    SingleOrListOrMap<IControllerInstance>|null {\n    if (!require) {\n        return null;\n    } else if (Array.isArray(require)) {\n        return require.map(req => this.resolveRequire(req));\n    } else if (typeof require === 'object') {\n        const value: {[key: string]: IControllerInstance} = {};\n        Object.keys(require).forEach(key => value[key] = this.resolveRequire(require[key]) !);\n        return value;\n    } else if (typeof require === 'string') {\n        const match = require.match(REQUIRE_PREFIX_RE) !;\n        const inheritType = match[1] || match[3];\n        const name = require.substring(match[0].length);\n        const isOptional = !!match[2];\n        const searchParents = !!inheritType;\n        const startOnParent = inheritType === '^';\n        const ctrlKey = controllerKey(name);\n        const elem = startOnParent ? this.$element.parent !() : this.$element;\n        const value = searchParents ? elem.inheritedData !(ctrlKey) : elem.data !(ctrlKey);\n\n        if (!value && !isOptional) {\n            throw new Error(`Unable to find required '${require}' in upgraded directive '${this.name}'.`);\n        }\n\n        return value;\n    } else {\n        throw new Error(`Unrecognized 'require' syntax on upgraded directive '${this.name}':\n        ${require}`);\n    }\n}\n\nfunction getOrCall<T>(property: T | Function, ...args: any[]): T {\n    return isFunction(property) ? property(...args) : property;\n}\n\n// NOTE: Only works for `typeof T !== 'object'.\nfunction isMap<T>(value: SingleOrListOrMap<T>): value is {[key: string]: T} {\n    return value && !Array.isArray(value) && typeof value === 'object';\n}\n\nfunction notSupported(name: string, feature: string) {\n    throw new Error(`Upgraded directive '${name}' contains unsupported feature: '${feature}'.`);\n}\n\n"/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport {Directive, DoCheck, ElementRef, EventEmitter, Inject, Injector, OnChanges, OnDestroy, OnInit, SimpleChange, SimpleChanges, Type} from '@angular/core';\nimport {IAttributes, IDirective, IDirectivePrePost, IInjectorService, ILinkFn, IScope, ITranscludeFunction} from '../common/src/angular1';\nimport {$SCOPE} from '../common/src/constants';\nimport {IBindingDestination, IControllerInstance, UpgradeHelper} from '../common/src/upgrade_helper';\nimport {isFunction, strictEquals} from '../common/src/util';\n\nconst CAMEL_CASE = /([A-Z])/g;\nconst INITIAL_VALUE = {\n    __UNINITIALIZED__: true\n};\nconst NOT_SUPPORTED: any = 'NOT_SUPPORTED';\n\nexport class UpgradeNg1ComponentAdapterBuilder {\n    // TODO(issue/24571): remove '!'.\n    type!: Type<any>;\n    inputs: string[] = [];\n    inputsRename: string[] = [];\n    outputs: string[] = [];\n    outputsRename: string[] = [];\n    propertyOutputs: string[] = [];\n    checkProperties: string[] = [];\n    propertyMap: {[name: string]: string} = {};\n}
```

```

directive: IDirective|null = null;\n // TODO(issue/24571): remove '!.\n template !: string;\n\n constructor(public
name: string)
{\n  const selector =\n    name.replace(CAMEL_CASE, (all: string, next: string) => '-' + next.toLowerCase());\n
  const self = this;\n\n  // Note: There is a bug in TS 2.4 that prevents us from\n  // inlining this into @Directive\n  // TODO(tbosch): find or file a bug against TypeScript for this.\n  const directive = {selector: selector, inputs:
this.inputsRename, outputs: this.outputsRename};\n\n  @Directive({jit: true, ...directive})\n  class MyClass
extends UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck,\n    OnDestroy {\n  constructor(@Inject($SCOPE) scope: IScope, injector: Injector, elementRef: ElementRef) {\n    super(\n
new UpgradeHelper(injector, name, elementRef, self.directive || undefined), scope,\n      self.template,
self.inputs, self.outputs, self.propertyOutputs, self.checkProperties,\n        self.propertyMap) as any;\n    }\n  }\n
  this.type = MyClass;\n  }\n\n  extractBindings() {\n    const
btCIsObject = typeof this.directive !.bindToController === 'object';\n    if (btCIsObject &&
Object.keys(this.directive !.scope !).length) {\n      throw new Error(\n        `Binding definitions on scope and
controller at the same time are not supported.`);\n    }\n\n    const context = (btCIsObject) ? this.directive
!.bindToController : this.directive !.scope;\n\n    if (typeof context === 'object') {\n
Object.keys(context).forEach(propName => {\n      const definition = context[propName];\n      const
bindingType = definition.charAt(0);\n      const bindingOptions = definition.charAt(1);\n      const attrName =
definition.substring(bindingOptions === '?' ? 2 : 1) || propName;\n\n      // QUESTION: What about `=*`? Ignore?
Throw? Support?\n      const inputName = `input_${attrName}`;\n      const inputNameRename =
`${inputName}: ${attrName}`;\n      const outputName = `output_${attrName}`;\n      const outputNameRename
= `${outputName}: ${attrName}`;\n
      const outputNameRenameChange = `${outputNameRename}Change`;\n      switch (bindingType) {\n
case '@':\n      case '<':\n      this.inputs.push(inputName);\n
this.inputsRename.push(inputNameRename);\n      this.propertyMap[inputName] = propName;\n      break;\n
      case '=':\n      this.inputs.push(inputName);\n      this.inputsRename.push(inputNameRename);\n
this.propertyMap[inputName] = propName;\n\n      this.outputs.push(outputName);\n
this.outputsRename.push(outputNameRenameChange);\n      this.propertyMap[outputName] = propName;\n\n
      this.checkProperties.push(propName);\n      this.propertyOutputs.push(outputName);\n      break;\n
      case '&':\n      this.outputs.push(outputName);\n      this.outputsRename.push(outputNameRename);\n
this.propertyMap[outputName] = propName;\n      break;\n      default:\n      let json =
JSON.stringify(context);\n      throw new Error(\n        `Unexpected mapping '${bindingType}' in '${json}'
in '${this.name}' directive.`);\n    }\n  }\n  }\n  }\n  }\n\n  /**\n   * Upgrade ng1 components into Angular.\n
*/\n  static resolve(\n    exportedComponents: {[name: string]: UpgradeNg1ComponentAdapterBuilder},\n
@Injector: IInjectorService): Promise<string[]> {\n    const promises = Object.keys(exportedComponents).map(name
=> {\n      const exportedComponent = exportedComponents[name];\n      exportedComponent.directive =
UpgradeHelper.getDirective($injector, name);\n      exportedComponent.extractBindings();\n\n      return Promise\n        .resolve(UpgradeHelper.getTemplate($injector, exportedComponent.directive, true))\n        .then(template =>
exportedComponent.template = template);\n    });\n\n    return Promise.all(promises);\n  }\n  }\n\n  class
UpgradeNg1ComponentAdapter implements OnInit, OnChanges, DoCheck {\n    private controllerInstance:
IControllerInstance|null = null;\n    destinationObj: IBindingDestination|null = null;\n    checkLastValues: any[] = [];\n
directive: IDirective;\n    element: Element;\n    $element: any = null;\n    componentScope: IScope;\n\n    constructor(\n
private helper: UpgradeHelper, scope: IScope, private template: string,\n      private inputs: string[], private outputs:
string[], private propOuts: string[],\n      private checkProperties: string[], private propertyMap: {[key: string]:
string}) {\n      this.directive = helper.directive;\n      this.element = helper.element;\n      this.$element =
helper.$element;\n      this.componentScope = scope.$new(!this.directive.scope);\n      const controllerType =
this.directive.controller;\n      if (this.directive.bindToController && controllerType) {\n        this.controllerInstance
= this.helper.buildController(controllerType, this.componentScope);\n        this.destinationObj =
this.controllerInstance;\n      } else {\n        this.destinationObj = this.componentScope;\n

```

```

    }
    for (let i = 0; i < inputs.length; i++) {
      (this as any)[inputs[i]] = null;
    }
    for (let j = 0; j <
    outputs.length; j++) {
      const emitter = (this as any)[outputs[j]] = new EventEmitter<any>();
      if
      (this.propOuts.indexOf(outputs[j]) === -1) {
        this.setComponentProperty(
          outputs[j], (emitter =>
          (value: any) => emitter.emit(value))(emitter));
      }
    }
    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)
    const
    controllerType = this.directive.controller;
    const bindToController = this.directive.bindToController;
    if
    (controllerType && !bindToController) {
      this.controllerInstance
      = this.helper.buildController(controllerType, this.componentScope);
    }
    // Require other controllers
    const requiredControllers =
    this.helper.resolveAndBindRequiredControllers(this.controllerInstance);
    //
    Hook: $onInit
    if (this.controllerInstance && isFunction(this.controllerInstance.$onInit)) {
      this.controllerInstance.$onInit();
    }
    // Linking
    const link = this.directive.link;
    const preLink = typeof
    link === 'object' && link.pre;
    const postLink = typeof link === 'object' ? link.post : link;
    const attrs: IAttributes
    = NOT_SUPPORTED;
    const transcludeFn: ITranscludeFunction = NOT_SUPPORTED;
    if (preLink) {
      preLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
    }
    linkFn(this.componentScope, null!, {parentBoundTranscludeFn: attachChildNodes});
    if (postLink) {
      postLink(this.componentScope, this.$element, attrs, requiredControllers, transcludeFn);
    }
    // Hook: $postLink
    if (this.controllerInstance && isFunction(this.controllerInstance.$postLink)) {
      this.controllerInstance.$postLink();
    }
  }
  ngOnChanges(changes: SimpleChanges) {
    const ng1Changes:
    any = {};
    Object.keys(changes).forEach(name => {
      const change: SimpleChange = changes[name];
      this.setComponentProperty(name, change.currentValue);
      ng1Changes[this.propertyMap[name]] = change;
    });
    if (isFunction(this.destinationObj!.$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);
  }
  setComponentProperty(name: string, value: any) {
    this.destinationObj
    ![this.propertyMap[name]] = value;
  }
}

```

/\*\*
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 \* 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.

##### 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 where they are instantiated.
4. Angular components always execute inside Angular framework

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
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>)'
};
});
@Component({
selector: 'ng2-comp',
inputs: ['name'],
template: 'ng2[<ng1-hello
[title]="name">transclude</ng1-hello>(<ng-content></ng-content>)',
directives: []
})
class Ng2Component {}
@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 Deprecated since v5.
Use `upgrade/static` instead, which also supports [Ahead-of-Time compilation](guide/aot-compiler).

```

```

@publicApi
export class UpgradeAdapter {
private idPrefix: string =
`NG2_UPGRADE_${upgradeCount++}_`;
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.
@internal
private ng1ComponentsToBeUpgraded:
{[name: string]: UpgradeNg1ComponentAdapterBuilder} = {};
private upgradedProviders: StaticProvider[] =
[];
// TODO(issue/24571): remove '!'.
private ngZone!: NgZone;
// TODO(issue/24571): remove '!'.
private ng1Module

```

```

!: IModule;
private moduleRef: NgModuleRef<any>|null = null;
// TODO(issue/24571): remove '!'.
private
ng2BootstrapDeferred!: Deferred<IInjectorService>;
constructor(private ng2AppModule: Type<any>, private
compilerOptions?: CompilerOptions) {
if (!ng2AppModule) {
throw new Error('UpgradeAdapter
cannot be instantiated without an NgModule of the Angular app.');

```

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.

##### Mental Model

1. The component is instantiated by being listed in AngularJS template. This means that the host element is controlled by AngularJS, but the



```

= new UpgradeNg1ComponentAdapterBuilder(name)).type();\n }\n }\n\n
/**\n * Registers the adapter's AngularJS upgrade module for unit testing in AngularJS.\n * Use this instead of
`angular.mock.module()` to load the upgrade module into\n * the AngularJS testing injector.\n *\n *
@usageNotes\n * ### Example\n *\n * ```\n * const upgradeAdapter = new
UpgradeAdapter(MyNg2Module);\n *\n * // configure the adapter with upgrade/downgrade components and
services\n * upgradeAdapter.downgradeNg2Component(MyComponent);\n *\n * let upgradeAdapterRef:
UpgradeAdapterRef;\n * let $compile, $rootScope;\n *\n * // We must register the adapter before any calls to
`inject()`\n * beforeEach(() => {\n *   upgradeAdapterRef = upgradeAdapter.registerForNg1Tests(['heroApp']);\n
*\n * });\n *\n * beforeEach(inject((_ $compile_, _ $rootScope_) => {\n *   $compile = _ $compile_;\n *
$rootScope = _ $rootScope_;\n * }));\n *\n * it("says hello", (done) => {\n *   upgradeAdapterRef.ready(() =>
{\n *     const element = $compile("<my-component></my-component>")(rootScope);\n
*\n *     $rootScope.$apply();\n *     expect(element.html()).toContain("Hello World");\n *     done();\n *   });\n
*\n * });\n *\n * ```\n *\n * @param modules any AngularJS modules that the upgrade module should depend upon\n
*\n * @returns an `UpgradeAdapterRef`, which lets you register a `ready()` callback to\n * run assertions once the
Angular components are ready to test through AngularJS.\n *\n * registerForNg1Tests(modules?: string[]):
UpgradeAdapterRef {\n   const windowNgMock = (window as any)['angular'].mock;\n   if (!windowNgMock ||
!windowNgMock.module) {\n     throw new Error('Failed to find `angular.mock.module`');\n   }\n
this.declareNg1Module(modules);\n   windowNgMock.module(this.ng1Module.name);\n   const upgrade = new
UpgradeAdapterRef();\n   this.ng2BootstrapDeferred.promise.then(\n     (ng1Injector) => {\n
(<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 *\n * const module = angular.module('myExample', []);\n *\n * module.directive('ng2', adapter.downgradeNg2Component(Ng2));\n *\n * module.directive('ng1', function() {\n
*\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 *   ```\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(()
=> {\n     bootstrap(element, [this.ng1Module.name], config !); });\n   const ng1BootstrapPromise = new
Promise((resolve) => {\n     if (windowAngular.resumeBootstrap)\n
*\n *     {\n *       const originalResumeBootstrap: () => void = windowAngular.resumeBootstrap;\n
*\n *       windowAngular.resumeBootstrap = function() {\n *         windowAngular.resumeBootstrap =
originalResumeBootstrap;\n *         const r = windowAngular.resumeBootstrap.apply(this, arguments);\n
*\n *         resolve();\n *         return r;\n *       };\n *     } else {\n *       resolve();\n *     }\n *   });\n
*\n *   Promise.all([this.ng2BootstrapDeferred.promise, ng1BootstrapPromise]).then(([ng1Injector]) => {\n
*\n *     angularElement(element).data !(controllerKey(INJECTOR_KEY), this.moduleRef !.injector);\n *     this.moduleRef
!.injector.get<NgZone>(NgZone).run(\n *       () => {\n *         (<any>upgrade)._bootstrapDone(this.moduleRef,
ng1Injector); });\n *     }, onError);\n   return upgrade;\n }\n\n /**\n * Allows AngularJS service to be accessible

```



```

from Angular.\n * \n * @usageNotes\n * ### Example\n * \n * ``\n * class Login { ... }\n * class Server { ...
}\n * \n * @Injectable()\n
* class Example {\n * constructor(@Inject('server') server, login: Login) {\n * ... \n * }\n * }\n * \n *
const module = angular.module('myExample', []);\n * module.service('server', Server);\n * module.service('login',
Login);\n * \n * const adapter = new UpgradeAdapter(MyNg2Module);\n *
adapter.upgradeNg1Provider('server');\n * adapter.upgradeNg1Provider('login', {asToken: Login});\n * \n *
adapter.bootstrap(document.body, ['myExample']).ready((ref) => {\n * const example: Example =
ref.ng2Injector.get(Example);\n * });\n * \n * ``\n * /\n upgradeNg1Provider(name: string, options?: {asToken:
any}) {\n * const token = options && options.asToken || name;\n * this.upgradedProviders.push({\n * provide:
token,\n * useFactory: ($injector: IInjectorService) => $injector.get(name),\n * deps: [$INJECTOR]\n * });\n
}\n * \n * /**\n * Allows Angular service to be accessible from AngularJS.\n * \n * @usageNotes\n * ###
Example\n * \n
* ``\n * class Example {\n * }\n * \n * const adapter = new UpgradeAdapter(MyNg2Module);\n * \n * const
module = angular.module('myExample', []);\n * module.factory('example',
adapter.downgradeNg2Provider(Example));\n * \n * adapter.bootstrap(document.body, ['myExample']).ready((ref)
=> {\n * const example: Example = ref.ng1Injector.get('example');\n * });\n * \n * ``\n * /\n
downgradeNg2Provider(token: any): Function { return downgradeInjectable(token); }\n * \n * /**\n * Declare the
AngularJS upgrade module for this adapter without bootstrapping the whole\n * hybrid application.\n * \n * This
method is automatically called by `bootstrap()` and `registerForNg1Tests()`.\n * \n * @param modules The
AngularJS modules that this upgrade module should depend upon.\n * \n * @returns The AngularJS upgrade module
that is declared by this method\n * \n * @usageNotes\n * ### Example\n * \n * ``\n * const upgradeAdapter
= new UpgradeAdapter(MyNg2Module);\n
* upgradeAdapter.declareNg1Module(['heroApp']);\n * ``\n * /\n private declareNg1Module(modules: string[]
= []): IModule {\n * const delayApplyExps: Function[] = [];\n * let original$applyFn: Function;\n * let
rootScopePrototype: any;\n * let rootScope: IRootScopeService;\n * const upgradeAdapter = this;\n * const
ng1Module = this.ng1Module = angularModule(this.idPrefix, modules);\n * const platformRef =
platformBrowserDynamic();\n * \n * this.ngZone = new NgZone({enableLongStackTrace:
Zone.hasOwnProperty('longStackTraceZoneSpec')});\n * this.ng2BootstrapDeferred = new Deferred();\n
ng1Module.constant(UPGRADE_APP_TYPE_KEY, UpgradeAppType.Dynamic)\n
.factory(INJECTOR_KEY, () => this.moduleRef!.injector.get(Injector))\n * .factory(\n
LAZY_MODULE_REF,\n * [INJECTOR_KEY, (injector: Injector) => ({ injector } as LazyModuleRef)])\n
.constant(NG_ZONE_KEY, this.ngZone)\n * .factory(COMPILER_KEY, () => this.moduleRef
!.injector.get(Compiler))\n
.config([\n * $provide, '$injector',\n * (provide: IProvideService, ng1Injector: IInjectorService) => {\n
provide.decorator($ROOT_SCOPE, [\n * $delegate,\n * function(rootScopeDelegate:
IRootScopeService) {\n * // 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 $apply.\n * rootScopePrototype =
rootScopeDelegate.constructor.prototype;\n * if (rootScopePrototype.hasOwnProperty('$apply')) {\n
original$applyFn = rootScopePrototype.$apply;\n * rootScopePrototype.$apply = (exp: any) =>
delayApplyExps.push(exp);\n * } else {\n * throw new Error('Failed to find `'$apply`' on
`'$rootScope`!');\n * }\n * return rootScope = rootScopeDelegate;\n * }]\n * ]);\n * if
(ng1Injector.has($$TESTABILITY))\n
{\n * provide.decorator($$TESTABILITY, [\n * $delegate,\n * function(testabilityDelegate:
ITestabilityService) {\n * const originalWhenStable: Function = testabilityDelegate.whenStable;\n
// Cannot use arrow function below because we need the context\n * const newWhenStable = function(this:
unknown, callback: Function) {\n * originalWhenStable.call(this, function(this: unknown) {\n
const ng2Testability: Testability =\n * upgradeAdapter.moduleRef!.injector.get(Testability);\n
if (ng2Testability.isStable()) {\n * callback.apply(this, arguments);\n * } else {\n

```



```
= ng1Injector.get($ROOT_SCOPE);\n  this._readyFn && this._readyFn(this);\n }\n\n /**\n  * Register a  
callback function which is notified upon successful hybrid AngularJS / Angular\n  * application has been  
bootstrapped.\n  *\n  * The `ready` callback function is invoked inside the Angular zone, therefore it does not\n  * require a call to `$apply()`. \n  */\n public ready(fn: (upgradeAdapterRef: UpgradeAdapterRef) => void) {\n  this._readyFn = fn; }\n\n /**\n  * Dispose of running hybrid AngularJS / Angular application.\n  */\n public  
dispose() {\n  this.ng1Injector !.get($ROOT_SCOPE).$destroy();\n  this.ng2ModuleRef !.destroy();\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\n/**\n * @module\n * @description\n * Entry point for all public APIs of this package. allowing\n * Angular 1  
and Angular 2+
```

```
to run side by side in the same application.\n */\nexport {VERSION} from './src/common/src/version';\nexport  
{UpgradeAdapter, UpgradeAdapterRef} from './src/dynamic/src/upgrade_adapter';\n\n// This file only re-exports  
content of the `src` folder. Keep it that way.\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// This file is not used to build this module. It is only used during editing\n// by the  
TypeScript language service and during build for verification. `ngc` replaces this file with production index.ts  
when it rewrites private symbol\n// names.\nexport * from './public_api';\n"/**\n * Generated bundle index. Do  
not edit.\n */\nexport * from
```

```
./index;\n"], "names": ["angularElement", "INITIAL_VALUE", "element", "angularModule"], "mappings": ";;;;;;;;;AA  
AA;;;;;;;;;AAQA,AAQA;;AAGA,IAAa,OOAO,GAAG,IAAI,OOAO,CAAC,mBAAmB,CAAC;;ACnBvD;;;;;;;;;AA0  
NA,SAAS,IAAI;IACX,MAAM,IAAI,KAAC,CAAC,+BAA+B,CAAC,CAAC;CACID;AAED,IAAM,WAAW,IAA  
4B,cAAM,OOAA,IAAI,EAAE,GAAA,CAAQ,CAAC;AACIE,WAAW,CAAC,SAAS,GAAG,IAAI,CAAC;AAE7B  
,IAAI,OOAO,GAYP;IACF,SAAS,EAAE,IAAI;IACf,MAAM,EAAE,IAAI;IACZ,OOAO,EAAE,WAAW;IACpB,Q  
AAQ,EAAE,IAAI;IACd,OOAO,EAAE,SAAGb;IACzB,eAAe,EAAE,IAAI;IACrB,cAAc,EAAE,IAAI;CACrB,CA  
AC;AAEF,IAAI;IACF,IAAI,MAAM,CAAC,cAAc,CAAC,SAAS,CAAC,EAAE;QACpC,OOAO,GAAS,MAAO,C  
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BAAkB;IAChC,OOAO,OOAO,CAAC;CACbB;AAED,AAAO,IAAM,SAAS,GAA6B,UAAc,CAAC,EAAE,OOA  
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A,CAAC;;AAIIC,AAAO,IAAM,OOAO,GAA0B,UAAc,MAAM,EAAE,YAAa;IACHE,OOAA,OOAO,CAAC,M  
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AM,SAAS,GAAG,WAAW,CAAC;AACrC,AAAO,IAAM,SAAS,GAAG,WAAW,CAAC;AACrC,AAAO,IAAM,M  
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,gBAAGb,CAAC;AACbD,AAAO,IAAM,iBAAiB,GAAG,kBAAkB,CAAC;AAEpD,AAAO,IAAM,aAAa,GAAG,e  
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AAgC,CAAC;AAC5E,AAAO,IAAM,2BAA2B,GAAG,gCAAgC,CAAC;AAC5E,AAAO,IAAM,YAAY,GAAG,m  
BAAmB,CAAC;AACbD,AAAO,IAAM,eAAe,GAAG,wBAAwB,CAAC;AACxD,AAAO,IAAM,WAAW,GAAG,i  
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```

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in path(s):

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# 1.235 hash-base 3.1.0

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## 1.236 clipboard 1.5.16

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## 1.237 fileapi 2.0.27

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## 1.239 oclazyload 1.1.0

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```
* /opt/ws_local/PERMITS_SQL/1047774479_1591200443.92/0/des-js-1-0-1-4-tgz/package/README.md
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jar/net/jodah/typetools/TypeResolver.java
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sources-jar/io/netty/channel/unix/PreferredDirectByteBufferAllocator.java
*/opt/ws_local/PERMITS_SQL/1053317302_1592032328.97/0/netty-transport-native-unix-common-4-1-50-final-
sources-jar/netty_unix_buffer.h
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/opt/ws_local/PERMITS_SQL/1053317302_1592032328.97/0/netty-transport-native-unix-common-4-1-50-final-
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sources-jar/netty_unix_socket.h
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sources-jar/io/netty/channel/unix/Socket.java
* /opt/ws_local/PERMITS_SQL/1053317302_1592032328.97/0/netty-transport-native-unix-common-4-1-50-final-
sources-jar/io/netty/channel/unix/DomainSocketAddress.java
* /opt/ws_local/PERMITS_SQL/1053317302_1592032328.97/0/netty-transport-native-unix-common-4-1-50-final-
sources-jar/io/netty/channel/unix/DomainSocketReadMode.java
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sources-jar/io/netty/channel/unix/FileDescriptor.java
* /opt/ws_local/PERMITS_SQL/1053317302_1592032328.97/0/netty-transport-native-unix-common-4-1-50-final-
sources-jar/netty_unix_socket.c
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sources-jar/io/netty/channel/unix/DomainSocketChannel.java
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/opt/ws_local/PERMITS_SQL/1053317302_1592032328.97/0/netty-transport-native-unix-common-4-1-50-final-
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* /opt/ws_local/PERMITS_SQL/1053317302_1592032328.97/0/netty-transport-native-unix-common-4-1-50-final-
sources-jar/io/netty/channel/unix/NativeInetAddress.java
* /opt/ws_local/PERMITS_SQL/1053317302_1592032328.97/0/netty-transport-native-unix-common-4-1-50-final-
sources-jar/netty_unix_filedescriptor.h
* /opt/ws_local/PERMITS_SQL/1053317302_1592032328.97/0/netty-transport-native-unix-common-4-1-50-final-
```

sources-jar/netty\_unix\_errors.c  
\* /opt/ws\_local/PERMITS\_SQL/1053317302\_1592032328.97/0/netty-transport-native-unix-common-4-1-50-final-sources-jar/netty\_unix\_filedescriptor.c  
\* /opt/ws\_local/PERMITS\_SQL/1053317302\_1592032328.97/0/netty-transport-native-unix-common-4-1-50-final-sources-jar/io/netty/channel/unix/UnixChannel.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1053317302\_1592032328.97/0/netty-transport-native-unix-common-4-1-50-final-sources-jar/io/netty/channel/unix/ServerDomainSocketChannel.java  
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\*  
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\*  
/opt/ws\_local/PERMITS\_SQL/1053317302\_1592032328.97/0/netty-transport-native-unix-common-4-1-50-final-sources-jar/io/netty/channel/unix/UnixChannelOption.java  
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## 1.263 base-passwd 3.5.46

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Name: base-passwd

Maintainer: Colin Watson <cjwatson@debian.org>

Files: update-passwd.c, man/\*

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Files: passwd.master, group.master

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X-Notes: Originally written by Ian Murdock <imurdock@debian.org> and

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## 1.265 everit-json-schema 1.12.1

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\* /opt/ws\_local/PERMITS\_SQL/1057884753\_1592369583.05/0/everit-json-schema-1-12-1-sources-jar/org/everit/json/schema/JSONPointer.java

\* /opt/ws\_local/PERMITS\_SQL/1057884753\_1592369583.05/0/everit-json-schema-1-12-1-sources-jar/org/everit/json/schema/JSONPointerException.java

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\* /opt/ws\_local/PERMITS\_SQL/1057884753\_1592369583.05/0/everit-json-schema-1-12-1-sources-jar/org/everit/json/schema/internal/JSONWriter.java

## 1.266 handy-uri-templates 2.1.8

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```
* /opt/ws_local/PERMITS_SQL/1057884761_1592369589.04/0/handy-uri-templates-2-1-8-sources-
jar/com/damnhandy/uri/template/VariableExpansionException.java
* /opt/ws_local/PERMITS_SQL/1057884761_1592369589.04/0/handy-uri-templates-2-1-8-sources-
jar/com/damnhandy/uri/template/impl/Modifier.java
*
/opt/ws_local/PERMITS_SQL/1057884761_1592369589.04/0/handy-uri-templates-2-1-8-sources-
jar/com/damnhandy/uri/template/UriTransient.java
* /opt/ws_local/PERMITS_SQL/1057884761_1592369589.04/0/handy-uri-templates-2-1-8-sources-
jar/com/damnhandy/uri/template/VarName.java
* /opt/ws_local/PERMITS_SQL/1057884761_1592369589.04/0/handy-uri-templates-2-1-8-sources-
jar/com/damnhandy/uri/template/impl/VarExploderFactory.java
* /opt/ws_local/PERMITS_SQL/1057884761_1592369589.04/0/handy-uri-templates-2-1-8-sources-
jar/com/damnhandy/uri/template/impl/UriTemplateParser.java
* /opt/ws_local/PERMITS_SQL/1057884761_1592369589.04/0/handy-uri-templates-2-1-8-sources-
jar/com/damnhandy/uri/template/UriUtil.java
* /opt/ws_local/PERMITS_SQL/1057884761_1592369589.04/0/handy-uri-templates-2-1-8-sources-
jar/com/damnhandy/uri/template/UriTemplate.java
* /opt/ws_local/PERMITS_SQL/1057884761_1592369589.04/0/handy-uri-templates-2-1-8-sources-
jar/com/damnhandy/uri/template/impl/VarSpec.java
*
/opt/ws_local/PERMITS_SQL/1057884761_1592369589.04/0/handy-uri-templates-2-1-8-sources-
jar/com/damnhandy/uri/template/VarExploder.java
* /opt/ws_local/PERMITS_SQL/1057884761_1592369589.04/0/handy-uri-templates-2-1-8-sources-
jar/com/damnhandy/uri/template/Expression.java
* /opt/ws_local/PERMITS_SQL/1057884761_1592369589.04/0/handy-uri-templates-2-1-8-sources-
jar/com/damnhandy/uri/template/DefaultVarExploder.java
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```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1057884761_1592369589.04/0/handy-uri-templates-2-1-8-sources-
jar/com/damnhandy/uri/template/MalformedUriTemplateException.java
```

# 1.267 re2j 1.3

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```
* /opt/ws_local/PERMITS_SQL/1057884735_1592369590.28/0/re2j-1-3-sources-jar/com/google/re2j/CharClass.java
* /opt/ws_local/PERMITS_SQL/1057884735_1592369590.28/0/re2j-1-3-sources-jar/com/google/re2j/RE2.java
* /opt/ws_local/PERMITS_SQL/1057884735_1592369590.28/0/re2j-1-3-sources-jar/com/google/re2j/Parser.java
* /opt/ws_local/PERMITS_SQL/1057884735_1592369590.28/0/re2j-1-3-sources-jar/com/google/re2j/Inst.java
* /opt/ws_local/PERMITS_SQL/1057884735_1592369590.28/0/re2j-1-3-sources-jar/com/google/re2j/Regexp.java
* /opt/ws_local/PERMITS_SQL/1057884735_1592369590.28/0/re2j-1-3-sources-jar/com/google/re2j/Machine.java
* /opt/ws_local/PERMITS_SQL/1057884735_1592369590.28/0/re2j-1-3-sources-jar/com/google/re2j/Prog.java
* /opt/ws_local/PERMITS_SQL/1057884735_1592369590.28/0/re2j-1-3-sources-jar/com/google/re2j/PatternSyntaxException.java
* /opt/ws_local/PERMITS_SQL/1057884735_1592369590.28/0/re2j-1-3-sources-jar/com/google/re2j/MachineInput.java
*
/opt/ws_local/PERMITS_SQL/1057884735_1592369590.28/0/re2j-1-3-sources-jar/com/google/re2j/Unicode.java
* /opt/ws_local/PERMITS_SQL/1057884735_1592369590.28/0/re2j-1-3-sources-jar/com/google/re2j/Utils.java
* /opt/ws_local/PERMITS_SQL/1057884735_1592369590.28/0/re2j-1-3-sources-jar/com/google/re2j/Compiler.java
```

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```
* /opt/ws_local/PERMITS_SQL/1057884735_1592369590.28/0/re2j-1-3-sources-jar/com/google/re2j/Simplify.java
```

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```
* /opt/ws_local/PERMITS_SQL/1057884735_1592369590.28/0/re2j-1-3-sources-jar/com/google/re2j/Pattern.java
* /opt/ws_local/PERMITS_SQL/1057884735_1592369590.28/0/re2j-1-3-sources-jar/com/google/re2j/Matcher.java
```

# 1.268 websocket-api 9.4.29.v20200521

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Eclipse

The following artifacts are EPL.  
\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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

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

-----  
Oracle

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

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

-----  
Oracle OpenJDK



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

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

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

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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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

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

org.eclipse.jetty.toolchain:jetty-schemas

-----  
Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

## 1.269 objectweb-asm 8.0.1

### 1.269.1 Available under license :

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1058051010\_1595249430.87/0/asm-8-0-1-jar/META-INF/MANIFEST.MF

## 1.270 byte-buddy 1.10.11

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# 1.271 websocket-servlet 9.4.29.v20200521

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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

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#### Apache

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

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

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org.eclipse.jetty.toolchain:jetty-schemas

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

The following artifacts are EPL and ASL2.

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

The following artifacts are EPL and CDDL 1.0.

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

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Oracle

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

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

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Oracle OpenJDK

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

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

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

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

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

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Apache

The following artifacts are ASL2 licensed.



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

-----

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.

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# 1.274 javax-websocket-server-impl

## 9.4.29.v20200521

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

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

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

-----

#### Oracle OpenJDK

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- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

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

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

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#### Apache

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- org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper  
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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  
org.apache.tomcat:tomcat-util

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org.eclipse.jetty.toolchain:jetty-schemas

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\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

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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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The following artifacts are EPL and ASL2.

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

The following artifacts are EPL and CDDL 1.0.

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

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Oracle

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

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

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Oracle OpenJDK

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

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

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

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

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

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Apache

The following artifacts are ASL2 licensed.

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

-----

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

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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

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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# 1.277 jetty-util 9.4.29.v20200521

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\* 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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#### OW2

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

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

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- org.mortbay.jasper:apache-jsp

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

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org.eclipse.jetty.toolchain:jetty-schemas

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\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

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\* java.sun.security.ssl

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org.mortbay.jasper:apache-jsp

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org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

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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

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

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

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Oracle OpenJDK

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

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

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

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

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

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Apache

The following artifacts are ASL2 licensed.

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

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MortBay

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

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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

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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# 1.280 jetty-plus 9.4.29.v20200521

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The following artifacts are EPL and ASL2.

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

The following artifacts are EPL and CDDL 1.0.

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

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Oracle

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

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

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#### Oracle OpenJDK

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

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

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

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#### OW2

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

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#### Apache

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

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- org.mortbay.jasper:apache-jsp

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

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

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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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\* 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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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

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org.eclipse.jetty.toolchain:jetty-schemas

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## 1.282 javax-websocket-client-impl

### 9.4.29.v20200521

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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

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

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Oracle

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

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

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#### Oracle OpenJDK

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

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

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

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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  
org.apache.tomcat:tomcat-util

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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.

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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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# 1.285 jetty-webapp 9.4.29.v20200521

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

-----

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

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org.eclipse.jetty.toolchain:jetty-schemas

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 */
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```
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/ParameterizedType.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/Utils.java
*
/opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/FieldInfoGenerator.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/MethodInfoGenerator.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/ThrowsTypeTarget.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/TypeParameterBoundTypeTarget.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/EmptyTypeTarget.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/PositionBasedTypeTarget.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/TypeTarget.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/AnnotationTargetFilterCollection.java
```

\*  
/opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-  
jar/org/jboss/jandex/IndexWriterImpl.java  
\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-  
jar/org/jboss/jandex/TypeParameterTypeTarget.java  
\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-  
jar/org/jboss/jandex/VoidType.java  
\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-  
jar/org/jboss/jandex/IndexReaderImpl.java  
\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-  
jar/org/jboss/jandex/ArrayType.java  
\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-  
jar/org/jboss/jandex/IndexWriterV2.java  
\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-  
jar/org/jboss/jandex/ClassExtendsTypeTarget.java  
\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-  
jar/org/jboss/jandex/MethodParameterTypeTarget.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-  
jar/org/jboss/jandex/MethodInternal.java  
\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-  
jar/org/jboss/jandex/WildcardType.java  
\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-  
jar/org/jboss/jandex/GenericSignatureParser.java  
\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-  
jar/org/jboss/jandex/TypeVariable.java  
\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-  
jar/org/jboss/jandex/UnresolvedTypeVariable.java  
\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-  
jar/org/jboss/jandex/IndexReaderV2.java  
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\*

/opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/IndexWriter.java

\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/DotName.java

\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/FieldInternal.java

\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/FieldInfo.java

\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/NameTable.java

\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/CompositeIndex.java

\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/IndexWriterV1.java

\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/IndexView.java

\*

/opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/StrongInternPool.java

\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/Indexer.java

\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/JarIndexer.java

\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/JandexAntTask.java

\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/MethodInfo.java

\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/ClassType.java

\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/IndexReaderV1.java

\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/Result.java

\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/Index.java

\*

/opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/MethodParameterInfo.java

\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/UnsupportedVersion.java



\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/AnnotationValue.java  
\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/AnnotationTarget.java  
\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/PrimitiveType.java  
\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/Main.java  
\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/PackedDataInputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/AnnotationInstance.java  
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/opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/IndexReader.java  
\* /opt/ws\_local/PERMITS\_SQL/1063930911\_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/Type.java

# 1.287 metrics 4.1.9

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* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-jar/feign/Param.java
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* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-  
jar/feign/ReflectiveAsyncFeign.java
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* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-  
jar/feign/optionals/OptionalDecoder.java
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jar/feign/AsyncInvocation.java
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jar/feign/auth/BasicAuthRequestInterceptor.java
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jar/feign/stream/StreamDecoder.java
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jar/feign/template/UriTemplate.java
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* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-jar/feign/Target.java
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jar/feign/ResponseMapper.java
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jar/feign/SynchronousMethodHandler.java
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* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-  
jar/feign/template/QueryTemplate.java
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\* /opt/ws\_local/PERMITS\_SQL/1064524812\_1593314771.94/0/feign-core-10-10-1-sources-jar/feign/template/Template.java  
\* /opt/ws\_local/PERMITS\_SQL/1064524812\_1593314771.94/0/feign-core-10-10-1-sources-jar/feign/querymap/FieldQueryMapEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1064524812\_1593314771.94/0/feign-core-10-10-1-sources-jar/feign/codec/ErrorDecoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1064524812\_1593314771.94/0/feign-core-10-10-1-sources-jar/feign/codec/StringDecoder.java  
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\* /opt/ws\_local/PERMITS\_SQL/1064524812\_1593314771.94/0/feign-core-10-10-1-sources-jar/feign/querymap/BeanQueryMapEncoder.java  
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/opt/ws\_local/PERMITS\_SQL/1064524812\_1593314771.94/0/feign-core-10-10-1-sources-jar/feign/MethodInfo.java  
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\* /opt/ws\_local/PERMITS\_SQL/1064524812\_1593314771.94/0/feign-core-10-10-1-sources-jar/feign/template/Expressions.java  
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\* /opt/ws\_local/PERMITS\_SQL/1064524812\_1593314771.94/0/feign-core-10-10-1-sources-jar/feign/auth/Base64.java  
\* /opt/ws\_local/PERMITS\_SQL/1064524812\_1593314771.94/0/feign-core-10-10-1-sources-jar/feign/InvocationHandlerFactory.java  
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jar/feign/template/BodyTemplate.java
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* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-
jar/feign/AsyncClient.java
* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-
jar/feign/ReflectiveFeign.java
* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-
jar/feign/DeclarativeContract.java
* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-
jar/feign/template/TemplateChunk.java
* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-
jar/feign/RequestInterceptor.java
* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-
jar/feign/codec/Decoder.java
* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-
jar/feign/RetryableException.java
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jar/feign/codec/DecodeException.java
* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-
jar/feign/RequestTemplate.java
* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-
jar/feign/template/UriUtils.java
* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-
jar/feign/codec/Encoder.java
* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-jar/feign/Headers.java
* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-
jar/feign/Experimental.java
*
/opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-
jar/feign/RequestLine.java
* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-jar/feign/Request.java
* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-jar/feign/Feign.java
* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-
jar/feign/QueryMapEncoder.java
* /opt/ws_local/PERMITS_SQL/1064524812_1593314771.94/0/feign-core-10-10-1-sources-jar/feign/Contract.java
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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1064524868\_1593314806.54/0/feign-slf4j-10-10-1-sources-  
jar/feign/slf4j/Slf4jLogger.java

## 1.290 debianutils 4.8.6.1

### 1.290.1 Available under license :

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#ident "@(#)smail:RELEASE-3\_2:COPYING,v 1.2 1996/06/14 18:59:10 woods Exp"

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## 1.291 findutils 4.6.0+git+20190209 2

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It was downloaded from <ftp://ftp.gnu.org/gnu/findutils>

Debian maintainer history: The original package was put together by Ian Murdock <imurdock@debian.org>, afterwards Kevin Dalley <kevind@rahul.net> took over. 2003-07 Andreas Metzler <ametzler@debian.org> followed.

Upstream Authors:

\* GNU find was written by Eric Decker <cire@cisco.com>, with enhancements by David MacKenzie <djm@gnu.org>, Jay Plett <jay@silence.princeton.nj.us>, and Tim Wood <axolotl!tim@toad.com>.

The idea for -print0 and xargs -0 came from Dan Bernstein <brnstnd@kramden.acf.nyu.edu>.

Improvements have been made by James Youngman <jay@gnu.org>.

\* GNU xargs was originally written by Mike Rendell, with enhancements by David MacKenzie. Modifications by James Youngman Dmitry V. Levin

\* GNU locate and its associated utilities were originally written by James Woods, with enhancements by David MacKenzie, James Youngman and Bas van Gompel.

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Source: <https://savannah.gnu.org/projects/grep>

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## 1.297 mawk 1.3.3 17+b3

### 1.297.1 Available under license :

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

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```
* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
jar/org/springframework/util/FastByteArrayOutputStream.java
* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
jar/org/springframework/core/NestedCheckedException.java
*
/opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
jar/org/springframework/util/concurrent/ListenableFuture.java
```

\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/type/classreading/CachingMetadataReaderFactory.java  
 \* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/util/comparator/Comparators.java  
 \* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/io/ResourceLoader.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/io/ByteArrayResource.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/env/Environment.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/io/buffer/NettyDataBufferFactory.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/util/concurrent/SuccessCallback.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/convert/support/ByteBufferConverter.java  
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jar/org/springframework/util/xml/DomUtils.java  
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jar/org/springframework/util/Assert.java  
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jar/org/springframework/util/xml/DomContentHandler.java



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\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/util/concurrent/MonoToListenableFutureAdapter.java  
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\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/util/concurrent/DelegatingCompletableFuture.java  
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/opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/util/UpdateMessageDigestInputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/lang/UsesSunHttpServer.java  
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* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
jar/org/springframework/core/convert/support/ConfigurableConversionService.java
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* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
jar/org/springframework/core/codec/DecodingException.java
* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
jar/org/springframework/core/type/filter/AspectJTypeFilter.java
*
/opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
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\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/style/DefaultToStringStyler.java

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/opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/io/ResourceEditor.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/convert/converter/GenericConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/util/concurrent/FutureAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/codec/EncodingException.java

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\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/type/classreading/SimpleMethodMetadataReadingVisitor.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/convert/Property.java  
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\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/CollectionFactory.java  
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/opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/util/comparator/InstanceComparator.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/type/StandardMethodMetadata.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/Ordered.java  
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\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/util/PathMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/util/ReflectionUtils.java  
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\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/io/support/PathMatchingResourcePatternResolver.java  
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\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/log/LogAccessor.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/annotation/AttributeMethods.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/log/LogMessage.java  
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/opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/annotation/IntrospectionFailureLogger.java  
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jar/org/springframework/core/convert/support/ConversionUtils.java  
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\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/annotation/MergedAnnotationSelectors.java  
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\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/util/xml/StaxStreamHandler.java  
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/opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/cglib/SpringCglibInfo.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/convert/support/ArrayToCollectionConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/convert/support/StringToCollectionConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/type/filter/AbstractClassTestingTypeFilter.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/convert/support/ArrayToStringConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/convert/support/ArrayToObjectConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/cglib/core/SpringNamingPolicy.java  
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/opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/convert/converter/ConditionalConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/convert/support/PropertiesToStringConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/util/ExceptionTypeFilter.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/convert/support/ObjectToStringConverter.java  
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* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
jar/org/springframework/core/io/support/ResourcePatternResolver.java
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jar/org/springframework/core/io/ContextResource.java
* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
jar/org/springframework/core/style/ValueStyler.java
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org.springframework.core.ReactiveAdapterRegistry\$SpringCoreBlockHoundIntegration

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INF/services/reactor.blockhound.integration.BlockHoundIntegration
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jar/org/springframework/cglib/proxy/Enhancer.java
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jar/org/springframework/core/task/TaskTimeoutException.java
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jar/org/springframework/core/InfrastructureProxy.java  
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jar/org/springframework/util/xml/SimpleTransformErrorListener.java  
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jar/org/springframework/core/task/TaskRejectedException.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-  
jar/org/springframework/core/style/StylerUtils.java  
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jar/org/springframework/core/convert/converter/Converter.java  
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\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/convert/support/ZoneIdToTimeZoneConverter.java  
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/opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/task/TaskExecutor.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/env/ConfigurablePropertyResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/env/CommandLineArgs.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/util/PropertiesPersister.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/convert/support/StringToPropertiesConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/convert/support/ZonedDateTimeToCalendarConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/util/concurrent/FailureCallback.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/task/support/TaskExecutorAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/convert/support/NumberToNumberConverterFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/util/backoff/BackOff.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/util/backoff/BackOffExecution.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-

jar/org/springframework/core/convert/converter/ConverterRegistry.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-  
jar/org/springframework/core/convert/support/EnumToIntegerConverter.java  
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* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-  
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* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-  
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* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-  
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* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-  
jar/org/springframework/util/CollectionUtils.java  
* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-  
jar/org/springframework/core/GenericTypeResolver.java
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\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/SortedProperties.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/env/PropertyResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/util/xml/StaxStreamXMLReader.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/annotation/AnnotationUtils.java  
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/opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/env/SimpleCommandLineArgsParser.java  
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\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/util/StringUtils.java  
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/opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/util/FileCopyUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/util/SystemPropertyUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/util/ClassUtils.java  
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\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/ReactiveTypeDescriptor.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/annotation/ValueExtractor.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/core/env/AbstractPropertyResolver.java  
\*  
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\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-jar/org/springframework/util/LinkedMultiValueMap.java  
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jar/org/springframework/util/xml/StaxEventXMLReader.java  
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jar/org/springframework/core/io/support/PropertiesLoaderUtils.java  
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jar/org/springframework/core/annotation/MergedAnnotationsCollection.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-  
jar/org/springframework/core/annotation/TypeMappedAnnotation.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-  
jar/org/springframework/core/type/classreading/MethodMetadataReadingVisitor.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-  
jar/org/springframework/util/CommonsLogWriter.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-  
jar/org/springframework/core/env/PropertySource.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-  
jar/org/springframework/core/annotation/AnnotationTypeMapping.java  
\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-  
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*
/opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
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* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
jar/org/springframework/core/env/MapPropertySource.java
* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
jar/org/springframework/core/type/classreading/AnnotationMetadataReadingVisitor.java
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jar/org/springframework/cglib/core/AsmApi.java
* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
jar/org/springframework/cglib/core/AbstractClassGenerator.java
*
/opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
jar/org/springframework/cglib/core/ReflectUtils.java
* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
jar/org/springframework/cglib/core/KeyFactory.java
* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
jar/org/springframework/cglib/proxy/MethodProxy.java
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jar/org/springframework/asm/Type.java

\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-  
jar/org/springframework/asm/ClassWriter.java

\*

/opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-  
jar/org/springframework/asm/RecordComponentWriter.java

\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-  
jar/org/springframework/asm/AnnotationWriter.java

\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-  
jar/org/springframework/asm/CurrentFrame.java

\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-  
jar/org/springframework/asm/ModuleWriter.java

\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-  
jar/org/springframework/asm/ClassTooLargeException.java

\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-  
jar/org/springframework/asm/AnnotationVisitor.java

\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-  
jar/org/springframework/asm/Symbol.java

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\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-  
jar/org/springframework/asm/TypePath.java

\*

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jar/org/springframework/asm/Edge.java

\* /opt/ws\_local/PERMITS\_SQL/1067899250\_1594254288.09/0/spring-core-5-2-7-release-sources-  
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jar/org/springframework/asm/MethodWriter.java
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* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
jar/org/springframework/asm/RecordComponentVisitor.java
* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
jar/org/springframework/asm/Handler.java
* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
jar/org/springframework/asm/ConstantDynamic.java
* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
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*
/opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
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* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
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* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
jar/org/springframework/asm/Attribute.java
* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
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* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
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* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
jar/org/springframework/asm/MethodVisitor.java
* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
jar/org/springframework/asm/ModuleVisitor.java
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* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
jar/org/springframework/core/serializer/DefaultSerializer.java
* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
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jar/org/springframework/core/convert/support/StringToCharsetConverter.java
*
/opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
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jar/org/springframework/core/env/SystemEnvironmentPropertySource.java
* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
jar/org/springframework/core/convert/support/StringToCurrencyConverter.java
*
/opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
jar/org/springframework/util/JdkIdGenerator.java
* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
jar/org/springframework/core/annotation/SynthesizedAnnotation.java
* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
jar/org/springframework/core/serializer/support/DeserializingConverter.java
* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
jar/org/springframework/util/ResizableByteArrayOutputStream.java
* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
jar/org/springframework/util/IdGenerator.java
* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
jar/org/springframework/util/AlternativeJdkIdGenerator.java
*
/opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
jar/org/springframework/core/convert/converter/ConditionalGenericConverter.java
* /opt/ws_local/PERMITS_SQL/1067899250_1594254288.09/0/spring-core-5-2-7-release-sources-
jar/org/springframework/core/serializer/support/SerializationDelegate.java

```

# 1.301 libtasn 4.13 3

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```
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src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S,  
mpi/hppa1.1/udiv-qrnnd.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)

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(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex.  
added SHA-224, changed cipher/sha256.c, added HMAC tests.)

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## 1.307 libsepol 2.8 1

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Upstream-Contact: [gnpug-devel@gnupg.org](mailto:gnpug-devel@gnupg.org)

Source: <https://gnupg.org/ftp/gcrypt/libgpg-error/>

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* /opt/ws_local/PERMITS_SQL/1068228495_1595165263.52/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/PackedDataInputStream.java
* /opt/ws_local/PERMITS_SQL/1068228495_1595165263.52/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/IndexWriterV1.java
*
```

/opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/FieldInternal.java  
\* /opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/Index.java  
\* /opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/IndexWriter.java  
\* /opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/IndexReader.java  
\* /opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/IndexReaderV1.java  
\* /opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/DotName.java  
\* /opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/Main.java  
\* /opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/AnnotationInstance.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/ClassInfo.java  
\* /opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/MethodParameterInfo.java  
\* /opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/ClassType.java  
\* /opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/AnnotationValue.java  
\* /opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/Result.java  
\* /opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/IndexView.java  
\* /opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/CompositeIndex.java  
\* /opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/JandexAntTask.java  
\* /opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/PackedDataOutputStream.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/UnsupportedVersion.java  
\* /opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/StrongInternPool.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/MethodInfo.java  
\* /opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/JarIndexer.java



\* /opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/NameTable.java  
\* /opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/FieldInfo.java

\*

/opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/Type.java

\* /opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/Indexer.java

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\* /opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/AnnotationTargetFilterCollection.java

\* /opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/MethodInfoGenerator.java

\*

/opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/TypeVariable.java

\* /opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/UnresolvedTypeVariable.java

\* /opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/TypeTarget.java

\* /opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/MethodInternal.java

\* /opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/ArrayType.java

\* /opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/PositionBasedTypeTarget.java

\* /opt/ws\_local/PERMITS\_SQL/1068228495\_1595165263.52/0/jandex-2-1-3-final-sources-

```

jar/org/jboss/jandex/IndexWriterV2.java
* /opt/ws_local/PERMITS_SQL/1068228495_1595165263.52/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/WildcardType.java
*
/opt/ws_local/PERMITS_SQL/1068228495_1595165263.52/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/IndexReaderImpl.java
* /opt/ws_local/PERMITS_SQL/1068228495_1595165263.52/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/TypeParameterTypeTarget.java
* /opt/ws_local/PERMITS_SQL/1068228495_1595165263.52/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/ParameterizedType.java
* /opt/ws_local/PERMITS_SQL/1068228495_1595165263.52/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/VoidType.java
* /opt/ws_local/PERMITS_SQL/1068228495_1595165263.52/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/FieldInfoGenerator.java
* /opt/ws_local/PERMITS_SQL/1068228495_1595165263.52/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/ClassExtendsTypeTarget.java
* /opt/ws_local/PERMITS_SQL/1068228495_1595165263.52/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/TypeParameterBoundTypeTarget.java
* /opt/ws_local/PERMITS_SQL/1068228495_1595165263.52/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/ThrowsTypeTarget.java
*
/opt/ws_local/PERMITS_SQL/1068228495_1595165263.52/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/Utils.java
* /opt/ws_local/PERMITS_SQL/1068228495_1595165263.52/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/MethodParameterTypeTarget.java
* /opt/ws_local/PERMITS_SQL/1068228495_1595165263.52/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/EmptyTypeTarget.java
* /opt/ws_local/PERMITS_SQL/1068228495_1595165263.52/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/IndexReaderV2.java
* /opt/ws_local/PERMITS_SQL/1068228495_1595165263.52/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/IndexWriterImpl.java
* /opt/ws_local/PERMITS_SQL/1068228495_1595165263.52/0/jandex-2-1-3-final-sources-
jar/org/jboss/jandex/GenericSignatureParser.java

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\* /opt/ws\_local/PERMITS\_SQL/1068233880\_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/UnsafeDirectSwappedByteBuf.java

\* /opt/ws\_local/PERMITS\_SQL/1068233880\_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/UnsafeHeapSwappedByteBuf.java

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* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/search/package-info.java
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jar/io/netty/buffer/PooledUnsafeHeapByteBuf.java
```

```
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/PoolSubpageMetric.java
```

```
*
 /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/PoolChunkMetric.java
```

```
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
```

jar/io/netty/buffer/HeapByteBufUtil.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233880\_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-  
jar/io/netty/buffer/PoolChunkListMetric.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233880\_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-  
jar/io/netty/buffer/UnpooledUnsafeHeapByteBuf.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233880\_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-  
jar/io/netty/buffer/AbstractUnsafeSwappedByteBuf.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233880\_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-  
jar/io/netty/buffer/UnpooledSlicedByteBuf.java  
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jar/io/netty/buffer/UnpooledDuplicatedByteBuf.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233880\_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-  
jar/io/netty/buffer/UnsafeByteBufUtil.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068233880\_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-  
jar/io/netty/buffer/PoolArenaMetric.java  
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jar/io/netty/buffer/search/BitapSearchProcessorFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233880\_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-  
jar/io/netty/buffer/search/MultiSearchProcessorFactory.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068233880\_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-  
jar/io/netty/buffer/search/SearchProcessor.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233880\_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-  
jar/io/netty/buffer/search/SearchProcessorFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233880\_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-  
jar/io/netty/buffer/search/KmpSearchProcessorFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233880\_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-  
jar/io/netty/buffer/search/AbstractMultiSearchProcessorFactory.java

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* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/search/AhoCorasicSearchProcessorFactory.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/search/AbstractSearchProcessorFactory.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/search/MultiSearchProcessor.java
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* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/FixedCompositeByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/DefaultByteBufHolder.java
*
/opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/ByteBufProcessor.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/SimpleLeakAwareByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/EmptyByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/AdvancedLeakAwareByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/WrappedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/ReadOnlyUnsafeDirectByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/AbstractDerivedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/AbstractReferenceCountedByteBuf.java
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/opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/UnreleasableByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/ByteBufHolder.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/ReadOnlyByteBufferBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/PooledUnsafeDirectByteBuf.java
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INF/native-image/io.netty.buffer/native-image.properties
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\* /opt/ws\_local/PERMITS\_SQL/1068233880\_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/PooledByteBufAllocatorMetric.java

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/opt/ws\_local/PERMITS\_SQL/1068233880\_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/ByteBufAllocatorMetricProvider.java

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\* /opt/ws\_local/PERMITS\_SQL/1068233880\_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/ReadOnlyByteBuf.java

\* /opt/ws\_local/PERMITS\_SQL/1068233880\_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/PoolChunk.java

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\* /opt/ws\_local/PERMITS\_SQL/1068233880\_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/PoolChunkList.java

\* /opt/ws\_local/PERMITS\_SQL/1068233880\_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/ByteBuf.java



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* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/UnpooledDirectByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/UnpooledUnsafeDirectByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/Unpooled.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/PooledByteBufAllocator.java
*
/opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/DuplicatedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/CompositeByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/PoolSubpage.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/SwappedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/AbstractByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/AbstractByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/PoolArena.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/ByteBufInputStream.java
*
/opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/package-info.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/ByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/ByteBufUtil.java
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jar/io/netty/buffer/PoolThreadCache.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/UnpooledByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/PooledDirectByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/PooledByteBuf.java
*
/opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
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jar/io/netty/resolver/package-info.java
* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-
jar/io/netty/resolver/SimpleNameResolver.java
* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-
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/opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-
jar/io/netty/resolver/AddressResolverGroup.java
* /opt/ws_local/PERMITS_SQL/1068233887_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-
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\* /opt/ws\_local/PERMITS\_SQL/1068233887\_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-jar/io.netty/resolver/HostsFileEntries.java

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\* /opt/ws\_local/PERMITS\_SQL/1068233887\_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-jar/io/netty/resolver/DefaultNameResolver.java

\*

/opt/ws\_local/PERMITS\_SQL/1068233887\_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-jar/io/netty/resolver/HostsFileEntriesResolver.java

\* /opt/ws\_local/PERMITS\_SQL/1068233887\_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-jar/io/netty/resolver/AddressResolver.java

\* /opt/ws\_local/PERMITS\_SQL/1068233887\_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-jar/io/netty/resolver/InetSocketAddressResolver.java

\* /opt/ws\_local/PERMITS\_SQL/1068233887\_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-jar/io/netty/resolver/AbstractAddressResolver.java

\* /opt/ws\_local/PERMITS\_SQL/1068233887\_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-jar/io/netty/resolver/HostsFileParser.java

\* /opt/ws\_local/PERMITS\_SQL/1068233887\_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-jar/io/netty/resolver/InetAddressResolver.java

\* /opt/ws\_local/PERMITS\_SQL/1068233887\_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java

\*

/opt/ws\_local/PERMITS\_SQL/1068233887\_1594324468.34/0/netty-resolver-4-1-50-final-sources-1-jar/io/netty/resolver/DefaultAddressResolverGroup.java

## 1.315 netty-codec 4.1.50.Final

## 1.315.1 Available under license :

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\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/DefaultHeaders.java

\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/Headers.java

\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/EmptyHeaders.java

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\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/serialization/ClassResolvers.java

\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-

jar/io/netty/handler/codec/string/package-info.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/CorruptedFrameException.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/ByteToMessageDecoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/compression/JZlibEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/MessageToMessageDecoder.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/DecoderException.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/compression/ZlibUtil.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/MessageAggregator.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/marshalling/LimitingByteInput.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/ReplayingDecoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/bytes/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/compression/ZlibWrapper.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/compression/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/serialization/WeakReferenceMap.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/xml/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/PrematureChannelClosureException.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java  
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/opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/TooLongFrameException.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/EncoderException.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/ByteToMessageCodec.java  
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/opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/protobuf/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/ZlibCodecFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/base64/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/MessageToMessageEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/marshalling/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/JZlibDecoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/string/StringEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java  
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/opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/serialization/ClassResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-

jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/UnsupportedMessageTypeException.java  
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/opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/LengthFieldPrepender.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/Delimiters.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/serialization/ReferenceMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/LineBasedFrameDecoder.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/FixedLengthFrameDecoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/DecoderResult.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/serialization/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/string/StringDecoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/compression/Snappy.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/MessageToMessageCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/serialization/CachingClassResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/serialization/ObjectDecoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-  
jar/io/netty/handler/codec/base64/Base64Decoder.java



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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/compression/DecompressionException.java
*
/opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/base64/Base64Encoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/compression/ZlibEncoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
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jar/io/netty/handler/codec/compression/CompressionException.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
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*
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jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2Rand.java
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/opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2Decoder.java
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\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/DecoderResultProvider.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/json/JsonObjectDecoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/AsciiHeadersEncoder.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/FastLz.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2BitReader.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/Lz4Constants.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/json/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-

```
jar/io/netty/handler/codec/MessageAggregationException.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
*
/opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2Constants.java
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```

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```
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
*
/opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/HeadersUtils.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/ProtocolDetectionState.java
```

\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java

\*

/opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java

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\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/META-INF/maven/io.netty/netty-codec/pom.xml

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\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/Lz4XXHash32.java

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 */
/*
 * Written by Robert Harder and released to the public domain, as explained at
 * http://creativecommons.org/licenses/publicdomain
 */
/**
 * Utility class for {@link ByteBuf} that encodes and decodes to and from
 * Base64 notation.
 * <p>
 *
 * The encoding and decoding algorithm in this class has been derived from
 * Robert Harder's Public Domain
 \* Base64 Encoder/Decoder.
 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
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\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/CharSequenceValueConverter.java

\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/ValueConverter.java

\*

/opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/DefaultHeadersImpl.java

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\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/DatagramPacketDecoder.java

\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/string/LineSeparator.java

\*

/opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/ByteBufChecksum.java

\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/DateFormatter.java

\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/CodecOutputList.java

\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/DatagramPacketEncoder.java

\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/string/LineEncoder.java

\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/compression/CompressionUtil.java

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 * /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/xml/XmlFrameDecoder.java
 * /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/compression/Crc32c.java
 *
 /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
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 */
```

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

<p>

\* { @link LengthFieldBasedFrameDecoder } has many configuration parameters so  
\* that it can decode any message with a length field, which is often seen in  
\* proprietary client-server protocols. Here are some example that will give  
\* you the basic idea on which option does what.

\*

\* <h3>2 bytes length field at offset 0, do not strip header</h3>

\*

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

\* <pre>

```
* <b>lengthFieldOffset</b> = <b>0</b>
* <b>lengthFieldLength</b> = <b>2</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0 (= do not strip header)
```

\*

\* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)

```
* +-----+-----+      +-----+-----+
* | Length | Actual Content
* |---->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +-----+-----+      +-----+-----+
```

\* </pre>

\*

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

\*

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

\* <pre>

```
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
```

\*

\* BEFORE DECODE (14 bytes)      AFTER DECODE (12 bytes)

```
* +-----+-----+      +-----+
* | Length | Actual Content |---->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +-----+-----+      +-----+
```

\* </pre>

\*

\* <h3>2 bytes length field at offset 0, do not strip header, the length field



\* represents the length of the whole message

\* In most cases, the length field represents the length of the message body only, as shown in the previous examples. However, in some protocols, the length field represents the length of the whole message, including the message header. In such a case, we specify a non-zero `lengthAdjustment`. Because the length value in this example message is always greater than the body length by 2, we specify `-2` as `lengthAdjustment` for compensation.

```
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
```

```
* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)
* +-----+-----+-----+-----+
* | Length | Actual Content |---->| Length | Actual
  Content |
* | 0x000E | "HELLO, WORLD" |   | 0x000E | "HELLO, WORLD" |
* +-----+-----+-----+-----+
```

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

\* The following message is a simple variation of the first example. An extra header value is prepended to the message. `lengthAdjustment` is zero again because the decoder always takes the length of the prepended data into account during frame length calculation.

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

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

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

\* This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive `lengthAdjustment` so that the decoder counts the extra

```

* header into the frame length calculation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* <b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)          AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Header 1 | Actual Content |----->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" | | 0x00000C | 0xCAFE | "HELLO,
WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
*
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>
*
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because

```

the length field already includes the whole header length.

```
* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b> 3</b>
*
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+
* </pre>
* @see LengthFieldPrepender
*/
```

Found in path(s):

`/opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java`

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*/
/*
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* http://creativecommons.org/licenses/publicdomain
*/
/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert
  Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/
```

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\* /opt/ws\_local/PERMITS\_SQL/1068233848\_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/base64/Base64Dialect.java

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\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/DefaultChannelHandlerContext.java

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/META-INF/maven/io.netty/netty-transport/pom.xml

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/\*\*

\* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in  
\* its { @link ChannelPipeline }.

\*

\* <h3>Sub-types</h3>

\* <p>

\* { @link ChannelHandler } itself does not provide many methods, but you usually have to implement one of its  
subtypes:

\* <ul>

\* <li>{ @link

ChannelInboundHandler } to handle inbound I/O events, and</li>

\* <li>{ @link ChannelOutboundHandler } to handle outbound I/O operations.</li>

\* </ul>

\* </p>

\* <p>

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

\* <ul>

\* <li>{ @link ChannelInboundHandlerAdapter } to handle inbound I/O events,</li>

\* <li>{ @link ChannelOutboundHandlerAdapter } to handle outbound I/O operations, and</li>

\* <li>{ @link ChannelDuplexHandler } to handle both inbound and outbound events</li>

\* </ul>

\* </p>

\* <p>

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

\* </p>

\*

\* <h3>The context object</h3>

\* <p>

\* A { @link ChannelHandler } is provided with a { @link ChannelHandlerContext }

\* object. A `{ @link ChannelHandler }` is supposed to interact with the  
 \* `{ @link ChannelPipeline }` it belongs to via a context object. Using the  
 \* context object, the `{ @link ChannelHandler }` can pass events upstream or  
 \* downstream, modify the pipeline dynamically,  
 or store the information  
 \* (using `{ @link AttributeKey }`s) which is specific to the handler.

\*

\* `<h3>State management</h3>`

\*

\* A `{ @link ChannelHandler }` often needs to store some stateful information.

\* The simplest and recommended approach is to use member variables:

\* `<pre>`

\* `public interface Message {`

\* `// your methods here`

\* `}`

\*

\* `public class DataServerHandler extends { @link SimpleChannelInboundHandler } &lt; Message &gt; {`

\*

\* `<b>private boolean loggedIn;</b>`

\*

\* `{ @code @Override }`

\* `public void channelRead0({ @link ChannelHandlerContext } ctx, Message message) {`

\* `if (message instanceof LoginMessage) {`

\* `authenticate((LoginMessage) message);`

\* `<b>loggedIn = true;</b>`

\* `} else (message instanceof GetDataMessage) {`

\* `if (<b>loggedIn</b>) {`

\* `ctx.writeAndFlush(fetchSecret((GetDataMessage) message));`

\* `} else {`

\* `fail();`

\* `}`

\* `}`

\* `}`

\* `...`

\* `}`

\* `</pre>`

\* Because the handler instance has a state variable which is dedicated to  
 \* one connection, you have to create a new handler instance for each new  
 \* channel to avoid a race condition where a unauthenticated client can get  
 \* the confidential information:

\* `<pre>`

\* `// Create a new handler instance per channel.`

\* `// See { @link ChannelInitializer#initChannel(Channel) }.`

\* `public class DataServerInitializer extends { @link ChannelInitializer } &lt; { @link Channel } &gt; {`

\* `{ @code @Override }`

\* `public void initChannel({ @link Channel } channel) {`

\* `channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);`

\* `}`

```

* }
*
* </pre>
*
* <h4>Using { @link AttributeKey}s</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use { @link AttributeKey}s which is provided by
* { @link ChannelHandlerContext}:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* { @code @Sharable}
* public class DataServerHandler extends { @link SimpleChannelInboundHandler}&lt;Message&gt; {
*     private final { @link AttributeKey}&lt;Boolean&gt; auth =
*         { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     { @code @Override}
*     public void channelRead({ @link ChannelHandlerContext} ctx, Message message) {
*         { @link Attribute}&lt;Boolean&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
* }
* ...
* }
* </pre>
*
* Now that the state
of the handler is attached to the { @link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends { @link ChannelInitializer}&lt;Channel&gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     { @code @Override}
*     public void initChannel({ @link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);

```

```

*   }
* }
* </pre>
*
*
* <h4>The { @code @Sharable} annotation</h4>
* <p>
* In the example above which used an { @link AttributeKey},
* you might have noticed the { @code @Sharable} annotation.
* <p>
* If a { @link ChannelHandler} is annotated with the { @code @Sharable}
* annotation, it means you can create an instance of the handler just once and
* add it to one or more { @link ChannelPipeline}s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create
  a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
*
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the { @link ChannelHandler}, and
* { @link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/ChannelHandler.java

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\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/SimpleUserEventChannelHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/socket/nio/NioChannelOption.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/internal/package-info.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/bootstrap/FailedChannel.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/PendingBytesTracker.java  
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/opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-  
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\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/group/CombinedIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/DefaultEventLoop.java  
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/opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/bootstrap/AbstractBootstrap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/nio/NioTask.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/socket/DatagramPacket.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/local/LocalEventLoopGroup.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/socket/ChannelInputShutdownEvent.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/ChannelDuplexHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/Channel.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/AbstractChannel.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/EventLoop.java  
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/opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/embedded/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/socket/SocketChannel.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/ChannelFlushPromiseNotifier.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/MultithreadEventLoopGroup.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/oio/AbstractOioChannel.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/FixedRecvByteBufAllocator.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/DefaultChannelPromise.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/bootstrap/ServerBootstrap.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/DefaultFileRegion.java  
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/opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/AbstractChannelHandlerContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/ChannelPipelineException.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/FileRegion.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/ChannelPipeline.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/ChannelMetadata.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/EventLoopException.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/ChannelPromiseAggregator.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/DefaultEventLoopGroup.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/ChannelOutboundHandlerAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/socket/oio/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/group/DefaultChannelGroupFuture.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/socket/InternetProtocolFamily.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/nio/AbstractNioByteChannel.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/nio/NioEventLoop.java

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*
/opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/ChannelHandlerContext.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/nio/AbstractNioChannel.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/ChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/socket/DatagramChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/nio/NioEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/ChannelInitializer.java
*
/opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/ServerChannel.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/local/LocalChannelRegistry.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/embedded/EmbeddedSocketAddress.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/EventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/DefaultChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/oio/OioEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/RecvByteBufAllocator.java
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/opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/package-info.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/socket/ServerSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/bootstrap/Bootstrap.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/socket/ServerSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/CompleteChannelFuture.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/SucceededChannelFuture.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/bootstrap/package-info.java
*
/opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/oio/AbstractOioByteChannel.java

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jar/io/netty/channel/AbstractEventLoop.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/ReflectiveChannelFactory.java
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*
 /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/ChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/embedded/EmbeddedChannelId.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/PendingWriteQueue.java
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  - \* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/SelectStrategy.java
  - \*
  - /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/SelectStrategyFactory.java
  - \* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/DefaultSelectStrategy.java
  - \* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/bootstrap/AbstractBootstrapConfig.java
  - \* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/PreferHeapByteBufAllocator.java
  - \* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/ChannelOutboundInvoker.java
  - \* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/socket/DuplexChannel.java
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  - /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/DefaultSelectStrategyFactory.java
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  - \* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/bootstrap/BootstrapConfig.java
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- \* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
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- /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/group/ChannelGroup.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/ChannelId.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/ChannelOutboundBuffer.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/MessageSizeEstimator.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/DefaultChannelId.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/ConnectTimeoutException.java
- \*
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- \* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/group/DefaultChannelGroup.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/DefaultMessageSizeEstimator.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/group/ChannelGroupException.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/ChannelProgressivePromise.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/ChannelProgressiveFuture.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/AddressedEnvelope.java
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- \* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/nio/SelectedSelectionKeySet.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/SimpleChannelInboundHandler.java
- \* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java

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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/ChannelHandlerAdapter.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/DefaultChannelProgressivePromise.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/group/ChannelMatchers.java
*
/opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/bootstrap/ChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/group/ChannelMatcher.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
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/opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
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jar/io/netty/channel/pool/package-info.java
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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
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jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java  
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jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java  
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jar/io/netty/channel/pool/FixedChannelPool.java  
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jar/io/netty/channel/oio/OioByteStreamChannel.java  
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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/ChannelHandlerMask.java

\* /opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/EventLoopTaskQueueFactory.java

\*

/opt/ws\_local/PERMITS\_SQL/1068233910\_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/ExtendedClosedChannelException.java

## 1.317 netty-handler 4.1.50.Final

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\* /opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/PemValue.java

\* /opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/DelegatingSslContext.java

\*

/opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/PemX509Certificate.java

\* /opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/flow/package-info.java

\* /opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java

\* /opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/PemEncoded.java

```
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/Java8SslUtils.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/flush/package-info.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
*
/opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/PemPrivateKey.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/flush/FlushConsolidationHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslCertificateException.java
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*/
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```

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jar/io/netty/handler/ssl/util/SelfSignedCertificate.java
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\* /opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/KeyManagerFactoryWrapper.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/SslMasterKeyHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/address/DynamicAddressConnectHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/PseudoRandomFunction.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/TrustManagerFactoryWrapper.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java

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jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
*
/opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/traffic/TrafficCounter.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/traffic/package-info.java
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
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jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslSession.java
*
/opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
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jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
*
/opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
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jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
```

```
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
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 /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
```

```
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
jar/io/netty/handler/ssl/OptionalSslHandler.java
```

```
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
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jar/io/netty/handler/ssl/ocsp/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/SslCompletionEvent.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/SniCompletionEvent.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/SslClientHelloHandler.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/Conscrypt.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/AbstractSniHandler.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/PemReader.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ipfilter/IpFilterRule.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java

\* /opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/JdkSslContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java  
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\*  
/opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/ApplicationProtocolUtil.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/SslUtils.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/JdkSslClientContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068233959\_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java

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# 1.318 postgresql 42.2.14

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- \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdySettingsFrame.java
- \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-jar/io/netty/handler/codec/rtsp/package-info.java
- \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-jar/io/netty/handler/codec/http/DefaultHttpMessage.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-jar/io/netty/handler/codec/http/DefaultHttpResponse.java
- \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-jar/io/netty/handler/codec/http/CookieDecoder.java
- \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshakerFactory.java
- \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-jar/io/netty/handler/codec/http/multipart/CaseIgnoringComparator.java
- \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-jar/io/netty/handler/codec/http/HttpContentDecoder.java
- \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketFrame.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-jar/io/netty/handler/codec/http/websocketx/PongWebSocketFrame.java
- \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-

jar/io/netty/handler/codec/spdy/SpdyHttpEncoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
 jar/io/netty/handler/codec/http/multipart/MemoryAttribute.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
 jar/io/netty/handler/codec/http/HttpObjectAggregator.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
 jar/io/netty/handler/codec/http/multipart/HttpPostStandardRequestDecoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
 jar/io/netty/handler/codec/http/multipart/MixedAttribute.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
 jar/io/netty/handler/codec/http/multipart/MemoryFileUpload.java  
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 jar/io/netty/handler/codec/http/multipart/AbstractHttpData.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
 jar/io/netty/handler/codec/http/HTTPHeaderDateFormat.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
 jar/io/netty/handler/codec/http/DefaultCookie.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
 jar/io/netty/handler/codec/http/Cookie.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
 jar/io/netty/handler/codec/http/DefaultLastHttpContent.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
 jar/io/netty/handler/codec/http/multipart/AbstractDiskHttpData.java  
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 jar/io/netty/handler/codec/http/websocketx/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
 jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker13.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
 jar/io/netty/handler/codec/http/HttpRequestEncoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
 jar/io/netty/handler/codec/http/multipart/HttpPostRequestEncoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
 jar/io/netty/handler/codec/http/multipart/HttpDataFactory.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
 jar/io/netty/handler/codec/http/multipart/HttpPostBodyUtil.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
 jar/io/netty/handler/codec/http/multipart/HttpPostMultipartRequestDecoder.java  
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 jar/io/netty/handler/codec/http/websocketx/ContinuationWebSocketFrame.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
 jar/io/netty/handler/codec/http/DefaultHttpRequest.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
 jar/io/netty/handler/codec/http/HttpObjectDecoder.java

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* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
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* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
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/opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
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* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
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* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
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* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/http/HttpHeaders.java
* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/http/HttpClientCodec.java
* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/http/package-info.java
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/opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/rtsp/RtspResponseEncoder.java
* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/http/HttpContentCompressor.java
* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/http/HttpResponse.java
* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketVersion.java
* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/http/multipart/DiskFileUpload.java
* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketUtil.java
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/opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/spdy/SpdySession.java
* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/http/multipart/Attribute.java
* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/http/multipart/FileUpload.java
* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/http/HttpObjectEncoder.java
* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/http/HttpMethod.java
* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/http/websocketx/BinaryWebSocketFrame.java
* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/http/DefaultHttpHeaders.java
*

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/opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
 jar/io/netty/handler/codec/rtsp/RtspVersions.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
 jar/io/netty/handler/codec/rtsp/RtspObjectDecoder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
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 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
 jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker08.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
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 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
 jar/io/netty/handler/codec/http/multipart/InterfaceHttpPostRequestDecoder.java  
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 jar/io/netty/handler/codec/http/DefaultHttpObject.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
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 jar/io/netty/handler/codec/rtsp/RtspMethods.java  
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 jar/io/netty/handler/codec/http/multipart/MixedFileUpload.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
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 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
 jar/io/netty/handler/codec/http/multipart/AbstractMemoryHttpData.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
 jar/io/netty/handler/codec/http/websocketx/PingWebSocketFrame.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
 jar/io/netty/handler/codec/http/multipart/InternalAttribute.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
 jar/io/netty/handler/codec/http/HttpObject.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
 jar/io/netty/handler/codec/http/websocketx/WebSocketHandshakeException.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-  
 jar/io/netty/handler/codec/http/multipart/HttpData.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-

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jar/io/netty/handler/codec/http/HttpRequest.java
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* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
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* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/http/HttpConstants.java
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/opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/http/HttpContent.java
* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/http/websocketx/TextWebSocketFrame.java
* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
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* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
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* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/http/HttpServerCodec.java
* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/spdy/package-info.java
* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/http/HttpVersion.java
*
/opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/http/multipart/DefaultHttpDataFactory.java
* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/rtsp/RtspRequestDecoder.java
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/opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-jar/io/netty/handler/codec/http/multipart/FileUploadUtil.java

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jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameEncoder.java
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- \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameDecoderDelegate.java
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- \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/package-info.java
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- \* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateFrameServerExtensionHandshaker.java
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jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtensionHandshaker.java
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* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/http/HttpStatusClass.java
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jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateClientExtensionHandshaker.j
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* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/http/ReadOnlyHttpHeaders.java
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/opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
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\* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-jar/io/netty/handler/codec/spdy/SpdyWindowUpdateFrame.java

\* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-jar/io/netty/handler/codec/http/ComposedLastHttpContent.java

\* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandler.java

\*

/opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-jar/io/netty/handler/codec/spdy/SpdyGoAwayFrame.java

\* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyHeadersFrame.java

\* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockJZlibEncoder.java

\* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-jar/io/netty/handler/codec/http/FullHttpRequest.java

\* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdySynStreamFrame.java

\* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-jar/io/netty/handler/codec/spdy/SpdyPingFrame.java

\*

/opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeadersFrame.java

\* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyDataFrame.java

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jar/io/netty/handler/codec/spdy/SpdyVersion.java
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jar/io/netty/handler/codec/spdy/DefaultSpdyStreamFrame.java
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jar/io/netty/handler/codec/spdy/SpdyDataFrame.java
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* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/spdy/DefaultSpdyWindowUpdateFrame.java
*
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jar/io/netty/handler/codec/spdy/SpdyStreamFrame.java
* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibEncoder.java
* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/spdy/DefaultSpdyRstStreamFrame.java
* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
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\* /opt/ws\_local/PERMITS\_SQL/1068253706\_1594328103.29/0/netty-codec-http-4-1-50-final-sources-jar/io/netty/handler/codecs/http/HttpClientUpgradeHandler.java

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* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1068253706_1594328103.29/0/netty-codec-http-4-1-50-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameDecoder.java
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# 1.320 netty-transport-native-epoll 4.1.50.Final

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jar/io/netty/channel/epoll/EpollTcpInfo.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-
jar/io/netty/channel/epoll/EpollDatagramChannel.java
*
/opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-
jar/io/netty/channel/epoll/Epoll.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-
jar/io/netty/channel/epoll/package-info.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-
jar/io/netty/channel/epoll/EpollSocketChannel.java
```

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jar/io/netty/channel/epoll/EpollServerSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-
jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-
jar/io/netty/channel/epoll/EpollChannelOption.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-
jar/io/netty/channel/epoll/AbstractEpollChannel.java
*
/opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-
jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-
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*/
/**
* Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
* Keys can only be set on, not read to prevent a potential leak, as they are confidential.
* Allowing them being read would mean anyone with access to the channel could get them.
*/
```

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\* /opt/ws\_local/PERMITS\_SQL/1068253685\_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java

\*

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*/
/**
 * Set the { @code TCP_MD5SIG } option on the socket. See { @code linux/tcp.h } for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
```

```
*/
/**
 * Set the { @code TCP_QUICKACK } option on the socket. See <a
href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
 * for more details.
*/
```

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\* /opt/ws\_local/PERMITS\_SQL/1068253685\_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollChannelConfig.java  
\* /opt/ws\_local/PERMITS\_SQL/1068253685\_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java



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\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/primitives/ImmutableDoubleArray.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/primitives/ImmutableIntArray.java

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\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/RecursiveDeleteOption.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/graph/MutableNetwork.java

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/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/graph/Network.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/graph/PredecessorsFunction.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/InsecureRecursiveDeleteException.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/graph/MutableGraph.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/graph/Graphs.java

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- \* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/EmptyImmutableListMultimap.java
- \* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/UnmodifiableIterator.java
- \* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ImmutableMap.java
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- \* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/StandardRowSortedTable.java
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jar/com/google/common/collect/ImmutableCollection.java  
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jar/com/google/common/collect/Platform.java  
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jar/com/google/common/collect/Range.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/collect/HashBasedTable.java  
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jar/com/google/common/collect/Serialization.java  
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jar/com/google/common/collect/ImmutableSortedSet.java  
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jar/com/google/common/collect/ImmutableMultimap.java  
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\*

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 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
```

jar/com/google/common/util/concurrent/IgnoreJRERRequirement.java

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/TransformedIterator.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/TreeRangeMap.java

\*

/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/TreeTraverser.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/DescendingImmutableSortedSet.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/SortedMultisetBridge.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/CompactHashSet.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/FilteredMultimap.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ForwardingBlockingDeque.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ForwardingImmutableList.java

\*

/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/CompactHashMap.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ForwardingNavigableSet.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/FilteredKeySetMultimap.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/DescendingMultiset.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/TransformedListIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ForwardingDeque.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/CompactLinkedHashMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/CompactLinkedHashSet.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/RangeMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ForwardingNavigableMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/UnmodifiableSortedMultiset.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ForwardingImmutableSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/RegularImmutableAsList.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/AbstractMultimap.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ImmutableEnumMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ForwardingImmutableMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/FilteredEntrySetMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/AllEqualOrdering.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/EvictingQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/FilteredEntryMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/FilteredKeyListMultimap.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/AbstractNavigableMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/FilteredSetMultimap.java  
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/\*\*

\* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain  
\* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available  
\* under GWT but with a slightly different signature.

\*

\* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler  
wouldn't recognize

\* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT  
\* compiler to autostrip the normal server method in order to expose the special, inherited GWT  
\* version.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/util/concurrent/Partially.java

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\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/util/concurrent/AsyncCallable.java



\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/hash/LittleEndianByteArray.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/Platform.java  
\*

/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/hash/MacHashFunction.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/AggregateFutureState.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/hash/FarmHashFingerprint64.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ConsumingQueueIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/ReaderInputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/CombinedFuture.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/InterruptibleTask.java

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\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/Interners.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/Functions.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/CountingInputStream.java  
\*

/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/Predicates.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/CharStreams.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/Suppliers.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/Supplier.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/eventbus/AsyncEventBus.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/AbstractFuture.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/primitives/Primitives.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/ListenableFuture.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/eventbus/EventBus.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/Defaults.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/eventbus/AllowConcurrentEvents.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/MultiInputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/HashBiMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/Throwables.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/Resources.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/FinalizableReference.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/LittleEndianDataOutputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/EnumMultiset.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/Preconditions.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/DirectExecutor.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/eventbus/Subscribe.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-

jar/com/google/common/base/Objects.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/io/Closeables.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/base/Charsets.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/io/LineReader.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/base/FinalizablePhantomReference.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/base/FinalizableSoftReference.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/io/LineBuffer.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/base/Predicate.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/io/ByteStreams.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/base/Function.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/util/concurrent/ExecutionList.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/io/CountingOutputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/base/AbstractIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/base/FinalizableWeakReference.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/eventbus/DeadEvent.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/base/FinalizableReferenceQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/eventbus/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/io/Flushables.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/io/LittleEndianDataInputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/io/Files.java  
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*/
/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
 * key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
 * version.
 *
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable}
 to use {@link
 *   ImmutableSortedMap#of(Comparable, Object)}.</b>
 */

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java

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 * express
 * or implied. See the License for the specific language governing permissions and limitations under
 * the License.
 */
/**
 * Holder for web specializations of methods of {@code Floats}. Intended to be empty for regular
 * version.
 */

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/primitives/FloatsMethodsForWeb.java

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```
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collect/AbstractSequentialIterator.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collect/SortedMapDifference.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collect/ForwardingSortedSetMultimap.java
*
/opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collect/RowSortedTable.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collect/UnmodifiableListIterator.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collect/ForwardingImmutableCollection.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collect/ForwardingListMultimap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collect/ForwardingSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collect/MinMaxPriorityQueue.java
```

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\*/  
/\*\*

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

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/primitives/IntsMethodsForWeb.java

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jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/reflect/TypeToken.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/annotations/VisibleForTesting.java

\*

/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/util/concurrent/ImmediateFuture.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/base/CaseFormat.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/util/concurrent/AbstractCatchingFuture.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/util/concurrent/TimeoutFuture.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-

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jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/io/AppendableWriter.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
*
/opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/io/PatternFilenameFilter.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/escape/CharEscaper.java
*
/opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/util/concurrent/Futures.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/util/concurrent/AbstractTransformFuture.java
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\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ImmutableMapEntry.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/MoreFiles.java

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\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/reflect/Reflection.java

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jar/com/google/common/collect/Streams.java

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jar/com/google/common/collect/ImmutableSortedAsList.java

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jar/com/google/common/hash/package-info.java

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/*
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
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* following header:
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*/
```

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jar/com/google/common/html/package-info.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collect/FilteredKeyMultimap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/escape/package-info.java
*
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/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/FileWriteMode.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/reflect/Invokable.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ImmutableRangeSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/xml/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/cache/LongAddable.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/reflect/TypeToInstanceMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/math/LinearTransformation.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java  
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/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/ServiceManager.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/SmoothRateLimiter.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/reflect/MutableTypeToInstanceMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/RateLimiter.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/hash/LongAddables.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/ByteSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/hash/AbstractByteHasher.java  
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/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/ByteSink.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/math/StatsAccumulator.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/math/Stats.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/reflect/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/reflect/AbstractInvocationHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/reflect/Parameter.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/StandardSystemProperty.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/CartesianList.java

\*  
/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/BaseEncoding.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/hash/LongAddable.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ImmutableRangeMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/math/PairedStatsAccumulator.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/math/PairedStats.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/CharSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/hash/SipHashFunction.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/reflect/ClassPath.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/CharSink.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/reflect/Element.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/hash/ChecksumHashFunction.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/Closer.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/reflect/TypeCapture.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/cache/LongAddables.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/cache/ForwardingCache.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/cache/Cache.java

\*

/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/cache/AbstractLoadingCache.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/cache/ForwardingLoadingCache.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/ForwardingExecutorService.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/hash/HashCode.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/math/BigIntegerMath.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/net/HostAndPort.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/cache/CacheStats.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/ExecutionError.java

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/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/cache/AbstractCache.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/RegularImmutableMultiset.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/hash/BloomFilterStrategies.java  
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/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/cache/RemovalCause.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/cache/RemovalListener.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/cache/CacheLoader.java  
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/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/hash/AbstractStreamingHasher.java  
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jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java  
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jar/com/google/common/primitives/Platform.java

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jar/com/google/common/collect/ForwardingSortedMultiset.java  
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- \* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/graph/StandardValueGraph.java
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\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/graph/EdgesConnecting.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/graph/MutableValueGraph.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/hash/ImmutableSupplier.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/JdkBackedImmutableMultiset.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/ExecutionSequencer.java

\*

/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/JdkBackedImmutableSet.java

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\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/GwtTransient.java

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\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/SortedMultisets.java

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

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/primitives/DoublesMethodsForWeb.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ImmutableSetMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ImmutableAsList.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ImmutableEnumSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ImmutableSortedMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ForwardingTable.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/RegularImmutableSortedSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/RegularImmutableList.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ImmutableTable.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/DiscreteDomain.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/SingletonImmutableList.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/SingletonImmutableTable.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/EmptyImmutableSetMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ComputationException.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ImmutableClassToInstanceMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ArrayTable.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/ComparisonChain.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/AbstractIndexedListIterator.java

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\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/primitives/Doubles.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/primitives/Chars.java

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/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/FileBackedOutputStream.java

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\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
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\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/primitives/Floats.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/collect/FluentIterable.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
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jar/com/google/common/net/InetAddresses.java  
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jar/com/google/common/primitives/Shorts.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
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jar/com/google/common/base/internal/Finalizer.java  
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jar/com/google/common/io/MultiReader.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/escape/UnicodeEscaper.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/primitives/Longs.java

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\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/BaseImmutableMultimap.java

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\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/LinkedHashMultimap.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/NaturalOrdering.java

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jar/com/google/common/collect/UsingToStringOrdering.java  
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jar/com/google/common/collect/TreeMultiset.java  
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jar/com/google/common/collect/SortedSetMultimap.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
 jar/com/google/common/collect/SetMultimap.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
 jar/com/google/common/collect/NullsLastOrdering.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
 jar/com/google/common/collect/ImmutableSet.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
 jar/com/google/common/collect/EnumHashBiMap.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
 jar/com/google/common/collect/AbstractListMultimap.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
 jar/com/google/common/collect/ReverseOrdering.java  
 \* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-

jar/com/google/common/collect/EnumBiMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/collect/HashMultiset.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/collect/NullsFirstOrdering.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/collect/ForwardingConcurrentMap.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/collect/AbstractSetMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/collect/Multimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/collect/ForwardingList.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/collect/AbstractMapBasedMultiset.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/collect/ByFunctionOrdering.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/collect/Iterables.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/collect/HashMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/collect/ReverseNaturalOrdering.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/collect/ForwardingMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/collect/ForwardingListIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/collect/LinkedListMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/collect/ArrayListMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/collect/ForwardingMultiset.java  
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\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/util/concurrent/AtomicDoubleArray.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/hash/LongAdder.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/hash/Striped64.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/cache/LongAdder.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/cache/Striped64.java

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\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/JdkPattern.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/CommonPattern.java

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/PatternCompiler.java

\*

/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/CommonMatcher.java

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/\*\*

\* Returns an array containing all of the elements in the specified collection. This method  
\* returns the elements in the order they are returned by the collection's iterator. The returned  
\* array is "safe" in that no references to it are maintained by the collection. The caller is  
\* thus free to modify the returned

array.

\*

\* <p>This method assumes that the collection size doesn't change while the method is running.

\*

\* <p>TODO(kevinb): support concurrently modified collections?

\*

\* @param c the collection for which to return an array of elements

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/collect/ObjectArrays.java

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\*

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

class.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-  
jar/com/google/common/util/concurrent/Striped.java

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Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collect/RegularImmutableTable.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/util/concurrent/JdkFutureAdapters.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/base/Platform.java
*
/opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collect/DenseImmutableTable.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collect/MapMaker.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/cache/CacheBuilder.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/net/HostSpecifier.java
*
/opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/util/concurrent/SettableFuture.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/annotations/GwtCompatible.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/primitives/UnsignedBytes.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/xml/XmlEscapers.java
```



\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/cache/LocalCache.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/LineProcessor.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/ForwardingFluentFuture.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/escape/Platform.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/AbstractService.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/SparseImmutableTable.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/escape/Escapers.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/base/Splitter.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/primitives/SignedBytes.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/annotations/GwtIncompatible.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/reflect/TypeResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/cache/ReferenceEntry.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/AbstractIdleService.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/escape/ArrayBasedCharEscaper.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/io/ByteProcessor.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/html/HtmlEscapers.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/Service.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/ForwardingFuture.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/util/concurrent/Callables.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/collect/Cut.java  
\* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-

```
jar/com/google/common/net/InternetDomainName.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/io/ByteArrayDataInput.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/escape/ArrayBasedEscaperMap.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/net/UrlEscapers.java
```

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* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/net/package-info.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collect/ContiguousSet.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
*
/opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/primitives/package-info.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/collect/SortedLists.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/base/Equivalence.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/util/concurrent/Monitor.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/annotations/package-info.java
*
```

```
/opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/base/Ascii.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/annotations/Beta.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/util/concurrent/Atomics.java
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/base/Strings.java
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```

```
*/
```

```
/**
```

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

```
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1068453676_1594389191.24/0/guava-29-0-jre-sources-2-
jar/com/google/common/base/ExtraObjectsMethodsForWeb.java
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- \* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/graph/BaseGraph.java
- \* /opt/ws\_local/PERMITS\_SQL/1068453676\_1594389191.24/0/guava-29-0-jre-sources-2-jar/com/google/common/graph/Traverser.java

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## 1.325 asm 8.0.1

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jar/org/objectweb/asm/Opcodes.java
* /opt/ws_local/PERMITS_SQL/1068774065_1594456654.59/0/asm-8-0-1-sources-
jar/org/objectweb/asm/Symbol.java
* /opt/ws_local/PERMITS_SQL/1068774065_1594456654.59/0/asm-8-0-1-sources-
jar/org/objectweb/asm/Type.java
*
/opt/ws_local/PERMITS_SQL/1068774065_1594456654.59/0/asm-8-0-1-sources-
jar/org/objectweb/asm/ModuleVisitor.java
* /opt/ws_local/PERMITS_SQL/1068774065_1594456654.59/0/asm-8-0-1-sources-
jar/org/objectweb/asm/ClassWriter.java
* /opt/ws_local/PERMITS_SQL/1068774065_1594456654.59/0/asm-8-0-1-sources-
jar/org/objectweb/asm/FieldWriter.java
* /opt/ws_local/PERMITS_SQL/1068774065_1594456654.59/0/asm-8-0-1-sources-
jar/org/objectweb/asm/RecordComponentWriter.java
* /opt/ws_local/PERMITS_SQL/1068774065_1594456654.59/0/asm-8-0-1-sources-
jar/org/objectweb/asm/Context.java
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jar/org/objectweb/asm/Handler.java
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jar/org/objectweb/asm/Attribute.java
* /opt/ws_local/PERMITS_SQL/1068774065_1594456654.59/0/asm-8-0-1-sources-
jar/org/objectweb/asm/FieldVisitor.java
* /opt/ws_local/PERMITS_SQL/1068774065_1594456654.59/0/asm-8-0-1-sources-
jar/org/objectweb/asm/TypeReference.java
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/opt/ws_local/PERMITS_SQL/1068774065_1594456654.59/0/asm-8-0-1-sources-
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jar/org/objectweb/asm/signature/SignatureReader.java
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\* /opt/ws\_local/PERMITS\_SQL/1068774065\_1594456654.59/0/asm-8-0-1-sources-jar/org/objectweb/asm/Handle.java  
\* /opt/ws\_local/PERMITS\_SQL/1068774065\_1594456654.59/0/asm-8-0-1-sources-jar/org/objectweb/asm/MethodTooLargeException.java  
\* /opt/ws\_local/PERMITS\_SQL/1068774065\_1594456654.59/0/asm-8-0-1-sources-jar/org/objectweb/asm/ConstantDynamic.java  
\*  
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/opt/ws\_local/PERMITS\_SQL/1068774065\_1594456654.59/0/asm-8-0-1-sources-jar/org/objectweb/asm/Label.java  
\* /opt/ws\_local/PERMITS\_SQL/1068774065\_1594456654.59/0/asm-8-0-1-sources-jar/org/objectweb/asm/RecordComponentVisitor.java  
\* /opt/ws\_local/PERMITS\_SQL/1068774065\_1594456654.59/0/asm-8-0-1-sources-jar/org/objectweb/asm/CurrentFrame.java  
\* /opt/ws\_local/PERMITS\_SQL/1068774065\_1594456654.59/0/asm-8-0-1-sources-jar/org/objectweb/asm/signature/SignatureVisitor.java  
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- jar/org/objectweb/asm/package.html
- \* /opt/ws\_local/PERMITS\_SQL/1068774065\_1594456654.59/0/asm-8-0-1-sources-
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jar/io/micrometer/prometheus/package-info.java
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jar/io/micrometer/prometheus/PrometheusCounter.java
* /opt/ws_local/PERMITS_SQL/1069054003_1594480338.39/0/micrometer-registry-prometheus-1-5-1-sources-
jar/io/micrometer/prometheus/PrometheusRenameFilter.java
*
/opt/ws_local/PERMITS_SQL/1069054003_1594480338.39/0/micrometer-registry-prometheus-1-5-1-sources-
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jar/io/micrometer/prometheus/PrometheusTimer.java
* /opt/ws_local/PERMITS_SQL/1069054003_1594480338.39/0/micrometer-registry-prometheus-1-5-1-sources-
jar/io/micrometer/prometheus/MicrometerCollector.java
* /opt/ws_local/PERMITS_SQL/1069054003_1594480338.39/0/micrometer-registry-prometheus-1-5-1-sources-
jar/io/micrometer/prometheus/PrometheusConfig.java
* /opt/ws_local/PERMITS_SQL/1069054003_1594480338.39/0/micrometer-registry-prometheus-1-5-1-sources-
```

```
jar/io/micrometer/prometheus/PrometheusMeterRegistry.java
* /opt/ws_local/PERMITS_SQL/1069054003_1594480338.39/0/micrometer-registry-prometheus-1-5-1-sources-
jar/io/micrometer/prometheus/PrometheusDistributionSummary.java
*
/opt/ws_local/PERMITS_SQL/1069054003_1594480338.39/0/micrometer-registry-prometheus-1-5-1-sources-
jar/io/micrometer/prometheus/PrometheusNamingConvention.java
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jar/io/micrometer/prometheus/PrometheusLongTaskTimer.java
* /opt/ws_local/PERMITS_SQL/1069054003_1594480338.39/0/micrometer-registry-prometheus-1-5-1-sources-
jar/io/micrometer/prometheus/HistogramFlavor.java
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jar/io/micrometer/core/util/internal/logging/MessageFormatter.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
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\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/Timer.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jetty/OnCompletionAsyncListener.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/internal/TimedScheduledExecutorService.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jetty/InstrumentedQueuedThreadPool.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/internal/TimedRunnable.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/util/internal/logging/WarnThenDebugLogger.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/internal/TimedCallable.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jvm/JvmMemory.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jetty/JettyServerThreadPoolMetrics.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jetty/JettyConnectionMetrics.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jetty/TimedHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/mongodb/MongoMetricsConnectionPoolListener.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/httpcomponents/PoolingHttpClientConnectionManagerMetricsBinder.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/logging/LoggingRegistryConfig.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/logging/LoggingMeterRegistry.java  
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/opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/MultiGauge.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/util/NamedThreadFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/push/PushMeterRegistry.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/kafka/KafkaConsumerMetrics.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/ipc/http/URLConnectionSender.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/ipc/http/OkHttpSender.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/ipc/http/HttpStatusClass.java  
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jar/io/micrometer/core/util/internal/logging/InternalLoggerFactory.java
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jar/io/micrometer/core/util/internal/logging/Slf4JLogger.java
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jar/io/micrometer/core/util/internal/logging/Slf4JLoggerFactory.java
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* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
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\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/step/StepRegistryConfig.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/cumulative/CumulativeFunctionCounter.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/cumulative/CumulativeDistributionSummary.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/noop/NoopGauge.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/internal/Mergeable.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/Measurement.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/hystrix/MicrometerMetricsPublisher.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/step/StepMeterRegistry.java  
\*  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/distribution/AbstractTimeWindowHistogram.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/search/MeterNotFoundException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/annotation/Incubating.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/MockClock.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/aop/TimedAspect.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
jar/io/micrometer/core/instrument/composite/CompositeCustomMeter.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
jar/io/micrometer/core/instrument/binder/tomcat/TomcatMetrics.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
jar/io/micrometer/core/instrument/binder/BaseUnits.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
jar/io/micrometer/core/instrument/binder/db/DatabaseTableMetrics.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
jar/io/micrometer/core/instrument/binder/hystrix/MicrometerMetricsPublisherCommand.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
jar/io/micrometer/core/instrument/internal/DefaultLongTaskTimer.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
jar/io/micrometer/core/instrument/noop/NoopFunctionTimer.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
jar/io/micrometer/core/lang/NonNull.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
jar/io/micrometer/core/instrument/FunctionTimer.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
jar/io/micrometer/core/instrument/distribution/PercentileHistogramBuckets.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
jar/io/micrometer/core/instrument/search/RequiredSearch.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
jar/io/micrometer/core/instrument/binder/MeterBinder.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
jar/io/micrometer/core/instrument/distribution/TimeWindowPercentileHistogram.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
jar/io/micrometer/core/instrument/config/MeterFilter.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
jar/io/micrometer/core/instrument/ImmutableTag.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
jar/io/micrometer/core/instrument/simple/SimpleMeterRegistry.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
jar/io/micrometer/core/instrument/util/StringEscapeUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
jar/io/micrometer/core/instrument/binder/cache/CaffeineCacheMetrics.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-

jar/io/micrometer/core/instrument/binder/logging/Log4j2Metrics.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
jar/io/micrometer/core/instrument/cumulative/CumulativeCounter.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
jar/io/micrometer/core/instrument/simple/CountingMode.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
jar/io/micrometer/core/instrument/Tag.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
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\*  
/opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
jar/io/micrometer/core/instrument/simple/SimpleConfig.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
jar/io/micrometer/core/instrument/config/InvalidConfigurationException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
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\*  
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jar/io/micrometer/core/instrument/binder/system/FileDescriptorMetrics.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
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jar/io/micrometer/core/instrument/internal/DefaultGauge.java  
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jar/io/micrometer/core/instrument/dropwizard/DropwizardFunctionTimer.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
jar/io/micrometer/core/instrument/util/MeterPartition.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
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 \* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/step/StepTimer.java  
 \* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/Metrics.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/Tags.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/AbstractTimer.java  
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 \*  
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 \* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/dropwizard/DropwizardDistributionSummary.java  
 \* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/dropwizard/DropwizardClock.java  
 \* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/distribution/pause/ClockDriftPauseDetector.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
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\*  
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\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
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\*  
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jar/io/micrometer/core/instrument/binder/okhttp3/OkHttpMetricsEventListener.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-  
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* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/binder/cache/JCacheMetrics.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/composite/CompositeMeter.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/internal/package-info.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/noop/NoopLongTaskTimer.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/composite/CompositeDistributionSummary.java
*
/opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/distribution/pause/package-info.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/composite/CompositeGauge.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/distribution/HistogramGauges.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/noop/NoopCounter.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/distribution/package-info.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-

```

```
jar/io/micrometer/core/instrument/Clock.java
*
/opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/dropwizard/DropwizardFunctionCounter.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/Counter.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/lang/NonNullApi.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/binder/jvm/JvmThreadMetrics.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/util/MeterEquivalence.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/dropwizard/DropwizardCounter.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/LongTaskTimer.java
*
/opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/DistributionSummary.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/binder/jvm/DiskSpaceMetrics.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/dropwizard/DropwizardTimer.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/binder/logging/LogbackMetrics.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/util/DoubleFormat.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/FunctionCounter.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/MeterRegistry.java
*
/opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/aop/CountedAspect.java
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\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/util/internal/logging/LocationAwareSlf4JLogger.java

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\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/cache/HazelcastIMapAdapter.java

\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/http/HttpRequestTags.java

\*

/opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/httpcomponents/HttpContextUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/config/validate/InvalidReason.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/httpcomponents/DefaultUriMapper.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/db/JooqExecuteListener.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/config/validate/PropertyValidator.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jetty/JettySslHandshakeMetrics.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/http/DefaultHttpServletRequestTagsProvider.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/config/validate/Validated.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/config/validate/DurationValidator.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jetty/JettyClientTags.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/http/Outcome.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/kafka/KafkaMetrics.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jpa/HibernateQueryMetrics.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/http/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/config/validate/ValidationException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/httpcomponents/MicrometerHttpClientInterceptor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jetty/JettyClientTagsProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/step/StepTuple2.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/db/MetricsDSLContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/step/StepValue.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/distribution/TimeWindowSum.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-jar/io/micrometer/core/instrument/binder/jvm/JvmHeapPressureMetrics.java  
\* /opt/ws\_local/PERMITS\_SQL/1069054010\_1594474692.29/0/micrometer-core-1-5-1-sources-

```
jar/io/micrometer/core/instrument/distribution/FixedBoundaryVictoriaMetricsHistogram.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/binder/http/HttpServletRequestTagsProvider.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/binder/jetty/JettyClientMetrics.java
* /opt/ws_local/PERMITS_SQL/1069054010_1594474692.29/0/micrometer-core-1-5-1-sources-
jar/io/micrometer/core/instrument/config/MeterRegistryConfigValidator.java
```

## 1.329 swagger-annotations 2.1.2

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```
* /opt/ws_local/PERMITS_SQL/1069435298_1594665075.15/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/servers/Server.java
* /opt/ws_local/PERMITS_SQL/1069435298_1594665075.15/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/media/ExampleObject.java
* /opt/ws_local/PERMITS_SQL/1069435298_1594665075.15/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/security/SecurityRequirements.java
*
/opt/ws_local/PERMITS_SQL/1069435298_1594665075.15/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/security/OAuthFlows.java
* /opt/ws_local/PERMITS_SQL/1069435298_1594665075.15/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/links/LinkParameter.java
* /opt/ws_local/PERMITS_SQL/1069435298_1594665075.15/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/parameters/RequestBody.java
* /opt/ws_local/PERMITS_SQL/1069435298_1594665075.15/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/media/Schema.java
* /opt/ws_local/PERMITS_SQL/1069435298_1594665075.15/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/responses/ApiResponse.java
```

\* /opt/ws\_local/PERMITS\_SQL/1069435298\_1594665075.15/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/Parameter.java

\*

/opt/ws\_local/PERMITS\_SQL/1069435298\_1594665075.15/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/callbacks/Callbacks.java

\* /opt/ws\_local/PERMITS\_SQL/1069435298\_1594665075.15/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/tags/Tags.java

\* /opt/ws\_local/PERMITS\_SQL/1069435298\_1594665075.15/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/servers/Servers.java

\* /opt/ws\_local/PERMITS\_SQL/1069435298\_1594665075.15/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/security/SecurityScheme.java

\* /opt/ws\_local/PERMITS\_SQL/1069435298\_1594665075.15/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/security/SecuritySchemes.java

\* /opt/ws\_local/PERMITS\_SQL/1069435298\_1594665075.15/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/Operation.java

\* /opt/ws\_local/PERMITS\_SQL/1069435298\_1594665075.15/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/media/Encoding.java

\*

/opt/ws\_local/PERMITS\_SQL/1069435298\_1594665075.15/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/tags/Tag.java

\* /opt/ws\_local/PERMITS\_SQL/1069435298\_1594665075.15/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/security/OAuthFlow.java

\* /opt/ws\_local/PERMITS\_SQL/1069435298\_1594665075.15/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/security/OAuthScope.java

\* /opt/ws\_local/PERMITS\_SQL/1069435298\_1594665075.15/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/media/Content.java

\* /opt/ws\_local/PERMITS\_SQL/1069435298\_1594665075.15/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/callbacks/Callback.java

\* /opt/ws\_local/PERMITS\_SQL/1069435298\_1594665075.15/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/info/License.java

\* /opt/ws\_local/PERMITS\_SQL/1069435298\_1594665075.15/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/security/SecurityRequirement.java

\*

/opt/ws\_local/PERMITS\_SQL/1069435298\_1594665075.15/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/ExternalDocumentation.java

\* /opt/ws\_local/PERMITS\_SQL/1069435298\_1594665075.15/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/info/Info.java

\* /opt/ws\_local/PERMITS\_SQL/1069435298\_1594665075.15/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/links/Link.java

\* /opt/ws\_local/PERMITS\_SQL/1069435298\_1594665075.15/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/responses/ApiResponse.java

\* /opt/ws\_local/PERMITS\_SQL/1069435298\_1594665075.15/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/Parameters.java

\* /opt/ws\_local/PERMITS\_SQL/1069435298\_1594665075.15/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/info/Contact.java

\* /opt/ws\_local/PERMITS\_SQL/1069435298\_1594665075.15/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/OpenAPIDefinition.java

\*

```
/opt/ws_local/PERMITS_SQL/1069435298_1594665075.15/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/headers/Header.java
* /opt/ws_local/PERMITS_SQL/1069435298_1594665075.15/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/media/DiscriminatorMapping.java
* /opt/ws_local/PERMITS_SQL/1069435298_1594665075.15/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/extensions/Extensions.java
* /opt/ws_local/PERMITS_SQL/1069435298_1594665075.15/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/Hidden.java
* /opt/ws_local/PERMITS_SQL/1069435298_1594665075.15/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/servers/ServerVariable.java
```

# 1.330 spring-security-oauth 2.3.8.RELEASE

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```
* /opt/ws_local/PERMITS_SQL/1070651034_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-
jar/org/springframework/security/oauth/provider/filter/UserAuthorizationProcessingFilter.java
* /opt/ws_local/PERMITS_SQL/1070651034_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-
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\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-jar/org/springframework/security/oauth/provider/ConsumerAuthentication.java  
\*  
\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-jar/org/springframework/security/oauth/common/signature/CoreOAuthSignatureMethodFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-jar/org/springframework/security/oauth/consumer/filter/OAuthConsumerProcessingFilter.java  
\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-jar/org/springframework/security/oauth/config/ConsumerServiceBeanDefinitionParser.java  
\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-jar/org/springframework/security/oauth/config/OAuthProviderBeanDefinitionParser.java  
\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-jar/org/springframework/security/oauth/consumer/filter/OAuthConsumerContextFilter.java  
\*  
\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-jar/org/springframework/security/oauth/provider/BaseConsumerDetails.java



\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-jar/org/springframework/security/oauth/provider/filter/AccessTokenProcessingFilter.java  
\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-jar/org/springframework/security/oauth/provider/attributes/ConsumerSecurityMetadataSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-jar/org/springframework/security/oauth/config/OAuthConsumerBeanDefinitionParser.java  
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\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-jar/org/springframework/security/oauth/provider/attributes/PermitAllConsumers.java

\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-jar/org/springframework/security/oauth/provider/token/InMemorySelfCleaningProviderTokenServices.java

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/opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-jar/org/springframework/security/oauth/consumer/InvalidOAuthRealmException.java

\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-jar/org/springframework/security/oauth/common/signature/SharedConsumerSecretImpl.java

\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-jar/org/springframework/security/oauth/provider/filter/OAuthProviderProcessingFilter.java

\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-jar/org/springframework/security/oauth/consumer/ProtectedResourceDetails.java

\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-jar/org/springframework/security/oauth/consumer/net/OAuthURLStreamHandlerFactory.java

\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-jar/org/springframework/security/oauth/common/signature/SharedConsumerSecret.java

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\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-

jar/org/springframework/security/oauth/provider/filter/CoreOAuthProviderSupport.java  
\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-  
jar/org/springframework/security/oauth/provider/attributes/DenyAllConsumers.java  
\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-  
jar/org/springframework/security/oauth/common/OAuthProviderParameter.java  
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/opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-  
jar/org/springframework/security/oauth/provider/attributes/ConsumerSecurityConfig.java  
\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-  
jar/org/springframework/security/oauth/consumer/nonce/UIDNonceFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-  
jar/org/springframework/security/oauth/consumer/net/OAuthOverHttpURLStreamHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-  
jar/org/springframework/security/oauth/consumer/ProtectedResourceDetailsService.java  
\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-  
jar/org/springframework/security/oauth/provider/attributes/ConsumerKeysAllowed.java  
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jar/org/springframework/security/oauth/consumer/InMemoryProtectedResourceDetailsService.java  
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\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-  
jar/org/springframework/security/oauth/consumer/OAuthConsumerSupport.java  
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jar/org/springframework/security/oauth/provider/ExtraTrustConsumerDetails.java  
\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-  
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jar/org/springframework/security/oauth/provider/token/RandomValueProviderTokenServices.java  
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jar/org/springframework/security/oauth/provider/token/OAuthProviderToken.java  
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jar/org/springframework/security/oauth/consumer/net/DefaultOAuthURLStreamHandlerFactory.java  
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jar/org/springframework/security/oauth/provider/verifier/VerificationFailedException.java  
\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-  
jar/org/springframework/security/oauth/common/signature/RSA\_SHA1SignatureMethod.java  
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jar/org/springframework/security/oauth/consumer/OAuthRequestFailedException.java  
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jar/org/springframework/security/oauth/common/signature/OAuthSignatureMethodFactory.java  
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jar/org/springframework/security/oauth/common/signature/SignatureSecretEditor.java  
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jar/org/springframework/security/oauth/consumer/token/HttpSessionBasedTokenServices.java  
\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-  
jar/org/springframework/security/oauth/provider/OAuthAuthenticationDetails.java  
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jar/org/springframework/security/oauth/consumer/nonce/NonceFactory.java  
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jar/org/springframework/security/oauth/provider/token/InMemoryProviderTokenServices.java  
\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-  
jar/org/springframework/security/oauth/config/ExpressionHandlerBeanDefinitionParser.java  
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jar/org/springframework/security/oauth/provider/ResourceSpecificConsumerDetails.java  
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/opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-  
jar/org/springframework/security/oauth/provider/ConsumerDetailsService.java  
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jar/org/springframework/security/oauth/common/OAuthException.java  
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jar/org/springframework/security/oauth/consumer/token/OAuthConsumerTokenServices.java  
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jar/org/springframework/security/oauth/common/signature/InvalidSignatureException.java  
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jar/org/springframework/security/oauth/provider/nonce/NullNonceServices.java  
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jar/org/springframework/security/oauth/consumer/UnverifiedRequestTokenException.java  
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jar/org/springframework/security/oauth/common/signature/PlainTextSignatureMethod.java  
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jar/org/springframework/security/oauth/provider/token/OAuthProviderTokenImpl.java  
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jar/org/springframework/security/oauth/provider/token/OAuthAccessProviderToken.java  
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/opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-  
jar/org/springframework/security/oauth/provider/nonce/NonceAlreadyUsedException.java  
\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-  
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/opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-  
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jar/org/springframework/security/oauth/provider/attributes/ConsumerSecurityVoter.java  
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jar/org/springframework/security/oauth/provider/ConsumerDetails.java  
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\* /opt/ws\_local/PERMITS\_SQL/1070651034\_1594726134.88/0/spring-security-oauth-2-3-8-release-sources-1-  
jar/org/springframework/security/oauth/config/ConsumerDetailsFactoryBean.java

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jar/org/springframework/security/oauth/consumer/client/CoreOAuthConsumerSupport.java

## 1.331 netty-handler-proxy 4.1.50.Final

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\* /opt/ws\_local/PERMITS\_SQL/1070968358\_1594795913.86/0/netty-handler-proxy-4-1-50-final-sources-jar/io/netty/handler/proxy/ProxyConnectException.java  
\* /opt/ws\_local/PERMITS\_SQL/1070968358\_1594795913.86/0/netty-handler-proxy-4-1-50-final-sources-jar/io/netty/handler/proxy/Socks5ProxyHandler.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1070968358\_1594795913.86/0/netty-handler-proxy-4-1-50-final-sources-jar/io/netty/handler/proxy/ProxyConnectionEvent.java  
\* /opt/ws\_local/PERMITS\_SQL/1070968358\_1594795913.86/0/netty-handler-proxy-4-1-50-final-sources-jar/io/netty/handler/proxy/Socks4ProxyHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1070968358\_1594795913.86/0/netty-handler-proxy-4-1-50-final-sources-jar/io/netty/handler/proxy/ProxyHandler.java  
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\* /opt/ws\_local/PERMITS\_SQL/1070968358\_1594795913.86/0/netty-handler-proxy-4-1-50-final-sources-jar/io/netty/handler/proxy/package-info.java

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\* /opt/ws\_local/PERMITS\_SQL/1070968358\_1594795913.86/0/netty-handler-proxy-4-1-50-final-sources-jar/META-INF/maven/io.netty/netty-handler-proxy/pom.xml

## 1.332 netty-codec-socks 4.1.50.Final

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\* /opt/ws\_local/PERMITS\_SQL/1070968323\_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressEncoder.java

\* /opt/ws\_local/PERMITS\_SQL/1070968323\_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressDecoder.java

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/opt/ws\_local/PERMITS\_SQL/1070968323\_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-jar/io/netty/handler/codec/socksx/SocksPortUnificationServerHandler.java

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```

Found in path(s):

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* /opt/ws_local/PERMITS_SQL/1070968323_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5ClientEncoder.java
* /opt/ws_local/PERMITS_SQL/1070968323_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequestDecoder.java
*
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jar/io/netty/handler/codec/socksx/v4/Socks4Message.java
* /opt/ws_local/PERMITS_SQL/1070968323_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-
jar/io/netty/handler/codec/socksx/AbstractSocksMessage.java
* /opt/ws_local/PERMITS_SQL/1070968323_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-
jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequestDecoder.java
* /opt/ws_local/PERMITS_SQL/1070968323_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-
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jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponseDecoder.java
* /opt/ws_local/PERMITS_SQL/1070968323_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-
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jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequestDecoder.java
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jar/io/netty/handler/codec/socksx/v4/Socks4ClientEncoder.java
* /opt/ws_local/PERMITS_SQL/1070968323_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-
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jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponseDecoder.java
* /opt/ws_local/PERMITS_SQL/1070968323_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-
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* /opt/ws_local/PERMITS_SQL/1070968323_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-
jar/io/netty/handler/codec/socksx/v4/AbstractSocks4Message.java
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jar/io/netty/handler/codec/socks/SocksAuthScheme.java
* /opt/ws_local/PERMITS_SQL/1070968323_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-
jar/io/netty/handler/codec/socks/SocksSubnegotiationVersion.java
*
/opt/ws_local/PERMITS_SQL/1070968323_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-
jar/io/netty/handler/codec/socks/SocksAuthStatus.java
* /opt/ws_local/PERMITS_SQL/1070968323_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-
jar/io/netty/handler/codec/socks/SocksAddressType.java
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jar/io/netty/handler/codec/socksx/v5/Socks5CommandStatus.java
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jar/io/netty/handler/codec/socks/SocksCmdStatus.java
* /opt/ws_local/PERMITS_SQL/1070968323_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-
jar/io/netty/handler/codec/socks/SocksProtocolVersion.java
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jar/io/netty/handler/codec/socksx/SocksVersion.java
* /opt/ws_local/PERMITS_SQL/1070968323_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-
jar/io/netty/handler/codec/socks/SocksResponseType.java
*
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/opt/ws\_local/PERMITS\_SQL/1070968323\_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-jar/io/netty/handler/codec/socks/SocksMessageType.java  
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\* /opt/ws\_local/PERMITS\_SQL/1070968323\_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-jar/io/netty/handler/codec/socks/SocksCmdType.java  
\* /opt/ws\_local/PERMITS\_SQL/1070968323\_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-jar/io/netty/handler/codec/socks/SocksRequestType.java  
\* /opt/ws\_local/PERMITS\_SQL/1070968323\_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthStatus.java  
\* /opt/ws\_local/PERMITS\_SQL/1070968323\_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AuthMethod.java  
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\* /opt/ws\_local/PERMITS\_SQL/1070968323\_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-jar/io/netty/handler/codec/socks/SocksAuthResponseDecoder.java  
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\* /opt/ws\_local/PERMITS\_SQL/1070968323\_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-jar/io/netty/handler/codec/socks/SocksAuthResponse.java  
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\* /opt/ws\_local/PERMITS\_SQL/1070968323\_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-jar/io/netty/handler/codec/socksx/SocksMessage.java

\* /opt/ws\_local/PERMITS\_SQL/1070968323\_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-jar/io/netty/handler/codec/socks/SocksRequest.java

\* /opt/ws\_local/PERMITS\_SQL/1070968323\_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-jar/io/netty/handler/codec/socks/SocksCmdResponse.java

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\* /opt/ws\_local/PERMITS\_SQL/1070968323\_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-jar/io/netty/handler/codec/socks/UnknownSocksRequest.java

\* /opt/ws\_local/PERMITS\_SQL/1070968323\_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-jar/io/netty/handler/codec/socks/UnknownSocksResponse.java

\* /opt/ws\_local/PERMITS\_SQL/1070968323\_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-jar/io/netty/handler/codec/socks/SocksInitResponse.java

\* /opt/ws\_local/PERMITS\_SQL/1070968323\_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponse.java

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/opt/ws\_local/PERMITS\_SQL/1070968323\_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-jar/io/netty/handler/codec/socks/SocksAuthRequest.java

\* /opt/ws\_local/PERMITS\_SQL/1070968323\_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-jar/io/netty/handler/codec/socks/SocksMessage.java

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\* /opt/ws\_local/PERMITS\_SQL/1070968323\_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequest.java

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jar/io/netty/handler/codec/socks/SocksCommonUtils.java
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/opt/ws_local/PERMITS_SQL/1070968323_1594817083.93/0/netty-codec-socks-4-1-50-final-sources-
jar/io/netty/handler/codec/socks/SocksInitRequest.java

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\* /opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/access/expression/DelegatingEvaluationContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/csrf/CookieCsrfTokenRepository.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/session/SessionInformationExpiredEvent.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/csrf/LazyCsrfTokenRepository.java  
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\* /opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/authentication/DelegatingAuthenticationEntryPoint.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/util/matcher/RequestMatcherEditor.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/util/matcher/ELRequestMatcher.java

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\* /opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/header/writers/frameoptions/XFrameOptionsHeaderWriter.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/reactive/result/method/annotation/CurrentSecurityContextArgumentResolver.java



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/opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/header/writers/StaticHeadersWriter.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/header/writers/HpkpHeaderWriter.java  
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/opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/header/writers/ClearSiteDataHeaderWriter.java  
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\* /opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/session/ConcurrentSessionFilter.java  
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/opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/util/matcher/AntPathRequestMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/authentication/logout/CookieClearingLogoutHandler.java  
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/opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/authentication/AuthenticationFilter.java  
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\* /opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/access/intercept/RequestKey.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/server/csrf/CookieServerCsrfTokenRepository.java  
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/opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/header/writers/ReferrerPolicyHeaderWriter.java

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\* /opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-

jar/org/springframework/security/web/server/context/SecurityContextServerWebExchange.java  
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 /opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-  
 jar/org/springframework/security/web/server/csrf/CsrfToken.java  
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 jar/org/springframework/security/web/server/header/CompositeServerHttpHeadersWriter.java  
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 jar/org/springframework/security/web/server/header/ContentTypeOptionsServerHttpHeadersWriter.java  
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\* /opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/server/header/XContentTypeOptionsServerHttpHeadersWriter.java

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jar/org/springframework/security/web/server/header/StrictTransportSecurityServerHttpHeadersWriter.java
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\* /opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/jackson2/PreAuthenticatedAuthenticationTokenDeserializer.java  
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/opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/server/jackson2/WebServerJackson2Module.java

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/savedrequest/SavedRequest.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/session/SimpleRedirectSessionInformationExpiredStrategy.java  
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\* /opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/access/package-info.java  
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\* /opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/authentication/preauth/websphere/WebSpherePreAuthenticatedProcessingFilter

er.java

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/opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/savedrequest/RequestCacheAwareFilter.java

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\* /opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/util/matcher/RequestHeaderRequestMatcher.java

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\* /opt/ws\_local/PERMITS\_SQL/1072987844\_1595248238.57/0/spring-security-web-5-3-3-release-sources-jar/org/springframework/security/web/util/matcher/ELRequestMatcherContext.java

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Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-
jar/org/springframework/security/web/authentication/DelegatingAuthenticationFailureHandler.java
* /opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-
jar/org/springframework/security/web/context/support/SecurityWebApplicationContextUtils.java
*
/opt/ws_local/PERMITS_SQL/1072987844_1595248238.57/0/spring-security-web-5-3-3-release-sources-
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jar/org/springframework/security/web/access/DelegatingAccessDeniedHandler.java
```

## 1.336 spring-security-core 5.3.3.RELEASE

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\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/authentication/event/AbstractAuthenticationFailureEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/access/intercept/aopalliance/MethodSecurityMetadataSourceAdvisor.java

\*

/opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/authentication/CredentialsExpiredException.java

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\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/authentication/jaas/JaasAuthenticationCallbackHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/util/MethodInvocationUtils.java

\*

/opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/core/session/SessionRegistry.java

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\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/authentication/DisabledException.java

\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/core/userdetails/memory/UserAttributeEditor.java

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\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/access/annotation/Secured.java

\*

/opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/authentication/AuthenticationTrustResolver.java

\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/authentication/AuthenticationDetailsSource.java

\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/access/AccessDeniedException.java

\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/authentication/RememberMeAuthenticationToken.java

\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/core/context/GlobalSecurityContextHolderStrategy.java

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/opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/util/FieldUtils.java

\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/access/intercept/RunAsManager.java

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\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/authentication/LockedException.java

\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/access/vote/UnanimousBased.java

\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/core/userdetails/UsernameNotFoundException.java

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/opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/access/vote/AbstractAclVoter.java

\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/access/intercept/MethodInvocationPrivilegeEvaluator.java

\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/access/event/AuthenticationCredentialsNotFoundEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/access/annotation/SecuredAnnotationSecurityMetadataSource.java

\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/core/context/SecurityContext.java

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/opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/util/SimpleMethodInvocation.java

\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/authentication/BadCredentialsException.java

\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/authentication/AnonymousAuthenticationProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/access/vote/ConsensusBased.java

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\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/core/session/SessionRegistryImpl.java

\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/authentication/rcp/RemoteAuthenticationManagerImpl.java

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\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/authentication/rcp/RemoteAuthenticationException.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/core/AuthenticationException.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/authentication/TestingAuthenticationProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/authentication/AuthenticationCredentialsNotFoundException.java  
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/opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/core/context/ThreadLocalSecurityContextHolderStrategy.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/core/session/SessionInformation.java  
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\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/authentication/event/AuthenticationFailureDisabledEvent.java  
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/opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/access/AfterInvocationProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/authentication/ProviderNotFoundException.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/authentication/AnonymousAuthenticationToken.java  
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/opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/core/context/SecurityContextHolder.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/authentication/RememberMeAuthenticationProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/access/event/LoggerListener.java  
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/opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/core/userdetails/User.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/core/context/SecurityContextHolderStrategy.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/core/userdetails/cache/EhCacheBasedUserCache.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/access/event/AuthorizedEvent.java  
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/opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/core/GrantedAuthority.java  
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\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/authentication/TestingAuthenticationToken.java  
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/opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/core/SpringSecurityMessageSource.java  
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\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/util/InMemoryResource.java  
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jar/org/springframework/security/access/vote/RoleVoter.java  
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\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/authentication/jaas/JaasGrantedAuthority.java  
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jar/org/springframework/security/authentication/jaas/JaasAuthenticationProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/authentication/jaas/JaasNameCallbackHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/authentication/AccountExpiredException.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/authentication/jaas/DefaultLoginExceptionResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/authentication/rcp/RemoteAuthenticationProvider.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/authentication/jaas/JaasAuthenticationToken.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/access/method/AbstractMethodSecurityMetadataSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/authentication/jaas/AuthorityGranter.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/authentication/event/AuthenticationFailureExpiredEvent.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-

jar/org/springframework/security/access/vote/AuthenticatedVoter.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/access/AuthorizationServiceException.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/access/ConfigAttribute.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/authentication/AbstractAuthenticationToken.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/authentication/jaas/SecurityContextLoginModule.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/authentication/jaas/event/JaasAuthenticationSuccessEvent.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/access/intercept/aopalliance/MethodSecurityInterceptor.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/authentication/event/AuthenticationFailureServiceExceptionEvent.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/core/userdetails/memory/UserAttribute.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/authentication/jaas/LoginExceptionResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/access/intercept/RunAsUserToken.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/authentication/event/AuthenticationSuccessEvent.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/access/SecurityConfig.java

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jar/org/springframework/security/crypto/bcrypt/BCryptPasswordEncoder.java

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\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/jackson2/UserMixin.java

\*

/opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/jackson2/CoreJackson2Module.java

\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/jackson2/AnonymousAuthenticationTokenMixin.java

\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/jackson2/UnmodifiableSetDeserializer.java

\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/jackson2/UnmodifiableSetMixin.java

\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/jackson2/SimpleGrantedAuthorityMixin.java

\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/jackson2/RememberMeAuthenticationTokenMixin.java

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 */
```

```
/**
 * Determines if the { @link #getAuthentication() } has permission to access the target
 * given the permission
 * @param target the target domain object to check permission on
 * @param permission the permission to check on the domain object (i.e. "read",
 * "write", etc).
 * @return true if permission
 is granted to the { @link #getAuthentication() }, else
 * false
 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/access/expression/SecurityExpressionOperations.java
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jar/org/springframework/security/authentication/ProviderManager.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/authentication/DefaultAuthenticationEventPublisher.java
*
/opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/access/expression/method/MethodSecurityEvaluationContext.java
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* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/jackson2/SecurityJackson2Modules.java
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jar/org/springframework/security/crypto/keygen/Base64StringKeyGenerator.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/provisioning/JdbcUserDetailsManager.java
*
/opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/crypto/password/Pbkdf2PasswordEncoder.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
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jar/org/springframework/security/crypto/password/MessageDigestPasswordEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/authorization/AuthorityReactiveAuthorizationManager.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/concurrent/DelegatingSecurityContextCallable.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/authentication/CachingUserDetailsService.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/core/userdetails/ReactiveUserDetailsService.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/access/prepost/PrePostAdviceReactiveMethodInterceptor.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/jackson2/UnmodifiableListMixin.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/jackson2/BadCredentialsExceptionMixin.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/access/expression/method/DefaultMethodSecurityExpressionHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/core/token/KeyBasedPersistenceTokenService.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/crypto/password/Md4PasswordEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/crypto/password/LdapShaPasswordEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/authentication/DelegatingReactiveAuthenticationManager.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/concurrent/DelegatingSecurityContextRunnable.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/scheduling/DelegatingSecurityContextTaskScheduler.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/core/Transient.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/jackson2/UnmodifiableListDeserializer.java  
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*/
/**
* Reviews the Object returned from a secure object invocation, being able to
* modify the Object or throw an {@link AccessDeniedException}.
* <p>
* Typically used to ensure the principal is permitted to access the domain object
* instance returned by a service layer bean.
* Can also be used to mutate the domain object
* instance so the principal is only able to access authorised bean properties or
* Collection elements.
* <p>
* Special consideration should be given to using an AfterInvocationManager
* on bean methods that modify a database. Typically an
* AfterInvocationManager is used with read-only methods, such as
* public DomainObject getById(id). If used with methods that modify a
* database, a transaction manager should be used to ensure any
* AccessDeniedException will cause a rollback of the changes made by the
* transaction.
* </p>
*
* @author Ben Alex
*/

```

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```

* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
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jar/org/springframework/security/crypto/factory/PasswordEncoderFactories.java
*
/opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/authentication/ReactiveAuthenticationManager.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/authorization/ReactiveAuthorizationManager.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/core/parameters/P.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/crypto/password/Md4.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/crypto/password/PasswordEncoderUtils.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/core/userdetails/ReactiveUserDetailsService.java
*
/opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/core/userdetails/MapReactiveUserDetailsService.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/authorization/AuthenticatedReactiveAuthorizationManager.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/core/AuthenticatedPrincipal.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/authorization/AuthorizationDecision.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
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```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/authentication/jaas/AbstractJaasAuthenticationProvider.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/authentication/jaas/memory/InMemoryConfiguration.java
*
/opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/authentication/jaas/DefaultJaasAuthenticationProvider.java
```

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```
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Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/context/DelegatingApplicationListener.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/access/expression/method/MethodSecurityExpressionHandler.java
*
```

/opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/core/authority/mapping/MapBasedAttributes2GrantedAuthoritiesMapper.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/task/DelegatingSecurityContextTaskExecutor.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/access/hierarchicalroles/NullRoleHierarchy.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/provisioning/InMemoryUserDetailsManager.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/access/annotation/Jsrf250Voter.java  
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/opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/access/expression/SecurityExpressionHandler.java  
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\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/access/prepost/PrePostAnnotationSecurityMetadataSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/access/PermissionCacheOptimizer.java  
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/opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/access/vote/RoleHierarchyVoter.java  
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\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/access/prepost/PostInvocationAdviceProvider.java  
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jar/org/springframework/security/core/session/SessionDestroyedEvent.java  
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jar/org/springframework/security/core/authority/mapping/Attributes2GrantedAuthoritiesMapper.java  
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jar/org/springframework/security/authentication/dao/package-info.java  
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jar/org/springframework/security/access/expression/method/ExpressionBasedPostInvocationAdvice.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/access/expression/method/PostInvocationExpressionAttribute.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-  
jar/org/springframework/security/access/intercept/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-



jar/org/springframework/security/core/authority/mapping/SimpleAuthorityMapper.java

\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-

jar/org/springframework/security/core/session/package-info.java

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jar/org/springframework/security/jackson2/UserDeserializer.java

\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-

jar/org/springframework/security/jackson2/UsernamePasswordAuthenticationTokenDeserializer.java

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jar/org/springframework/security/access/expression/method/ExpressionBasedPreInvocationAdvice.java

\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-

```
jar/org/springframework/security/authentication/ReactiveAuthenticationManagerAdapter.java
*
/opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/converter/RsaKeyConverters.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/access/hierarchicalroles/RoleHierarchyImpl.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/authentication/event/LogoutSuccessEvent.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/authentication/AuthenticationManagerResolver.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/crypto/scrypt/SCryptPasswordEncoder.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/authentication/ReactiveAuthenticationManagerResolver.java
*
/opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/authentication/AbstractUserDetailsReactiveAuthenticationManager.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/core/userdetails/UserDetailsPasswordService.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/core/token/SecureRandomFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/crypto/argon2/Argon2EncodingUtils.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/crypto/argon2/Argon2PasswordEncoder.java
*
/opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/authentication/UserDetailsRepositoryReactiveAuthenticationManager.java
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/core/annotation/CurrentSecurityContext.java
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\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/core/parameters/AnnotationParameterNameDiscoverer.java

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/\*\*

\*

\* @param authentication represents the user in question. Should not be null.

\* @param targetDomainObject the domain object for which permissions should be

\* checked. May be null in which case implementations should return false, as the null

\* condition can be checked explicitly in the expression.

\* @param permission a representation of the permission object as supplied by the

\* expression system. Not null.

\* @return true if the permission is granted, false otherwise

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/access/PermissionEvaluator.java

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- \* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/crypto/encrypt/CipherUtils.java
- \* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/crypto/keygen/StringKeyGenerator.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/crypto/encrypt/BouncyCastleAesGcmBytesEncryptor.java
- \* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/crypto/encrypt/TextEncryptor.java
- \* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/crypto/encrypt/BouncyCastleAesCbcBytesEncryptor.java
- \* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/crypto/keygen/SecureRandomBytesKeyGenerator.java
- \* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/crypto/password/StandardPasswordEncoder.java
- \* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/crypto/encrypt/AesBytesEncryptor.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/crypto/password/PasswordEncoder.java
- \* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/crypto/util/EncodingUtils.java
- \* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/crypto/keygen/SharedKeyGenerator.java
- \* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/crypto/password/NoOpPasswordEncoder.java
- \* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/crypto/keygen/BytesKeyGenerator.java
- \* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/crypto/encrypt/BytesEncryptor.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/crypto/keygen/KeyGenerators.java
- \* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/crypto/encrypt/HexEncodingTextEncryptor.java
- \* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/crypto/encrypt/BouncyCastleAesBytesEncryptor.java
- \* /opt/ws\_local/PERMITS\_SQL/1072987865\_1595248246.81/0/spring-security-core-5-3-3-release-sources-jar/org/springframework/security/crypto/keygen/HexEncodingStringKeyGenerator.java

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 */
/**
 * A token issued by { @link TokenService }.
 *
 * <p>
 * It is important that the keys assigned to tokens are sufficiently randomised and
 * secured that they can serve as identifying a unique user session. Implementations of
 * { @link TokenService } are free to use encryption or encoding strategies of their
 * choice.
 * It is strongly recommended that keys are of sufficient length to balance safety against
 * persistence cost. In relation to persistence cost, it is strongly recommended that
 * returned keys are small enough for encoding in a cookie.
 * </p>
 *
 * @author Ben Alex
 * @since 2.0.1
 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/core/token/Token.java
```

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*/
/**
* Base64 encoder which is a reduced version of Robert Harder's public domain
* implementation (version 2.3.7). See <a
* href="http://iharder.sourceforge.net/current/java/base64/">http://iharder.sourceforge.net/current/java/base64/</a>
* for more information.
* <p>
* For internal use only.
*
* @author
* Luke Taylor
* @since 3.0
* @deprecated Use java.util.Base64
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1072987865_1595248246.81/0/spring-security-core-5-3-3-release-sources-
jar/org/springframework/security/crypto/codec/Base64.java
```

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# 1.338 spring-data-keyvalue 2.3.1.RELEASE

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Spring Data KeyValue 2.3.1

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## 1.339 jackson-module-afterburner 2.11.0

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- \* <p>
- \* Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
- \* consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
- \* effective key bits) used in the authenticator.
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- \* href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled</a> C implementation
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\* SPHINCS-256 signer.

\* <p>

\* This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being the digests used

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\* detached signatures.

\* </p>

\* <p>

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\* /opt/cola/permits/1073667234\_1609801741.08/0/bcprov-jdk15to18-1-66-sources-jar/org/bouncycastle/pqc/crypto/sphincs/SPHINCS256Signer.java

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```
/**
 * Magic value for proprietary OpenSSH private key.
 **/
```

Found in path(s):

```
* /opt/cola/permits/1073667234_1609801741.08/0/bcprov-jdk15to18-1-66-sources-
jar/org/bouncycastle/crypto/util/OpenSSHPrivateKeyUtil.java
```

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```
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 */
```

Found in path(s):

```
* /opt/cola/permits/1073667234_1609801741.08/0/bcprov-jdk15to18-1-66-sources-
jar/org/bouncycastle/pqc/math/ntru/euclid/test/IntEuclideanTest.java
```

## 1.342 guava 29.0-android

### 1.342.1 Available under license :

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ServiceManagerBridge.java

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ForwardingBlockingDeque.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ForwardingNavigableSet.java

\*

/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/DescendingImmutableSortedSet.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/AllEqualOrdering.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/TreeTraverser.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-

jar/com/google/common/collect/ForwardingImmutableSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/SortedMultisetBridge.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/FilteredEntryMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/ForwardingImmutableMap.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/TransformedListIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/ForwardingDeque.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/FilteredKeyListMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/UnmodifiableSortedMultiset.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/CompactHashMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/CompactLinkedHashMap.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/TreeRangeMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/FilteredKeySetMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/TransformedIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/AbstractNavigableMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/FilteredMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/EvictingQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/ForwardingNavigableMap.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/AbstractMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/RangeMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/RegularImmutableAsList.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/ForwardingImmutableList.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/ImmutableEnumMap.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/FilteredEntrySetMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/FilteredSetMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/DescendingMultiset.java  
\*

/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/CompactHashSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/CompactLinkedHashSet.java

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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Verify.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/HashingInputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/VerifyException.java  
\*

/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/CharSequenceReader.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/Runnables.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/AbstractTable.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/FilteredMultimapValues.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/eventbus/SubscriberExceptionContext.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/eventbus/SubscriberExceptionHandler.java



\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Utf8.java

\*

/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/reflect/TypeVisitor.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java

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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/html/HtmlEscapers.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Splitter.java

\*

/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/ByteArrayDataInput.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/Service.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/MapMakerInternalMap.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/DenseImmutableTable.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/AbstractIdleService.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/primitives/SignedBytes.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java

\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/reflect/TypeResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/LineProcessor.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/ByteArrayDataOutput.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/MapMaker.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/SettableFuture.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/net/HostSpecifier.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/annotations/GwtCompatible.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/net/UrlEscapers.java  
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/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/cache/CacheBuilder.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/SparseImmutableTable.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/annotations/GwtIncompatible.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/net/InternetDomainName.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/escape/Escapers.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ForwardingFuture.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/cache/ReferenceEntry.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ForwardingFluentFuture.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Cut.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/escape/ArrayBasedEscaperMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/cache/LocalCache.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Platform.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-

jar/com/google/common/primitives/UnsignedBytes.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/io/ByteProcessor.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/RegularImmutableTable.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/Callables.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/JdkFutureAdapters.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/AbstractService.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/escape/ArrayBasedCharEscaper.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/escape/Platform.java  
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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/graph/PredecessorsFunction.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/graph/MutableGraph.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/graph/SuccessorsFunction.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/graph/MutableNetwork.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/TopKSelector.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/graph/Network.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/ImmutableGraph.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/Graphs.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/ImmutableNetwork.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/Graph.java

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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/GwtTransient.java

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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-

```
jar/com/google/common/base/JdkPattern.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/CommonMatcher.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/PatternCompiler.java
*
/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/CommonPattern.java
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\*/

/\*\*

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

\*/

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/primitives/ShortsMethodsForWeb.java
```

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ExecutionSequencer.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/ImmutableSupplier.java

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\* This method was rewritten in Java from an intermediate step of the Murmur hash function in

\* <http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp>, which contained the

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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Hashing.java

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\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Throwables.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/LineReader.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/DirectExecutor.java

\*

/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/HashBiMap.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Objects.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ListenableFuture.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/eventbus/EventBus.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Supplier.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Suppliers.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/eventbus/AllowConcurrentEvents.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/LittleEndianDataInputStream.java

\*

/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/AbstractFuture.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/LineBuffer.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/LittleEndianDataOutputStream.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/FinalizableReferenceQueue.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/FinalizableReference.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/eventbus/DeadEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/Resources.java

\*

/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/primitives/Primitives.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-

jar/com/google/common/base/Function.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/base/AbstractIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/io/CharStreams.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/base/Predicate.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/base/Preconditions.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/base/Charsets.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/Interners.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/io/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/eventbus/AsyncEventBus.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/base/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/base/FinalizableSoftReference.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/io/CountingInputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/io/CountingOutputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/io/Files.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/base/Functions.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/eventbus/Subscribe.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/io/Closeables.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/io/MultiInputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/base/FinalizablePhantomReference.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/io/Flushables.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/eventbus/package-info.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/ExecutionList.java



\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/EnumMultiset.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Predicates.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/ByteStreams.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Defaults.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/FinalizableWeakReference.java

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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/annotations/VisibleForTesting.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/AggregateFuture.java

\*

/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/FluentFuture.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/escape/CharEscaperBuilder.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/TimeoutFuture.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/AppendableWriter.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/CollectionFuture.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-

```
jar/com/google/common/util/concurrent/FuturesGetChecked.java
*
/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/Futures.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/reflect/TypeToken.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/AbstractTransformFuture.java
*
```

```
/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/CaseFormat.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/io/PatternFilenameFilter.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/escape/CharEscaper.java
```

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

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/ExtraObjectsMethodsForWeb.java

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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/SortedMultiset.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/SortedMultisets.java

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/\*\*

\* Outer class that exists solely to let us write { @code Partially.GwtIncompatible } instead of plain

\* { @code GwtIncompatible }. This is more accurate for { @link Futures#catching }, which is available

\* under GWT but with a slightly different signature.

\*

\* <p>We can't use { @code PartiallyGwtIncompatible } because then the GWT compiler

wouldn't recognize

\* it as a { @code GwtIncompatible } annotation. And for { @code Futures.catching }, we need the GWT  
\* compiler to autostrip the normal server method in order to expose the special, inherited GWT  
\* version.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/Partially.java

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\* <http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp>, which contained the

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Found in path(s):

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jar/com/google/common/base/SmallCharMatcher.java

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/graph/package-info.java

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jar/com/google/common/hash/package-info.java

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- \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/AsyncCallable.java
- \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ConsumingQueueIterator.java
- \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/ReaderInputStream.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/CombinedFuture.java
- \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/InterruptibleTask.java
- \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/LittleEndianByteArray.java
- \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/FarmHashFingerprint64.java
- \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/Platform.java
- \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/AggregateFutureState.java
- \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/MacHashFunction.java

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Found in path(s):

- \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/MultimapBuilder.java

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/cache/CacheStats.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/hash/BloomFilter.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/primitives/ParseRequest.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/math/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/RegularContiguousSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/hash/Crc32cHashFunction.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/hash/Hashing.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/cache/ForwardingCache.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/AbstractScheduledService.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/AsyncFunction.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/cache/RemovalNotification.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/hash/HashCode.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/base/PairwiseEquivalence.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/hash/AbstractCompositeHashFunction.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/cache/AbstractCache.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/cache/AbstractLoadingCache.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-

```

jar/com/google/common/net/HostAndPort.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
*
/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/WrappingExecutorService.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/Present.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/Enums.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/ForwardingExecutorService.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/Ticker.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/cache/RemovalListener.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/cache/CacheBuilderSpec.java
*
/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/hash/PrimitiveSink.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/TreeRangeSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/reflect/Types.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/cache/Weigher.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/AbstractSortedMultiset.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/cache/RemovalCause.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/math/DoubleUtils.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/RegularImmutableMultiset.java
*
/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/net/MediaType.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/net/HttpHeaders.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/hash/AbstractStreamingHasher.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/hash/Funnels.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/BoundType.java

```



\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Optional.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/Funnel.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/math/LongMath.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/Hasher.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/math/MathPreconditions.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/MessageDigestHashFunction.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/cache/package-info.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/cache/LoadingCache.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/math/IntMath.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/HashFunction.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ExecutionError.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/primitives/UnsignedLongs.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/cache/ForwardingLoadingCache.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/primitives/UnsignedInts.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/math/DoubleMath.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/DescendingImmutableSortedMultiset.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/reflect/TypeParameter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Queues.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/cache/RemovalListeners.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-

```
jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/UncheckedExecutionException.java
*
/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/primitives/UnsignedInteger.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/FutureCallback.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/hash/HashingOutputStream.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/math/BigIntegerMath.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/hash/AbstractHasher.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/Absent.java
*
/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/primitives/UnsignedLong.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/EmptyContiguousSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/hash/BloomFilterStrategies.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/cache/CacheLoader.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/Uninterruptibles.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/cache/Cache.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/AtomicLongMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/FunctionalEquivalence.java
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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/AbstractSequentialIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/UnmodifiableListIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/ForwardingListMultimap.java  
\*

/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/RowSortedTable.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/ForwardingSetMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/ForwardingSortedSetMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/SortedMapDifference.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/ForwardingImmutableCollection.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/MinMaxPriorityQueue.java

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\*/

/\*\*

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

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-

jar/com/google/common/primitives/DoublesMethodsForWeb.java  
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Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ImmutableSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ImmutableClassToInstanceMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
*
/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/SingletonImmutableTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/EmptyImmutableSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ImmutableAsList.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ComparisonChain.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ImmutableTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ImmutableSortedMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ImmutableEnumSet.java
*
/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/RegularImmutableSortedSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ArrayTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ForwardingTable.java
```

```
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ComputationException.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/DiscreteDomain.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/RegularImmutableList.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/AbstractIndexedListIterator.java
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```
*/
```

```
/**
```

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

```
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/primitives/FloatsMethodsForWeb.java
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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableMapKeySet.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Platform.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/TreeBasedTable.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableEntry.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableCollection.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/EmptyImmutableListMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Tables.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Table.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableSortedSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableBiMap.java  
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/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Collections2.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Range.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/UnmodifiableIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableListMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/StandardRowSortedTable.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/HashBasedTable.java  
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/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableMapValues.java

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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/CollectPreconditions.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/RegularImmutableMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/PeekingIterator.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ImmutableMultiset.java
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*
/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/RegularImmutableBiMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ImmutableMapEntrySet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/StandardTable.java
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```
/**
```

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

```
*/
```

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```
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
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jar/com/google/common/base/Ascii.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/Atomics.java  
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jar/com/google/common/base/Equivalence.java  
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jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/ContiguousSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/SortedLists.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/annotations/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/annotations/Beta.java  
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/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/Monitor.java  
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jar/com/google/common/net/package-info.java  
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jar/com/google/common/util/concurrent/ListeningExecutorService.java  
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jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java  
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jar/com/google/common/primitives/package-info.java

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jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java  
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jar/com/google/common/eventbus/SubscriberRegistry.java  
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jar/com/google/common/util/concurrent/ListenableFutureTask.java

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jar/com/google/common/primitives/ImmutableIntArray.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/primitives/ImmutableDoubleArray.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ForwardingLock.java

\*

/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/AbstractHashFunction.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ForwardingCondition.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/primitives/ImmutableLongArray.java

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\* This following method is a modified version of one found in

\* <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30>

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\* Other contributors include Andrew Wright, Jeffrey Hayes, Pat Fisher, Mike Judd.

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/MoreExecutors.java

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```
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/hash/LongAdder.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/hash/Striped64.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/cache/Striped64.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/cache/LongAdder.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/AtomicDoubleArray.java
```

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```
*/
```

```
/**
```

```
* Returns an array containing all of the elements in the specified collection. This method
```

```
* returns the elements in the order they are returned by the collection's iterator. The returned
```

```
* array is "safe" in that no references to it are maintained by the collection. The caller is
```

```
* thus free to modify the returned
```

```
array.
```

```
*
```

```
* <p>This method assumes that the collection size doesn't change while the method is running.
```

```
*
```

```
* <p>TODO(kevinb): support concurrently modified collections?
```

```
*
```

```
* @param c the collection for which to return an array of elements
```

```
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ObjectArrays.java
```

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```

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

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java

```

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```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-

```



```

jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/StandardMutableValueGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java
*
/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/DirectedNetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/MapRetrievalCache.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/UndirectedNetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/EdgesConnecting.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/StandardNetwork.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/AbstractGraph.java
*
/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/GraphConstants.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/ValueGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/ValueGraphBuilder.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/AbstractValueGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/ElementOrder.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/ForwardingNetwork.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
*
/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/StandardValueGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/GraphBuilder.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/DirectedGraphConnections.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/EndpointPairIterator.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/StandardMutableGraph.java

```

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/StandardMutableNetwork.java

\*

/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/AbstractNetwork.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/ForwardingGraph.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/NetworkConnections.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/MutableValueGraph.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/MapIteratorCache.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/EndpointPair.java

\*

/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/ForwardingValueGraph.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/ImmutableValueGraph.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Comparators.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/AbstractGraphBuilder.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/MultiEdgesConnecting.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/RangeGwtSerializationDependencies.java

\*

/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/UndirectedGraphConnections.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/GraphConnections.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/NetworkBuilder.java

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jar/com/google/common/util/concurrent/IgnoreJRERRequirement.java  
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jar/com/google/common/collect/GeneralRange.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/SortedIterables.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/RangeSet.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/AbstractRangeSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/Count.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/ImmutableSortedMultiset.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/ForwardingSortedMultiset.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/RegularImmutableSortedMultiset.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/SortedIterable.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/BaseGraph.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/Traverser.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ObjectCountLinkedHashMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/AbstractBaseGraph.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/CompactHashing.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/IncidentEdgeSet.java

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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/IndexedImmutableSet.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/BaseImmutableMultimap.java

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

\* `java.util.HashMap`

class.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/Striped.java

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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ForwardingSortedMap.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Ordering.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/MutableClassToInstanceMap.java

\*

/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ExplicitOrdering.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ClassToInstanceMap.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Multiset.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Interner.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/LinkedHashMultimap.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Sets.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/AbstractMapBasedMultiset.java

\*

/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ForwardingSortedSet.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ForwardingMultimap.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ForwardingObject.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/AbstractBiMap.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/HashMultiset.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/UsingToStringOrdering.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ForwardingSet.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/RegularImmutableSet.java

\*

/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/NaturalOrdering.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Multimap.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-

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jar/com/google/common/collect/AbstractSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/SingletonImmutableSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/Multisets.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ForwardingMapEntry.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ForwardingListIterator.java
*
/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ImmutableList.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/NullsFirstOrdering.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/LexicographicalOrdering.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/NullsLastOrdering.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ArrayListMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/LinkedListMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ForwardingConcurrentMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/EnumHashBiMap.java
*
/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/AbstractSortedSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/AbstractMapBasedMultimap.java
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jar/com/google/common/collect/CompoundOrdering.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ForwardingMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ForwardingMultiset.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/TreeMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/LinkedHashMultiset.java
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/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/SortedSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/Iterators.java

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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/AbstractListMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/SetMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/BiMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ForwardingIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ForwardingList.java  
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/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/EnumBiMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Synchronized.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ReverseOrdering.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/TreeMultiset.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/MapDifference.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ForwardingQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Lists.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/AbstractMultiset.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Iterables.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ByFunctionOrdering.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ListMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Maps.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Multimaps.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ComparatorOrdering.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/HashMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ForwardingCollection.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-

jar/com/google/common/collect/ReverseNaturalOrdering.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/ImmutableSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/AbstractIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/AbstractMapEntry.java

## 1.343 byte-buddy 1.9.4

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jar/net/bytebuddy/jar/asm/package.html

\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-

jar/net/bytebuddy/jar/asm/signature/package.html

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jar/net/bytebuddy/jar/asm/signature/SignatureWriter.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
jar/net/bytebuddy/jar/asm/Constants.java
*
/opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
jar/net/bytebuddy/jar/asm/ByteVector.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
jar/net/bytebuddy/jar/asm/Edge.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
jar/net/bytebuddy/jar/asm/Frame.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
jar/net/bytebuddy/jar/asm/signature/SignatureReader.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
jar/net/bytebuddy/jar/asm/MethodTooLargeException.java
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jar/net/bytebuddy/jar/asm/TypeReference.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
jar/net/bytebuddy/jar/asm/signature/SignatureVisitor.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
jar/net/bytebuddy/jar/asm/Type.java
*
/opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
jar/net/bytebuddy/jar/asm/ModuleWriter.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
jar/net/bytebuddy/jar/asm/CurrentFrame.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
jar/net/bytebuddy/jar/asm/Opcodes.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
jar/net/bytebuddy/jar/asm/MethodVisitor.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
jar/net/bytebuddy/jar/asm/ClassWriter.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
jar/net/bytebuddy/jar/asm/ModuleVisitor.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
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jar/net/bytebuddy/jar/asm/AnnotationVisitor.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
jar/net/bytebuddy/jar/asm/ClassVisitor.java
*
/opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
jar/net/bytebuddy/jar/asm/MethodWriter.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
jar/net/bytebuddy/jar/asm/FieldVisitor.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
jar/net/bytebuddy/jar/asm/Attribute.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
jar/net/bytebuddy/jar/asm/SymbolTable.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
jar/net/bytebuddy/jar/asm/FieldWriter.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
jar/net/bytebuddy/jar/asm/ConstantDynamic.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
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* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
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*
/opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
jar/net/bytebuddy/jar/asm/ClassTooLargeException.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
jar/net/bytebuddy/jar/asm/TypePath.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
jar/net/bytebuddy/jar/asm/Handler.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
jar/net/bytebuddy/jar/asm/Context.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
jar/net/bytebuddy/jar/asm/Label.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
jar/net/bytebuddy/jar/asm/Symbol.java
* /opt/ws_local/PERMITS_SQL/1074307545_1595728037.67/0/byte-buddy-1-9-4-sources-
jar/net/bytebuddy/jar/asm/Handle.java
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- \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/HasSuperTypeMatcher.java
- \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/build/Plugin.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/DeclaringAnnotationMatcher.java
- \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/assign/primitive/VoidAwareAssigner.java
- \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/attribute/FieldAttributeAppender.java
- \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/modifier/MethodStrictness.java
- \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/scaffold/subclass/ConstructorStrategy.java
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- \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/type/package-info.java
- \*
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- \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/auxiliary/AuxiliaryType.java
- \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/field/FieldList.java
- \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/ClassFileLocator.java
- \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bind/annotation/Empty.java
- \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/scaffold/inline/MethodNameTransformer.java
- \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/modifier/SynchronizationState.java
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- /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/NullMatcher.java
- \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/scaffold/inline/MethodRebaseResolver.java
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 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
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 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/MethodAccessorFactory.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/bytecode/constant/LongConstant.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/dynamic/TypeResolutionStrategy.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/description/annotation/AnnotationValue.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/build/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/description/modifier/SyntheticState.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/utility/visitor/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/dynamic/loading/ClassLoadingStrategy.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/ToStringMethod.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/InvocationHandlerAdapter.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/matcher/CollectionErasureMatcher.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/bind/MethodDelegationBinder.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/attribute/MethodAttributeAppender.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/bytecode/assign/primitive/PrimitiveBoxingDelegate.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/ExceptionMethod.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/dynamic/loading/ClassInjector.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/matcher/MethodParameterTypesMatcher.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/description/modifier/ParameterManifestation.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/description/modifier/MethodManifestation.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/matcher/SuperTypeMatcher.java

\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/bind/annotation/SuperMethod.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/dynamic/scaffold/InstrumentedType.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/Implementation.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/matcher/CollectionSizeMatcher.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/description/type/TypeDefinition.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/dynamic/scaffold/TypeInitializer.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/dynamic/scaffold/inline/InliningImplementationMatcher.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/bind/annotation/BindingPriority.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/bind/annotation/DefaultMethod.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/dynamic/loading/ClassReloadingStrategy.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/description/modifier/Visibility.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/dynamic/loading/InjectionClassLoader.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/dynamic/scaffold/ClassWriterStrategy.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/bind/annotation/Pipe.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/bytecode/Removal.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/bytecode/member/HandleInvocation.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/build/BuildLogger.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/matcher/ModifierMatcher.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/description/TypeVariableSource.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/bytecode/StackSize.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/description/enumeration/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/description/annotation/AnnotationList.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-

jar/net/bytebuddy/implementation/bytecode/member/MethodInvocation.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/build/HashCodeAndEqualsPlugin.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/package-info.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/dynamic/scaffold/inline/RebaseDynamicTypeBuilder.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/asm/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/dynamic/scaffold/subclass/SubclassImplementationTarget.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/asm/MemberSubstitution.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/description/method/MethodDescription.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/auxiliary/TrivialType.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/matcher/InheritedAnnotationMatcher.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/build/ToStringPlugin.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/dynamic/scaffold/FieldRegistry.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/description/NamedElement.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/bind/annotation/SuperCall.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/NamingStrategy.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/auxiliary/PrivilegedMemberLookupAction.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/matcher/AccessibilityMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/agent/builder/package-info.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/utility/StreamDrainer.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/FixedValue.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/matcher/LatentMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/bytecode/assign/primitive/PrimitiveTypeAwareAssigner.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/matcher/NegatingMatcher.java



\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/asm/TypeReferenceAdjustment.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/description/type/PackageDescription.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/dynamic/loading/NoOpClassFileTransformer.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/HashCodeMethod.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/dynamic/NexusAccessor.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/description/field/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/matcher/SignatureTokenMatcher.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/dynamic/scaffold/subclass/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/bind/ParameterLengthResolver.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/bytecode/assign/InstanceCheck.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/pool/TypePool.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/dynamic/loading/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/utility/JavaConstant.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/matcher/BooleanMatcher.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/description/DeclaredByType.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/matcher/MethodExceptionTypeMatcher.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/agent/builder/AgentBuilder.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/description/modifier/ModifierContributor.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/utility/JavaType.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/utility/CompoundList.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/bytecode/assign/primitive/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/matcher/VisibilityMatcher.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-

jar/net/bytebuddy/implementation/bind/annotation/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/matcher/PrimitiveTypeMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/bytecode/assign/reference/package-info.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/dynamic/DynamicType.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/bind/annotation/RuntimeType.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/utility/privilege/SetAccessibleAction.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/attribute/TypeAttributeAppender.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/dynamic/scaffold/inline/RedefinitionDynamicTypeBuilder.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/dynamic/loading/MultipleParentClassLoader.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/description/ByteCodeElement.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/utility/visitor/StackAwareMethodVisitor.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/dynamic/scaffold/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/dynamic/scaffold/subclass/SubclassDynamicTypeBuilder.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/bind/ArgumentTypeResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/description/method/MethodList.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/bytecode/member/FieldAccess.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/LoadedTypeInitializer.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/bind/MethodNameEqualityResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/TypeCache.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/matcher/DefinedShapeMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/matcher/ElementMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/asm/TypeConstantAdjustment.java

\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/scaffold/TypeValidation.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/ArrayTypeMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/assign/primitive/PrimitiveUnboxingDelegate.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/asm/Advice.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/loading/ByteArrayClassLoader.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/member/MethodVariableAccess.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/build/CachedReturnPlugin.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/NameMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bind/annotation/Default.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/StringMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/modifier/Ownership.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/collection/CollectionFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/method/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/collection/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/MethodSortMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/scaffold/MethodGraph.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bind/annotation/TargetMethodAnnotationDrivenBinder.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/agent/builder/LambdaFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bind/annotation/Morph.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/loading/PackageDefinitionStrategy.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bind/annotation/Super.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/TargetType.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-

jar/net/bytebuddy/asm/ModifierAdjustment.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/EqualsMethod.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/auxiliary/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/MethodDelegation.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/dynamic/scaffold/inline/RebaseImplementationTarget.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/matcher/TypeSortMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/bytecode/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/bind/annotation/Origin.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/attribute/AnnotationRetention.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/bytecode/constant/IntegerConstant.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/dynamic/scaffold/inline/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/dynamic/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/description/annotation/AnnotationDescription.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/matcher/FailSafeMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/dynamic/scaffold/inline/DecoratingDynamicTypeBuilder.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/dynamic/scaffold/inline/AbstractInliningDynamicTypeBuilder.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/description/type/TypeDescription.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/matcher/MethodParametersMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/bytecode/constant/FieldConstant.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/matcher/ErasureMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/bytecode/Addition.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/asm/MemberRemoval.java  
\*

/opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/auxiliary/TypeProxy.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bind/annotation/AllArguments.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/agent/builder/ResettableClassFileTransformer.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/ByteBuddy.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/utility/JavaModule.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/CollectionElementMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/build/EntryPoint.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/constant/TextConstant.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/Multiplication.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/modifier/EnumerationState.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/DescriptorMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/FieldTypeMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/method/ParameterList.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/TypeCreation.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/DeclaringTypeMatcher.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/constant/JavaConstantValue.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/attribute/AnnotationAppender.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/FilterableList.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/attribute/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/type/TypeVariableToken.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/StubMethod.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/constant/NullConstant.java

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/opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/MethodOverrideMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/Throw.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/annotation/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/scaffold/TypeWriter.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/scaffold/MethodRegistry.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/constant/DefaultValue.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/MethodParameterTypeMatcher.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/utility/RandomString.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/ClassFileVersion.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/assign/primitive/PrimitiveWideningDelegate.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/StackManipulation.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/scaffold/FieldLocator.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bind/DeclaringTypeResolver.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/collection/ArrayFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/collection/ArrayAccess.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/EqualityMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/ClassLoaderHierarchyMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/attribute/AnnotationValueFilter.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/pool/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/assign/reference/ReferenceTypeAwareAssigner.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/DeclaringMethodMatcher.java

\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/bind/annotation/FieldProxy.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/bind/annotation/This.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/description/modifier/MethodArguments.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/matcher/MethodReturnTypeMatcher.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/bytecode/constant/SerializedConstant.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/FieldAccessor.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/matcher/CollectionOneToOneMatcher.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/description/modifier/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/InvokeDynamic.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/bytecode/member/MethodReturn.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/bytecode/constant/MethodConstant.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/description/ModifierReviewable.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/description/type/TypeList.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/bytecode/member/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/description/enumeration/EnumerationDescription.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/auxiliary/MethodCallProxy.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/description/modifier/FieldManifestation.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/matcher/AnnotationTypeMatcher.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/bind/annotation/Argument.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/SuperMethodCall.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/implementation/DefaultMethodCall.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
 jar/net/bytebuddy/utility/package-info.java  
 \* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-

jar/net/bytebuddy/description/method/ParameterDescription.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/bytecode/Duplication.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/matcher/ClassLoaderParentMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/asm/AsmVisitorWrapper.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/utility/visitor/MetadataAwareClassVisitor.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/bytecode/assign/Assigner.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/bytecode/assign/TypeCasting.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/bytecode/constant/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/utility/OpenedClassReader.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/matcher/InstanceTypeMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/description/modifier/ProvisioningState.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/matcher/ElementMatchers.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/bind/annotation/StubValue.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/description/modifier/TypeManifestation.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/bind/annotation/DefaultCall.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/bind/annotation/IgnoreForBinding.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/bind/annotation/FieldValue.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/description/annotation/AnnotationSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/matcher/IsNamedMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/implementation/bytecode/constant/DoubleConstant.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/matcher/DeclaringFieldMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/utility/privilege/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-  
jar/net/bytebuddy/dynamic/Transformer.java



\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/constant/ClassConstant.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/assign/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/dynamic/Nexus.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/field/FieldDescription.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/implementation/bytecode/constant/FloatConstant.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/CachingMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/utility/privilege/GetSystemPropertyAction.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/matcher/CollectionItemMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/net/bytebuddy/description/modifier/FieldPersistence.java  
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\* /opt/ws\_local/PERMITS\_SQL/1074307545\_1595728037.67/0/byte-buddy-1-9-4-sources-jar/META-INF/MANIFEST.MF

## 1.344 perl 5.28.1-6+deb10u1

## 1.345 reactor-extra 3.3.3.RELEASE

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- \* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/retry/AbstractRetry.java
- \* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/retry/DefaultContext.java
- \* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/retry/BackoffDelay.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/retry/RepeatContext.java
- \* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/retry/Backoff.java
- \* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/retry/IterationContext.java
- \* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/retry/DefaultRepeat.java
- \* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/retry/RetryExhaustedException.java
- \* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/math/MathFlux.java
- \* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/retry/Repeat.java
- \* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/retry/Jitter.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/retry/DefaultRetry.java
- \* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/retry/RetryContext.java
- \* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/retry/Retry.java

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- \* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/scheduler/clock/SchedulerClock.java
- \* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Consumer5.java
- \* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/math/MonoMinMax.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Function3.java
- \* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/scheduler/forkjoin/ForkJoinPoolScheduler.java
- \* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Predicate7.java
- \* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/math/MonoSumFloat.java
- \* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Function8.java
- \* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Predicate4.java
- \* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Predicate3.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Function5.java
- \* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/cache/CacheFlux.java
- \* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Consumer4.java
- \* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/math/MonoSumDouble.java
- \* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Predicate5.java
- \* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Consumer7.java
- \* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/math/MonoAverageDouble.java
- \* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Predicate8.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/swing/SwingScheduler.java

\* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/cache/CacheMono.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Function4.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Consumer6.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Function7.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/math/MonoAverageFloat.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/math/MonoSumLong.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/swing/SwtScheduler.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/math/MonoFromFluxOperator.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Consumer3.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Predicate6.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/math/MonoSumInt.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/math/MathSubscriber.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Consumer8.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/function/Function6.java

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\* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/extra/processor/RingBuffer.java

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\* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/math/MonoAverageBigDecimal.java

\* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/extra/processor/WorkQueueProcessor.java

\*  
/opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/math/MonoSumBigInteger.java

\* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/extra/processor/TopicProcessor.java

\* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-jar/reactor/extra/processor/EventLoopProcessor.java

\* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-

jar/reactor/math/MonoSumBigDecimal.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-  
jar/reactor/extra/processor/WaitStrategy.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-  
jar/reactor/math/MonoAverageBigInteger.java  
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jar/reactor/function/TupleUtils.java  
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\* /opt/ws\_local/PERMITS\_SQL/1077482473\_1596857753.28/0/reactor-extra-3-3-3-release-sources-  
jar/reactor/bool/BooleanUtils.java

# 1.346 logstash-logback-encoder 6.4

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```
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/composite/loggingevent/RawMessageJsonProvider.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/encoder/CompositeJsonEncoder.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/composite/accessevent/HeaderFilter.java
*
/opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/decorate/cbor/CborJsonFactoryDecorator.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/composite/FieldNamesAware.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/composite/accessevent/AccessEventNestedJsonProvider.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/decorate/PrettyPrintingJsonGeneratorDecorator.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/layout/LogstashAccessLayout.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/appender/LogstashUdpSocketAppender.java
*
/opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/appender/listener/LoggingEventTcpAppenderListenerImpl.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/fieldnames/LogstashCommonFieldNames.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/composite/loggingevent/LogLevelJsonProvider.java
```

\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/decorate/FeatureJsonGeneratorDecorator.java

\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/pattern/AbstractJsonPatternParser.java

\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/AbstractNestedJsonProvider.java

\*

/opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/loggingevent/LogstashMarkersJsonProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/loggingevent/MdcJsonProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/mask/RegexValueMasker.java

\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/loggingevent/LoggingEventFormattedTimestampJsonProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/loggingevent/LoggingEventJsonProviders.java

\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/marker/MessageFormatCache.java

\*

/opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/LogstashFormatter.java

\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/loggingevent/RootStackTraceElementJsonProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/loggingevent/StackTraceJsonProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/argument/DeferredStructuredArgument.java

\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/accessevent/RemoteHostJsonProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/accessevent/ResponseHeadersJsonProvider.java

\*

/opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/stacktrace/StackElementFilter.java

\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appender/LogstashSocketAppender.java

\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/accessevent/RequestedUrlJsonProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/mask/MaskingJsonGeneratorDecorator.java

\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appender/destination/DelegateDestinationConnectionStrategy.java

\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appender/destination/RandomDestinationConnectionStrategy.java

\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/loggingevent/LoggingEventPatternJsonProvider.java

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/opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/AbstractPatternJsonProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/encoder/LogstashEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/accessevent/RemoteUserJsonProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/loggingevent/LoggingEventNestedJsonProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appender/LogstashAccessTcpSocketAppender.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/mask/FieldNameBasedFieldMasker.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/loggingevent/LoggerNameJsonProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/pattern/ValueGetter.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appender/NotConnectedException.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appender/destination/RoundRobinDestinationConnectionStrategy.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/decorate/CharacterEscapesJsonFactoryDecorator.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appender/WaitStrategyFactory.java  
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/opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/status/LevelFilteringStatusListener.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/pattern/NodeWriter.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appender/listener/AppenderListener.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/decorate/JsonFactoryDecorator.java  
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\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/argument/StructuredArguments.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/accessevent/ProtocolJsonProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/loggingevent/JsonMessageJsonProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/loggingevent/ThreadNameJsonProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appender/destination/DestinationConnectionStrategy.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-

jar/net/logstash/logback/composite/FormattedTimestampJsonProvider.java  
 \* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
 jar/net/logstash/logback/composite/accessevent/ContentLengthJsonProvider.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
 jar/net/logstash/logback/decorate/FeatureDecorator.java  
 \* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
 jar/net/logstash/logback/composite/loggingevent/UuidProvider.java  
 \* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
 jar/net/logstash/logback/composite/AbstractJsonProvider.java  
 \* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
 jar/net/logstash/logback/appender/SSLLogstashTcpSocketAppender.java  
 \* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
 jar/net/logstash/logback/composite/accessevent/AccessEventJsonProviders.java  
 \* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
 jar/net/logstash/logback/composite/GlobalCustomFieldsJsonProvider.java  
 \* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
 jar/net/logstash/logback/appender/DelegatingAsyncDisruptorAppender.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
 jar/net/logstash/logback/appender/destination/DestinationConnectionStrategyWithTtl.java  
 \* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
 jar/net/logstash/logback/marker/Markers.java  
 \* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
 jar/net/logstash/logback/Logback11Support.java  
 \* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
 jar/net/logstash/logback/marker/MapEntriesAppendingMarker.java  
 \* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
 jar/net/logstash/logback/composite/accessevent/AccessEventPatternJsonProvider.java  
 \* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
 jar/net/logstash/logback/stacktrace/ShortenedThrowableConverter.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
 jar/net/logstash/logback/marker/SingleFieldAppendingMarker.java  
 \* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
 jar/net/logstash/logback/marker/LogstashMarker.java  
 \* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
 jar/net/logstash/logback/marker/RawJsonAppendingMarker.java  
 \* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
 jar/net/logstash/logback/marker/EmptyLogstashMarker.java  
 \* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
 jar/net/logstash/logback/layout/LoggingEventCompositeJsonLayout.java  
 \* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
 jar/net/logstash/logback/composite/JsonWritingUtils.java  
 \* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
 jar/net/logstash/logback/argument/StructuredArgument.java  
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\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/NullAbbreviator.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/JsonFactoryAware.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/fieldnames/LogstashAccessFieldNames.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appender/ShutdownInProgressException.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appender/AsyncDisruptorAppender.java  
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/opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/layout/CompositeJsonLayout.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/loggingevent/ContextMapJsonProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/encoder/LogstashTcpEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/AbstractFieldJsonProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/loggingevent/StackHashJsonProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appender/listener/LoggingEventAppenderListenerImpl.java  
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/opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/decorate/CompositeJsonGeneratorDecorator.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/decorate/yaml/YamlFeatureJsonGeneratorDecorator.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/JsonProviders.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appender/AbstractLogstashUdpSocketAppender.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/CompositeJsonFormatter.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/accessevent/RequestedUriJsonProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/accessevent/IncludeExcludeHeaderFilter.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/decorate/NullJsonGeneratorDecorator.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appender/listener/FailureSummaryAppenderListener.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appender/LoggingEventAsyncDisruptorAppender.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-

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jar/net/logstash/logback/mask/PathBasedFieldMasker.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/composite/loggingevent/AbstractThrowableClassNameJsonProvider.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/composite/accessevent/AccessMessageJsonProvider.java
*
/opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/fieldnames/LogstashFieldNames.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/appender/LogstashAccessUdpSocketAppender.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/composite/loggingevent/SequenceJsonProvider.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/composite/loggingevent/ContextNameJsonProvider.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
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* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/fieldnames/Pre50LogstashAccessFieldNames.java
*
/opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/composite/accessevent/MethodJsonProvider.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/composite/loggingevent/MessageJsonProvider.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
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* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/encoder/SeparatorParser.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/composite/JsonProvider.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/marker/ObjectFieldsAppendingMarker.java
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jar/net/logstash/logback/status/DelegatingStatusListener.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/decorate/yaml/YamlJsonFactoryDecorator.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/decorate/CompositeJsonFactoryDecorator.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
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* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
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* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
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*
/opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-
jar/net/logstash/logback/CachingAbbreviator.java
* /opt/ws_local/PERMITS_SQL/1077482335_1596857747.4/0/logstash-logback-encoder-6-4-sources-

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jar/net/logstash/logback/appender/destination/DestinationParser.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
jar/net/logstash/logback/appender/AbstractLogstashTcpSocketAppender.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
jar/net/logstash/logback/composite/loggingevent/TagsJsonProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
jar/net/logstash/logback/appender/RingBufferFullException.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
jar/net/logstash/logback/composite/loggingevent/ThrowableRootCauseClassNameJsonProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
jar/net/logstash/logback/marker/ObjectAppendingMarker.java  
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\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
jar/net/logstash/logback/decorate/cbor/CborFeatureJsonGeneratorDecorator.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
jar/net/logstash/logback/decorate/FeatureJsonFactoryDecorator.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
jar/net/logstash/logback/appender/listener/TcpAppenderListener.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
jar/net/logstash/logback/decorate/NullJsonFactoryDecorator.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
jar/net/logstash/logback/composite/loggingevent/ArgumentsJsonProvider.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
jar/net/logstash/logback/appender/listener/FailureSummaryLoggingAppenderListener.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
jar/net/logstash/logback/mask/ValueMasker.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
jar/net/logstash/logback/marker/DeferredLogstashMarker.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/accessevent/AccessEventCompositeJsonFormatter.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/fieldnames/ShortenedFieldNames.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/stacktrace/StackHasher.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/ContextJsonProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/LogstashAccessFormatter.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/decorate/smile/SmileJsonFactoryDecorator.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/mask/MaskingJsonGenerator.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/loggingevent/ThrowableClassNameJsonProvider.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/accessevent/RequestHeadersJsonProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/LogstashVersionJsonProvider.java  
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\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/appender/AccessEventAsyncDisruptorAppender.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/composite/accessevent/StatusCodeJsonProvider.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/encoder/LoggingEventCompositeJsonEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1077482335\_1596857747.4/0/logstash-logback-encoder-6-4-sources-jar/net/logstash/logback/mask/FieldMasker.java  
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# 1.347 jackson 2.9.10

## 1.347.1 Available under license :

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# 1.350 native 1.2.19

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\* /opt/ws\_local/PERMITS\_SQL/1078556129\_1600060841.23/0/jffi-1-2-19-native-jar/META-INF/MANIFEST.MF

## 1.351 xz 5.2.4 1

### 1.351.1 Available under license :

Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: XZ Utils

Upstream-Contact:

Lasse Collin <[lasse.collin@tukaani.org](mailto:lasse.collin@tukaani.org)>

<https://tukaani.org/xz/lists.html>

Source:

<https://tukaani.org/xz>

<https://git.tukaani.org/xz.git>

Comment:

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Comment:

From: Lasse Collin <lasse.collin@tukaani.org>

To: Jonathan Nieder <jrnieder@gmail.com>

Subject: Re: XZ utils for Debian

Date: Sun, 19 Jul 2009 13:28:23 +0300

Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

.  
[...]

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Other-Authors: Roland McGrath, Akim Demaille, Paul Eggert,

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Origin: configure.ac from XZ Utils,

visibility.m4 serial 1 (gettext-0.15),

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Origin: gettext-runtime/po/Makevars (gettext-0.12)

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Authors: Bruno Haible

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## 1.353 jose4j 0.7.2

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* /opt/ws_local/PERMITS_SQL/1080693164_1597675478.73/0/jose4j-0-7-2-sources-
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/opt/ws_local/PERMITS_SQL/1080693164_1597675478.73/0/jose4j-0-7-2-sources-
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* /opt/ws_local/PERMITS_SQL/1080693164_1597675478.73/0/jose4j-0-7-2-sources-
jar/org/jose4j/jwe/EcdhKeyAgreementWithAesKeyWrapAlgorithm.java
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 \* /opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-jar/org/jose4j/zip/CompressionAlgorithm.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-jar/org/jose4j/lang/ExceptionHelp.java  
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 \* /opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-jar/org/jose4j/jwt/ReservedClaimNames.java  
 \* /opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-jar/org/jose4j/jwe/CipherUtil.java  
 \* /opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-jar/org/jose4j/jwt/IntDate.java  
 \* /opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-jar/org/jose4j/lang/ByteUtil.java  
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 jar/org/jose4j/jwx/HeaderParameterNames.java  
 \* /opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-  
 jar/org/jose4j/jwe/ContentEncryptionHelp.java  
 \*  
 /opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-  
 jar/org/jose4j/jwk/EcJwkGenerator.java  
 \* /opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-  
 jar/org/jose4j/jwe/kdf/PasswordBasedKeyDerivationFunction2.java  
 \* /opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-

jar/org/jose4j/jwk/EllipticCurveJsonWebKey.java  
\* /opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-  
jar/org/jose4j/jwk/KeyOperations.java  
\* /opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-  
jar/org/jose4j/jwt/NumericDate.java  
\* /opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-  
jar/org/jose4j/jwt/consumer/JwtConsumerBuilder.java  
\* /opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-  
jar/org/jose4j/jwt/consumer/JtiValidator.java  
\* /opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-  
jar/org/jose4j/jwx/CompactSerialization.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-  
jar/org/jose4j/jca/ProviderContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-  
jar/org/jose4j/jwt/consumer/Validator.java  
\* /opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-  
jar/org/jose4j/jws/HmacUsingShaAlgorithm.java  
\* /opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-  
jar/org/jose4j/jwe/AesCbcHmacSha2ContentEncryptionAlgorithm.java  
\* /opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-  
jar/org/jose4j/lang/InvalidAlgorithmException.java  
\* /opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-  
jar/org/jose4j/keys/resolvers/DecryptionKeyResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-  
jar/org/jose4j/jwa/AlgorithmAvailability.java  
\* /opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-  
jar/org/jose4j/keys/EllipticCurves.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-  
jar/org/jose4j/jwt/consumer/JwsCustomizer.java  
\* /opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-  
jar/org/jose4j/jwk/VerificationJwkSelector.java

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-  
jar/org/jose4j/base64url/internal/apache/commons/codec/binary/BaseNCodec.java  
\*

/opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-  
jar/org/jose4j/base64url/internal/apache/commons/codec/binary/Base64.java

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-  
jar/org/jose4j/lang/InvalidKeyException.java

\* /opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-  
jar/org/jose4j/jwk/DecryptionJwkSelector.java

\* /opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-  
jar/org/jose4j/jwk/SimpleJwkFilter.java  
\*

/opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-  
jar/org/jose4j/jwk/SelectorSupport.java

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\* /opt/ws\_local/PERMITS\_SQL/1080693164\_1597675478.73/0/jose4j-0-7-2-sources-  
jar/org/jose4j/jwk/HttpsJwks.java

# 1.354 feign-hystrix 10.10.1

## 1.354.1 Available under license :

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```
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express  
* or implied. See the License for the specific language governing permissions and limitations under  
* the License.  
*/
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1081992530\_1597853306.27/0/feign-hystrix-10-10-1-sources-  
jar/feign/hystrix/SetterFactory.java

\* /opt/ws\_local/PERMITS\_SQL/1081992530\_1597853306.27/0/feign-hystrix-10-10-1-sources-  
jar/feign/hystrix/HystrixFeign.java

\* /opt/ws\_local/PERMITS\_SQL/1081992530\_1597853306.27/0/feign-hystrix-10-10-1-sources-  
jar/feign/hystrix/FallbackFactory.java

\*  
/opt/ws\_local/PERMITS\_SQL/1081992530\_1597853306.27/0/feign-hystrix-10-10-1-sources-  
jar/feign/hystrix/HystrixInvocationHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1081992530\_1597853306.27/0/feign-hystrix-10-10-1-sources-  
jar/feign/hystrix/HystrixDelegatingContract.java

\* /opt/ws\_local/PERMITS\_SQL/1081992530\_1597853306.27/0/feign-hystrix-10-10-1-sources-  
jar/feign/hystrix/ObservableCompletableFuture.java

\* /opt/ws\_local/PERMITS\_SQL/1081992530\_1597853306.27/0/feign-hystrix-10-10-1-sources-

jar/feign/hystrix/HystrixCapability.java

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1081992530\_1597853306.27/0/feign-hystrix-10-10-1-sources-jar/META-INF/maven/io.github.openfeign/feign-hystrix/pom.xml

## 1.355 hibernate-validator 6.1.5.Final

### 1.355.1 Available under license :

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```
/*
 * Hibernate Validator, declare and validate application constraints
 *
 * License: Apache License, Version 2.0
 * See the license.txt file in the root directory or <http://www.apache.org/licenses/LICENSE-2.0>.
 */
/**
 * Retrieves constraint related meta data for the parameters of the given
 * executable.
 *
 * @param javaBeanExecutable The executable of interest.
 *
 * @return A list with parameter meta data for the given executable.
 */
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java

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~ Hibernate Validator, declare and validate application constraints

~

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/META-INF/validation-mapping-1.0.xsd

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/META-INF/maven/org.hibernate.validator/hibernate-validator/pom.xml

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/META-INF/validation-configuration-1.1.xsd

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/META-INF/validation-configuration-1.0.xsd

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/overview.html

\*

/opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/META-INF/validation-mapping-1.1.xsd

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/META-INF/validation-mapping-2.0.xsd

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/META-INF/validation-configuration-2.0.xsd

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\*/

/\*\*

\* <p>

\* A method-level constraint, that evaluates a script expression against the  
\* annotated method or constructor. This constraint can be used to implement  
\* validation routines that depend on several parameters of the annotated  
\* executable.

\* </p>

\* <p>

\* Script expressions can be written in any scripting or expression language,  
\* for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>  
\* ("Scripting for the Java<sup>TM</sup> Platform") compatible engine can be  
\* found on the classpath. To refer to a parameter within the scripting  
\* expression, use its name as obtained by the active  
\* { @link javax.validation.ParameterNameProvider }. The default provider will  
\* return the

actual parameter names, if the -parameters compiler option

\* has been enabled, and { @code arg0 }, { @code arg1 } etc. otherwise.

\* </p>



```

* <p>
* The following listing shows an example using the JavaScript engine which
* comes with the JDK:
* </p>
* <pre>
* { @code @ParameterScriptAssert(script = "start.before(end)", lang = "javascript")
* public void createEvent(Date start, Date end) { ... }
* }
* </pre>
* <p>
* Can be specified on any method or constructor.
* </p>
*
* @author Gunnar Morling
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/constraints/ParameterScriptAssert.java

```

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*/
/*
* Written by Doug Lea with assistance from members of JCP JSR-166
* Expert Group and released to the public domain, as explained at
* http://creativecommons.org/licenses/publicdomain
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/internal/util/ConcurrentReferenceHashMap.java

```

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```

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```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/internal/constraintvalidators/hv/br/CPFValidator.java

```

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/package-info.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/constraints/URL.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/engine/ConfigurationImpl.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/constraints/Length.java

\*

/opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/xml/mapping/AbstractOneLineStringStaxBuilder.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/cfg/context/ReturnValueTarget.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/metadata/location/BeanConstraintLocation.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/xml/package-info.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/NegativeValidatorForLong.java

\*

/opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/PositiveValidatorForBigInteger.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/util/privilegedactions/GetClassLoader.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/metadata/location/AbstractPropertyConstraintLocation.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/HibernateValidatorContext.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/util/logging/Log.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/util/privilegedactions/GetMethod.java

\*

/opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/util/TypeVariables.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/spi/nodenameprovider/PropertyNameProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/cfg/context/TypeConstraintMappingContext.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/xml/mapping/ContainerElementTypeConfigurationBuilder.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/xml/mapping/ContainerElementTypePath.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/constraints/br/CNPJ.java

\*

/opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/util/privilegedactions/NewProxyInstance.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/cfg/defs/br/TituloEleitoralDef.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/cfg/context/MethodConstraintMappingContextImpl.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/hv/time/DurationMinValidator.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/properties/Property.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/util/privilegedactions/GetInstancesFromServiceLoader.java

\*

/opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/InfinityNumberComparatorHelper.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/resourceloading/DelegatingResourceBundleLocator.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/messageinterpolation/HibernateMessageInterpolatorContext.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/pastorpresent/PastOrPresentValidatorForDate.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/bv/money/NegativeOrZeroValidatorForMonetaryAmount.java

va

\*

/opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/engine/valueextraction/ByteArrayValueExtractor.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/engine/constraintvalidation/HibernateConstraintValidatorInitializationContextImpl.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/future/FutureValidatorForYearMonth.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/NegativeOrZeroValidatorForBigInteger.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/pastorpresent/PastOrPresentValidatorForOffsetDateTime.java

Time.java

\*

/opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/metadata/raw/BeanConfiguration.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/bv/NotBlankValidator.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/Incubating.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/spi/group/DefaultGroupSequenceProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/Token.java

\*

/opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/engine/valueextraction/OptionalLongValueExtractor.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/bv/size/SizeValidatorForArraysOfLong.java  
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/opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/hv/pl/PolishNumberValidator.java

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\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/util/annotation/AnnotationFactory.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/metadata/provider/MetaDataProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/future/AbstractFutureInstantBasedValidator.java

\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/NegativeOrZeroValidatorForNumber.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/futureorpresent/FutureOrPresentValidatorForReadablePartial.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/ELState.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/cfg/defs/pl/REGONDef.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/metadata/raw/ConstrainedElement.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/decimal/DecimalMaxValidatorForFloat.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/metadata/raw/ConfigurationSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/metadata/BeanMetaDataClassNormalizer.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/future/FutureValidatorForHijrahDate.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/util/logging/formatter/TypeFormatter.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/util/classhierarchy/ClassHierarchyHelper.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/engine/valueextraction/OptionalIntValueExtractor.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/properties/DefaultGetterPropertySelectionStrategy.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/metadata/raw/ConstrainedExecutable.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/hv/LuhnCheckValidator.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/future/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/cfg/defs/RangeDef.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/ParserState.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/metadata/aggregated/ReturnValueMetaData.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/pastorpresent/PastOrPresentValidatorForLocalDate.java  
\*  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/hibernate-validator-6-1-5-final-sources-2-

```

jar/org/hibernate/validator/cfg/defs/NullDef.java
* /opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/internal/engine/groups/ValidationOrder.java
* /opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/internal/metadata/descriptor/ContainerElementTypeDescriptorImpl.java
*
/opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/constraints/pl/package-info.java
* /opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/future/FutureValidatorForLocalDate.java
* /opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/internal/util/privilegedactions/GetDeclaredFields.java
* /opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/internal/engine/valueextraction/ReadOnlyMapPropertyValueExtractor.java
* /opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/futureorpresent/FutureOrPresentValidatorForOffset
Date Time.java
*
/opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/cfg/defs/NegativeDef.java
* /opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/internal/util/privilegedactions/GetDeclaredField.java
* /opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/constraintvalidation/HibernateConstraintValidatorInitializationContext.java
* /opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/internal/util/stereotypes/Immutable.java
* /opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/internal/metadata/BeanMetaDataManager.java
* /opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/internal/engine/PredefinedScopeConfigurationImpl.java
*
/opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/internal/util/logging/formatter/ArrayOfClassesObjectFormatter.java
* /opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/future/FutureValidatorForOffsetDate Time.java
* /opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/internal/engine/valueextraction/OptionalValueExtractor.java
* /opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/internal/engine/valueextraction/ValueExtractorDescriptor.java
* /opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/internal/util/privilegedactions/GetAnnotationAttribute.java
*
/opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/engine/HibernateConstraintViolation.java
* /opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/internal/xml/mapping/AbstractMultiValuedElementStaxBuilder.java
* /opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/cfg/defs/EmailDef.java

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\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/resourceloading/AggregateResourceBundleLocator.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/engine/DefaultParameterNameProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/cfg/defs/LuhnCheckDef.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/cfg/context/ConstraintDefinitionContextImpl.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/engine/constraintvalidation/ConstraintValidatorManagerImpl.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/decimal/DecimalMaxValidatorForBigInteger.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/metadata/descriptor/ParameterDescriptorImpl.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/engine/validationcontext/ExecutableValidationContext.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/metadata/location/FieldConstraintLocation.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/xml/config/BootstrapConfigurationImpl.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/sign/PositiveValidatorForInteger.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/pastorpresent/PastOrPresentValidatorForThaiBuddhistDate.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/engine/messageinterpolation/InterpolationTerm.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/decimal/DecimalMinValidatorForNumber.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/spi/properties/GetterPropertySelectionStrategy.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/engine/valueextraction/OptionalDoubleValueExtractor.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/futureorpresent/FutureOrPresentValidatorForThaiBuddhistDate.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/xml/mapping/ClassConstraintTypeStaxBuilder.java  
\* /opt/ws\_local/PERMITS\_SQL/1082167578\_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-jar/org/hibernate/validator/internal/constraintvalidators/bv/number/bound/decimal/DecimalMinValidatorForLong.java  
\*  
\*

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/opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/constraints/br/package-info.java
* /opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/internal/cfg/context/ParameterConstraintMappingContextImpl.java
* /opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/future/FutureValidatorForReadablePartial.java
* /opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/internal/cfg/context/CascadableConstraintMappingContextImplBase.java
* /opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/internal/engine/valueextraction/CharArrayValueExtractor.java
*
```

```
/opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/cfg/defs/AssertTrueDef.java
* /opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/internal/properties/javabean/package-info.java
* /opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/resourceloading/PlatformResourceBundleLocator.java
* /opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/constraints/ConstraintComposition.java
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```
* /opt/ws_local/PERMITS_SQL/1082167578_1597877588.44/0/hibernate-validator-6-1-5-final-sources-2-
jar/org/hibernate/validator/internal/util/TypeHelper.java
```

## 1.356 d-bus 1.12.20-0+deb10u1

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type `show c' for details.
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```

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<signature of Ty Coon>, 1 April 1989
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/opt/ws\_local/PERMITS\_SQL/1082517914\_1597960315.48/0/springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/mappers/SecurityMapper.java  
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\* /opt/ws\_local/PERMITS\_SQL/1082517914\_1597960315.48/0/springfox-swagger2-3-0-0-sources-jar/springfox/documentation/swagger2/annotations/EnableSwagger2.java  
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jar/springfox/documentation/swagger/readers/operation/OperationSummaryReader.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/operation/OperationNotesReader.java
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jar/springfox/documentation/swagger/readers/operation/OperationHttpMethodReader.java
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jar/springfox/documentation/swagger/readers/operation/SwaggerOperationModelsProvider.java
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jar/springfox/documentation/swagger/readers/operation/OpenApiOperationTagsReader.java
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* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/operation/VendorExtensionsReader.java
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jar/springfox/documentation/swagger/readers/operation/OperationNicknameIntoUniqueIdReader.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/operation/SwaggerOperationTagsReader.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/operation/OperationPositionReader.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-
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/opt/ws\_local/PERMITS\_SQL/1082519065\_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/UiConfigurationBuilder.java

\* /opt/ws\_local/PERMITS\_SQL/1082519065\_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/DocExpansion.java

\* /opt/ws\_local/PERMITS\_SQL/1082519065\_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/TagsSorter.java

\* /opt/ws\_local/PERMITS\_SQL/1082519065\_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/SecurityConfigurationBuilder.java

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\* /opt/ws\_local/PERMITS\_SQL/1082519065\_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/SecurityConfiguration.java

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/opt/ws\_local/PERMITS\_SQL/1082519065\_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/web/SwaggerResource.java

\* /opt/ws\_local/PERMITS\_SQL/1082519065\_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/common/XForwardPrefixPathAdjuster.java

\* /opt/ws\_local/PERMITS\_SQL/1082519065\_1597960278.73/0/springfox-swagger-common-3-0-0-sources-jar/springfox/documentation/swagger/readers/parameter/Examples.java

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jar/springfox/documentation/swagger/readers/operation/OperationImplicitParameterReader.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/schema/ApiModelPropertyProperties.java
*
/opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/operation/OpenApiResponseReader.java
* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-
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* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-
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* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-
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/opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-
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* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-
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* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-
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* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-
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* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-
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* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/readers/parameter/OpenApiParameterBuilder.java
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* /opt/ws_local/PERMITS_SQL/1082519065_1597960278.73/0/springfox-swagger-common-3-0-0-sources-
jar/springfox/documentation/swagger/common/SwaggerPluginSupport.java
```

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\* /opt/ws\_local/PERMITS\_SQL/1082519108\_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/RequestHandler.java

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\* /opt/ws\_local/PERMITS\_SQL/1082519108\_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/SecurityScheme.java  
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/opt/ws\_local/PERMITS\_SQL/1082519108\_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/Parameter.java  
\* /opt/ws\_local/PERMITS\_SQL/1082519108\_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/OAuth.java  
\* /opt/ws\_local/PERMITS\_SQL/1082519108\_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ApiKey.java

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jar/springfox/documentation/builders/ModelBuilder.java  
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\* /opt/ws\_local/PERMITS\_SQL/1082519108\_1597955825.09/0/springfox-core-3-0-0-sources-  
jar/springfox/documentation/builders/ParameterBuilder.java

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\* /opt/ws\_local/PERMITS\_SQL/1082519108\_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/schema/ModelReference.java  
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\* /opt/ws\_local/PERMITS\_SQL/1082519108\_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/Contact.java

\* /opt/ws\_local/PERMITS\_SQL/1082519108\_1597955825.09/0/springfox-core-3-0-0-sources-  
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 jar/springfox/documentation/schema/AlternateTypeRule.java  
 \* /opt/ws\_local/PERMITS\_SQL/1082519108\_1597955825.09/0/springfox-core-3-0-0-sources-  
 jar/springfox/documentation/builders/TokenRequestEndpointBuilder.java  
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 /opt/ws\_local/PERMITS\_SQL/1082519108\_1597955825.09/0/springfox-core-3-0-0-sources-  
 jar/springfox/documentation/service/ImplicitGrant.java  
 \* /opt/ws\_local/PERMITS\_SQL/1082519108\_1597955825.09/0/springfox-core-3-0-0-sources-  
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 \* /opt/ws\_local/PERMITS\_SQL/1082519108\_1597955825.09/0/springfox-core-3-0-0-sources-  
 jar/springfox/documentation/builders/PathSelectors.java  
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 jar/springfox/documentation/schema/Xml.java  
 \* /opt/ws\_local/PERMITS\_SQL/1082519108\_1597955825.09/0/springfox-core-3-0-0-sources-  
 jar/springfox/documentation/service/VendorExtension.java  
 \* /opt/ws\_local/PERMITS\_SQL/1082519108\_1597955825.09/0/springfox-core-3-0-0-sources-  
 jar/springfox/documentation/service/ClientCredentialsGrant.java  
 \* /opt/ws\_local/PERMITS\_SQL/1082519108\_1597955825.09/0/springfox-core-3-0-0-sources-  
 jar/springfox/documentation/spring/wrapper/NameValueExpression.java  
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 jar/springfox/documentation/service/GrantType.java  
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 jar/springfox/documentation/annotations/Incubating.java  
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 jar/springfox/documentation/service/TokenEndpoint.java  
 \* /opt/ws\_local/PERMITS\_SQL/1082519108\_1597955825.09/0/springfox-core-3-0-0-sources-

jar/springfox/documentation/service/AuthorizationCodeGrant.java  
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jar/springfox/documentation/PathProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1082519108\_1597955825.09/0/springfox-core-3-0-0-sources-  
jar/springfox/documentation/service/AuthorizationScope.java  
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jar/springfox/documentation/spring/wrapper/RequestMappingInfo.java  
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jar/springfox/documentation/service/CredentialsGrant.java  
\* /opt/ws\_local/PERMITS\_SQL/1082519108\_1597955825.09/0/springfox-core-3-0-0-sources-  
jar/springfox/documentation/service/AllowableRangeValues.java  
\* /opt/ws\_local/PERMITS\_SQL/1082519108\_1597955825.09/0/springfox-core-3-0-0-sources-  
jar/springfox/documentation/builders/TokenEndpointBuilder.java  
\* /opt/ws\_local/PERMITS\_SQL/1082519108\_1597955825.09/0/springfox-core-3-0-0-sources-  
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jar/springfox/documentation/builders/ImplicitGrantBuilder.java  
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jar/springfox/documentation/service/ResourceOwnerPasswordCredentialsGrant.java  
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jar/springfox/documentation/schema/Entry.java  
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jar/springfox/documentation/service/TokenRequestEndpoint.java  
\* /opt/ws\_local/PERMITS\_SQL/1082519108\_1597955825.09/0/springfox-core-3-0-0-sources-  
jar/springfox/documentation/spring/wrapper/PatternsRequestCondition.java  
\* /opt/ws\_local/PERMITS\_SQL/1082519108\_1597955825.09/0/springfox-core-3-0-0-sources-  
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/opt/ws\_local/PERMITS\_SQL/1082519108\_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/service/ListVendorExtension.java  
\* /opt/ws\_local/PERMITS\_SQL/1082519108\_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/common/SpringVersionCapability.java  
\* /opt/ws\_local/PERMITS\_SQL/1082519108\_1597955825.09/0/springfox-core-3-0-0-sources-jar/springfox/documentation/common/ClassNotPresentInClassPathCondition.java

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\* /opt/ws\_local/PERMITS\_SQL/1082517923\_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/parameter/ParameterNameReader.java

\*

/opt/ws\_local/PERMITS\_SQL/1082517923\_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/scanners/ApiListingReferenceScanner.java

\* /opt/ws\_local/PERMITS\_SQL/1082517923\_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/plugins/DuplicateGroupsDetector.java

\* /opt/ws\_local/PERMITS\_SQL/1082517923\_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/DescriptionResolver.java

\* /opt/ws\_local/PERMITS\_SQL/1082517923\_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/parameter/ModelAttributeField.java

\* /opt/ws\_local/PERMITS\_SQL/1082517923\_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/operation/ApiOperationReader.java

\* /opt/ws\_local/PERMITS\_SQL/1082517923\_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/scanners/ApiModelReader.java

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/opt/ws\_local/PERMITS\_SQL/1082517923\_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/plugins/Docket.java

\* /opt/ws\_local/PERMITS\_SQL/1082517923\_1597960332.64/0/springfox-spring-web-3-0-0-sources-jar/springfox/documentation/spring/web/readers/operation/OperationResponseClassReader.java

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* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/readers/parameter/ExpandedParameterBuilder.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/readers/operation/OperationParameterReader.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/readers/operation/CachingOperationNameGenerator.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/scanners/ApiListingScanner.java
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/opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/readers/parameter/ParameterRequiredReader.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/scanners/ApiDescriptionReader.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/ControllerNamingUtils.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/paths/Paths.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/plugins/DocumentationPluginsBootstrapper.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/scanners/ApiDocumentationScanner.java
*
/opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/paths/QueryStringUriTemplateDecorator.java
* /opt/ws_local/PERMITS_SQL/1082517923_1597960332.64/0/springfox-spring-web-3-0-0-sources-
jar/springfox/documentation/spring/web/plugins/DocumentationPluginsManager.java

```

# 1.361 springfox-spi 3.0.0

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\* /opt/ws\_local/PERMITS\_SQL/1082518019\_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/SyntheticModelProviderPlugin.java

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\* /opt/ws\_local/PERMITS\_SQL/1082518019\_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/RequestHandlerCombiner.java

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jar/springfox/documentation/spi/schema/UniqueTypeNameAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1082518019\_1597960242.29/0/springfox-spi-3-0-0-sources-  
jar/springfox/documentation/spi/schema/ViewProviderPlugin.java  
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jar/springfox/documentation/spi/service/ApiListingScannerPlugin.java  
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\* /opt/ws\_local/PERMITS\_SQL/1082518019\_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/OperationContext.java  
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\* /opt/ws\_local/PERMITS\_SQL/1082518019\_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/DocumentationContextBuilder.java  
\* /opt/ws\_local/PERMITS\_SQL/1082518019\_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/PathContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1082518019\_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/AlternateTypeProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1082518019\_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/contexts/ModelContext.java  
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\* /opt/ws\_local/PERMITS\_SQL/1082518019\_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/DocumentationContext.java  
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\* /opt/ws\_local/PERMITS\_SQL/1082518019\_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/RequestMappingContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1082518019\_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/ParameterExpansionContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1082518019\_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/ParameterContext.java

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- \* /opt/ws\_local/PERMITS\_SQL/1082518019\_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/RequestHandlerProvider.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1082518019\_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/ParameterBuilderPlugin.java
- \* /opt/ws\_local/PERMITS\_SQL/1082518019\_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/OperationBuilderPlugin.java
- \* /opt/ws\_local/PERMITS\_SQL/1082518019\_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/DefaultsProviderPlugin.java
- \* /opt/ws\_local/PERMITS\_SQL/1082518019\_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/DocumentationPlugin.java
- \* /opt/ws\_local/PERMITS\_SQL/1082518019\_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/ModelPropertyBuilderPlugin.java
- \* /opt/ws\_local/PERMITS\_SQL/1082518019\_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/ApiListingContext.java
- \* /opt/ws\_local/PERMITS\_SQL/1082518019\_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/OperationModelsProviderPlugin.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1082518019\_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/contexts/ModelPropertyContext.java
- \* /opt/ws\_local/PERMITS\_SQL/1082518019\_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/ApiListingBuilderPlugin.java
- \* /opt/ws\_local/PERMITS\_SQL/1082518019\_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/service/PathAdjuster.java
- \* /opt/ws\_local/PERMITS\_SQL/1082518019\_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/service/contexts/ApiSelector.java
- \* /opt/ws\_local/PERMITS\_SQL/1082518019\_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/service/PathDecorator.java
- \* /opt/ws\_local/PERMITS\_SQL/1082518019\_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/GenericTypeNamingStrategy.java
- \* /opt/ws\_local/PERMITS\_SQL/1082518019\_1597960242.29/0/springfox-spi-3-0-0-sources-jar/springfox/documentation/spi/schema/ModelBuilderPlugin.java

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/opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-
jar/springfox/documentation/spi/service/contexts/SecurityContext.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-
jar/springfox/documentation/spi/schema/TypeNameProviderPlugin.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-
jar/springfox/documentation/spi/DocumentationType.java
* /opt/ws_local/PERMITS_SQL/1082518019_1597960242.29/0/springfox-spi-3-0-0-sources-
jar/springfox/documentation/spi/schema/EnumTypeDeterminer.java
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## 1.362 springfox-schema 3.0.0

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\* /opt/ws\_local/PERMITS\_SQL/1082518454\_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/CachingModelPropertyProvider.java  
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\* /opt/ws\_local/PERMITS\_SQL/1082518454\_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/ModelReferenceProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1082518454\_1597956193.64/0/springfox-schema-3-0-0-sources-

jar/springfox/documentation/schema/property/bean/BeanModelProperty.java  
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jar/springfox/documentation/schema/ResolvedTypes.java  
\* /opt/ws\_local/PERMITS\_SQL/1082518454\_1597956193.64/0/springfox-schema-3-0-0-sources-  
jar/springfox/documentation/schema/property/bean/AccessorsProvider.java  
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jar/springfox/documentation/schema/property/FactoryMethodProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1082518454\_1597956193.64/0/springfox-schema-3-0-0-sources-  
jar/springfox/documentation/schema/property/field/FieldProvider.java  
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jar/springfox/documentation/schema/Annotations.java  
\* /opt/ws\_local/PERMITS\_SQL/1082518454\_1597956193.64/0/springfox-schema-3-0-0-sources-  
jar/springfox/documentation/schema/DefaultModelSpecificationProvider.java  
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jar/springfox/documentation/schema/DefaultModelProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1082518454\_1597956193.64/0/springfox-schema-3-0-0-sources-  
jar/springfox/documentation/schema/DefaultModelDependencyProvider.java  
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jar/springfox/documentation/schema/property/OptimizedModelPropertiesProvider.java  
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jar/springfox/documentation/schema/TypeNameExtractor.java  
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jar/springfox/documentation/schema/CachingModelDependencyProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1082518454\_1597956193.64/0/springfox-schema-3-0-0-sources-  
jar/springfox/documentation/schema/property/ObjectMapperBeanPropertyNameingStrategy.java  
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\* /opt/ws\_local/PERMITS\_SQL/1082518454\_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/CodeGenGenericTypeNamingStrategy.java

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\* /opt/ws\_local/PERMITS\_SQL/1082518454\_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/PojoPropertyBuilderFactory.java

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\* /opt/ws\_local/PERMITS\_SQL/1082518454\_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/ModelSpecificationProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1082518454\_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/bean/ParameterModelProperty.java

\* /opt/ws\_local/PERMITS\_SQL/1082518454\_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/ModelProperty.java

\* /opt/ws\_local/PERMITS\_SQL/1082518454\_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/BeanPropertyNamingStrategy.java

\* /opt/ws\_local/PERMITS\_SQL/1082518454\_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/plugins/SchemaPluginsManager.java

\*

/opt/ws\_local/PERMITS\_SQL/1082518454\_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/DefaultGenericTypeNamingStrategy.java

\* /opt/ws\_local/PERMITS\_SQL/1082518454\_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/configuration/ModelsConfiguration.java

\* /opt/ws\_local/PERMITS\_SQL/1082518454\_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/ModelPropertyProvider.java

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\* /opt/ws\_local/PERMITS\_SQL/1082518454\_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/plugins/XmlModelPlugin.java  
\*

/opt/ws\_local/PERMITS\_SQL/1082518454\_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/plugins/PropertyDiscriminatorBasedInheritancePlugin.java  
\* /opt/ws\_local/PERMITS\_SQL/1082518454\_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/XmlPropertyPlugin.java  
\* /opt/ws\_local/PERMITS\_SQL/1082518454\_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/plugins/JacksonXmlModelPlugin.java  
\* /opt/ws\_local/PERMITS\_SQL/1082518454\_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/plugins/JsonIgnorePropertiesModelPlugin.java  
\* /opt/ws\_local/PERMITS\_SQL/1082518454\_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/property/JacksonXmlPropertyPlugin.jar

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\* /opt/ws\_local/PERMITS\_SQL/1082518454\_1597956193.64/0/springfox-schema-3-0-0-sources-jar/springfox/documentation/schema/JacksonEnumTypeDeterminer.java

## 1.363 classgraph 4.8.69

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jar/net/objecthunter/exp4j/tokenizer/Token.java  
\* /opt/ws\_local/PERMITS\_SQL/1084394563\_1598481158.67/0/exp4j-0-4-8-sources-1-  
jar/net/objecthunter/exp4j/operator/Operator.java  
\* /opt/ws\_local/PERMITS\_SQL/1084394563\_1598481158.67/0/exp4j-0-4-8-sources-1-  
jar/net/objecthunter/exp4j/tokenizer/NumberToken.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1084394563\_1598481158.67/0/exp4j-0-4-8-sources-1-  
jar/net/objecthunter/exp4j/function/Functions.java  
\* /opt/ws\_local/PERMITS\_SQL/1084394563\_1598481158.67/0/exp4j-0-4-8-sources-1-  
jar/net/objecthunter/exp4j/tokenizer/OperatorToken.java  
\* /opt/ws\_local/PERMITS\_SQL/1084394563\_1598481158.67/0/exp4j-0-4-8-sources-1-  
jar/net/objecthunter/exp4j/ValidationResult.java  
\* /opt/ws\_local/PERMITS\_SQL/1084394563\_1598481158.67/0/exp4j-0-4-8-sources-1-  
jar/net/objecthunter/exp4j/operator/Operators.java  
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jar/net/objecthunter/exp4j/tokenizer/CloseParenthesesToken.java



\* /opt/ws\_local/PERMITS\_SQL/1084394563\_1598481158.67/0/exp4j-0-4-8-sources-1-jar/net/objecthunter/exp4j/tokenizer/VariableToken.java  
\* /opt/ws\_local/PERMITS\_SQL/1084394563\_1598481158.67/0/exp4j-0-4-8-sources-1-jar/net/objecthunter/exp4j/tokenizer/FunctionToken.java

\*  
/opt/ws\_local/PERMITS\_SQL/1084394563\_1598481158.67/0/exp4j-0-4-8-sources-1-jar/net/objecthunter/exp4j/tokenizer/ArgumentSeparatorToken.java  
\* /opt/ws\_local/PERMITS\_SQL/1084394563\_1598481158.67/0/exp4j-0-4-8-sources-1-jar/net/objecthunter/exp4j/tokenizer/OpenParenthesesToken.java  
\* /opt/ws\_local/PERMITS\_SQL/1084394563\_1598481158.67/0/exp4j-0-4-8-sources-1-jar/net/objecthunter/exp4j/shuntingyard/ShuntingYard.java

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\* /opt/ws\_local/PERMITS\_SQL/1084394563\_1598481158.67/0/exp4j-0-4-8-sources-1-jar/net/objecthunter/exp4j/function/Function.java

\* /opt/ws\_local/PERMITS\_SQL/1084394563\_1598481158.67/0/exp4j-0-4-8-sources-1-jar/net/objecthunter/exp4j/Expression.java

\*

/opt/ws\_local/PERMITS\_SQL/1084394563\_1598481158.67/0/exp4j-0-4-8-sources-1-jar/net/objecthunter/exp4j/ExpressionBuilder.java

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# 1.367 java-driver-core 4.6.1

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jar/com/datastax/oss/driver/api/querybuilder/schema/AlterTableAddColumn.java
* /opt/ws_local/PERMITS_SQL/1085011854_1598862727.22/0/java-driver-query-builder-4-6-1-sources-
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/opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-jar/com/datastax/dse/driver/internal/querybuilder/schema/DseTableGraphOperationType.java

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/opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-jar/com/datastax/oss/driver/api/querybuilder/update/Update.java

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/opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-jar/com/datastax/oss/driver/internal/querybuilder/update/PrependAssignment.java

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/opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-jar/com/datastax/dse/driver/api/querybuilder/package-info.java

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jar/com/datastax/dse/driver/internal/querybuilder/schema/DefaultAlterDseTable.java  
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/opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/com/datastax/oss/driver/api/querybuilder/schema/AlterTableDropColumnEnd.java  
\* /opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/com/datastax/oss/driver/internal/querybuilder/select/ListSelector.java  
\* /opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/com/datastax/oss/driver/internal/querybuilder/update/AppendMapEntryAssignment.java  
\* /opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/com/datastax/oss/driver/internal/querybuilder/select/CastSelector.java  
\* /opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/com/datastax/oss/driver/api/querybuilder/relation/OngoingWhereClause.java  
\* /opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/com/datastax/oss/driver/api/querybuilder/insert/Insert.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/com/datastax/oss/driver/api/querybuilder/schema/CreateMaterializedViewSelectionWithColumns.java  
\* /opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/com/datastax/oss/driver/api/querybuilder/schema/AlterMaterializedViewStart.java  
\* /opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/com/datastax/oss/driver/internal/querybuilder/select/FunctionSelector.java  
\* /opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/com/datastax/oss/driver/api/querybuilder/relation/ColumnRelationBuilder.java  
\* /opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/com/datastax/oss/driver/internal/querybuilder/term/BinaryArithmeticTerm.java  
\* /opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/com/datastax/oss/driver/api/querybuilder/schema/CreateFunctionStart.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/com/datastax/oss/driver/api/querybuilder/schema/AlterTableRenameColumnEnd.java  
\* /opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/com/datastax/oss/driver/api/querybuilder/schema/CreateMaterializedViewSelection.java  
\* /opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/com/datastax/dse/driver/api/querybuilder/schema/AlterDseKeyspaceStart.java  
\* /opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/com/datastax/oss/driver/internal/querybuilder/select/DefaultBindMarker.java  
\* /opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/com/datastax/oss/driver/internal/querybuilder/relation/DefaultColumnRelationBuilder.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/com/datastax/dse/driver/api/querybuilder/schema/AlterDseTableDropColumnEnd.java  
\* /opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-

jar/com/datastax/oss/driver/internal/querybuilder/lhs/TokenLeftOperand.java  
\* /opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/com/datastax/oss/driver/api/querybuilder/schema/AlterTableAddColumnEnd.java  
\* /opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/com/datastax/oss/driver/api/querybuilder/update/UpdateWithAssignments.java  
\* /opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/com/datastax/oss/driver/api/querybuilder/QueryBuilder.java  
\* /opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/com/datastax/oss/driver/internal/querybuilder/select/BinaryArithmeticSelector.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/com/datastax/oss/driver/internal/querybuilder/term/TupleTerm.java  
\* /opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/com/datastax/oss/driver/api/querybuilder/schema/CreateFunctionWithType.java  
\* /opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/com/datastax/oss/driver/internal/querybuilder/CqlHelper.java  
\* /opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/com/datastax/oss/driver/internal/querybuilder/schema/DefaultCreateIndex.java  
\* /opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/com/datastax/oss/driver/api/querybuilder/schema/AlterMaterializedView.java  
\* /opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/com/datastax/dse/driver/internal/querybuilder/schema/DefaultDseGraphEdgeSide.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/com/datastax/oss/driver/internal/querybuilder/schema/DefaultAlterTable.java  
\* /opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/com/datastax/oss/driver/api/querybuilder/schema/KeyspaceReplicationOptions.java  
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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1085011854\_1598862727.22/0/java-driver-query-builder-4-6-1-sources-  
jar/META-INF/maven/com.datastax.oss/java-driver-query-builder/pom.xml



# 1.369 java-driver-shaded-guava 25.1-jre

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1085011861\_1598862657.64/0/datastax-java-driver-shaded-guava-25-1-jre-0-g763d526-tar-gz/datastax-java-driver-shaded-guava-c44412c/pom.xml

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Shaded Guava artifact, for use in the

[DataStax Java driver for Apache Cassandra«](<https://github.com/datastax/java-driver>).

We publish this as a separate artifact to avoid re-shading it in every driver version (and every module in each version). The build process creates a sources JAR with the relocated packages, but at this stage the javadocs JAR is empty.

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\* /opt/ws\_local/PERMITS\_SQL/1085011861\_1598862657.64/0/datastax-java-driver-shaded-guava-25-1-jre-0-  
g763d526-tar-gz/datastax-java-driver-shaded-guava-c44412c/README.md

## 1.370 regenerator-runtime 0.13.7

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## 1.371 viper 1.7.1

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## 1.372 parse-asn1 5.1.6

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## 1.373 create-ecdh 4.0.4

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## 1.374 tinymce 5.4.1

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## 1.375 bootstrap 4.5.2

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title: License FAQs

description: Commonly asked questions about Bootstrap's open source license.

group: about

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## 1.379 msx-dgrid 0.0.8

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\* /opt/ws\_local/PERMITS\_SQL/1086407919\_1599272271.82/0/sundr-codegen-0-21-0-sources-jar/io/sundr/codegen/model/AttributeSupportFluent.java  
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* /opt/ws_local/PERMITS_SQL/1086407919_1599272271.82/0/sundr-codegen-0-21-0-sources-
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* /opt/ws_local/PERMITS_SQL/1086407919_1599272271.82/0/sundr-codegen-0-21-0-sources-
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- \* /opt/ws\_local/PERMITS\_SQL/1086407919\_1599272271.82/0/sundr-codegen-0-21-0-sources-jar/io/sundr/codegen/generator/CodeGeneratorFluent.java
- \* /opt/ws\_local/PERMITS\_SQL/1086407919\_1599272271.82/0/sundr-codegen-0-21-0-sources-jar/io/sundr/codegen/processor/JavaGeneratingProcessor.java
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- /opt/ws\_local/PERMITS\_SQL/1086407919\_1599272271.82/0/sundr-codegen-0-21-0-sources-jar/io/sundr/codegen/generator/GeneratorUtils.java
- \* /opt/ws\_local/PERMITS\_SQL/1086407919\_1599272271.82/0/sundr-codegen-0-21-0-sources-jar/io/sundr/codegen/utils/StringUtils.java
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- \* /opt/ws\_local/PERMITS\_SQL/1086407919\_1599272271.82/0/sundr-codegen-0-21-0-sources-jar/io/sundr/codegen/model/AttributeSupport.java
- \* /opt/ws\_local/PERMITS\_SQL/1086407919\_1599272271.82/0/sundr-codegen-0-21-0-sources-jar/io/sundr/codegen/directives/FieldDirective.java
- \* /opt/ws\_local/PERMITS\_SQL/1086407919\_1599272271.82/0/sundr-codegen-0-21-0-sources-jar/io/sundr/codegen/generator/CodeGeneratorBuilder.java
- \* /opt/ws\_local/PERMITS\_SQL/1086407919\_1599272271.82/0/sundr-codegen-0-21-0-sources-jar/io/sundr/codegen/utils/ModelUtils.java
- \*
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- \* /opt/ws\_local/PERMITS\_SQL/1086407919\_1599272271.82/0/sundr-codegen-0-21-0-sources-jar/io/sundr/codegen/directives/MethodDirective.java
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# 1.386 javaparser-core 2.5.1

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* /opt/cola/permits/1092524939_1601878528.72/0/asm-util-8-0-1-sources-
jar/org/objectweb/asm/util/CheckSignatureAdapter.java
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jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /opt/cola/permits/1092524939_1601878528.72/0/asm-util-8-0-1-sources-
jar/org/objectweb/asm/util/TraceMethodVisitor.java
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jar/org/objectweb/asm/commons/SimpleRemapper.java
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jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
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jar/org/objectweb/asm/commons/AnalyzerAdapter.java
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/**
 * Constructs a new { @link SerialVersionUIDAdder}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the { @link #SerialVersionUIDAdder(int, ClassVisitor)}
 * version.
 *
 * @param classVisitor a { @link ClassVisitor} to which
 this visitor will delegate calls.
 * @throws IllegalStateException If a subclass calls this constructor.
 */
```

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/**
```

```
* Constructs a new { @link GeneratorAdapter}. <i>Subclasses must not use this constructor</i>.
 * Instead, they must use the { @link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.
 *
 * @param methodVisitor the method visitor
 to which this adapter delegates calls.
 * @param access the method's access flags (see { @link Opcodes}).
 * @param name the method's name.
 * @param descriptor the method's descriptor (see { @link Type}).
 * @throws IllegalStateException if a subclass calls this constructor.
 */
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/**
 * Constructs a new { @link LocalVariablesSorter}. <i>Subclasses must not use this constructor</i>.
 * Instead, they must use the { @link #LocalVariablesSorter(int, int, String, MethodVisitor)}
 * version.
 *
 * @param access access flags of the adapted
method.
 * @param descriptor the method's descriptor (see { @link Type}).
 * @param methodVisitor the method visitor to which this adapter delegates calls.
 * @throws IllegalStateException if a subclass calls this constructor.
 */

```

Found in path(s):

```

* /opt/cola/permits/1092522682_1601878538.99/0/asm-commons-8-0-1-sources-
jar/org/objectweb/asm/commons/LocalVariablesSorter.java

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## 1.395 asm-analysis 8.0.1

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```
* /opt/cola/permits/1092526418_1601878472.11/0/asm-analysis-8-0-1-sources-jar/org/objectweb/asm/tree/analysis/Value.java  
* /opt/cola/permits/1092526418_1601878472.11/0/asm-analysis-8-0-1-sources-jar/org/objectweb/asm/tree/analysis/SourceValue.java  
*  
/opt/cola/permits/1092526418_1601878472.11/0/asm-analysis-8-0-1-sources-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java  
* /opt/cola/permits/1092526418_1601878472.11/0/asm-analysis-8-0-1-sources-jar/org/objectweb/asm/tree/analysis/Subroutine.java  
* /opt/cola/permits/1092526418_1601878472.11/0/asm-analysis-8-0-1-sources-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java  
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* /opt/cola/permits/1092526418_1601878472.11/0/asm-analysis-8-0-1-sources-jar/org/objectweb/asm/tree/analysis/BasicValue.java  
* /opt/cola/permits/1092526418_1601878472.11/0/asm-analysis-8-0-1-sources-jar/org/objectweb/asm/tree/analysis/Interpreter.java
```

\*

/opt/cola/permits/1092526418\_1601878472.11/0/asm-analysis-8-0-1-sources-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java

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/\*\*

\* Constructs a new { @link SourceInterpreter} for the latest ASM API version. <i>Subclasses must

\* not use this constructor</i>. Instead, they must use the { @link #SourceInterpreter(int)}

\* version.

\*/

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\*/

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jar/org/objectweb/asm/tree/analysis/package.html

## 1.396 rcrowley-go-metrics v0.0.0-

## 20190826022208-cac0b30c2563

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# 1.397 netty 4.1.50.Final

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## 1.408 zipkin-reporter 2.15.0

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\* /opt/cola/permits/1096695478\_1601878594.77/0/zipkin-reporter-2-15-0-sources-jar/zipkin2/reporter/ClosedSenderException.java

```
* /opt/cola/permits/1096695478_1601878594.77/0/zipkin-reporter-2-15-0-sources-
jar/zipkin2/reporter/internal/InternalReporter.java
* /opt/cola/permits/1096695478_1601878594.77/0/zipkin-reporter-2-15-0-sources-jar/zipkin2/reporter/Sender.java
*
/opt/cola/permits/1096695478_1601878594.77/0/zipkin-reporter-2-15-0-sources-
jar/zipkin2/reporter/AsyncReporter.java
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Found in path(s):

```
* /opt/cola/permits/1096695478_1601878594.77/0/zipkin-reporter-2-15-0-sources-jar/META-
INF/maven/io.zipkin.reporter2/zipkin-reporter/pom.xml
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```
* /opt/cola/permits/1096695478_1601878594.77/0/zipkin-reporter-2-15-0-sources-
jar/zipkin2/reporter/BufferNextMessage.java
* /opt/cola/permits/1096695478_1601878594.77/0/zipkin-reporter-2-15-0-sources-
jar/zipkin2/reporter/InMemoryReporterMetrics.java
* /opt/cola/permits/1096695478_1601878594.77/0/zipkin-reporter-2-15-0-sources-
```

jar/zipkin2/reporter/ByteBoundedQueue.java

\*

/opt/cola/permits/1096695478\_1601878594.77/0/zipkin-reporter-2-15-0-sources-jar/zipkin2/reporter/Reporter.java

\* /opt/cola/permits/1096695478\_1601878594.77/0/zipkin-reporter-2-15-0-sources-jar/zipkin2/reporter/ReporterMetrics.java

\* /opt/cola/permits/1096695478\_1601878594.77/0/zipkin-reporter-2-15-0-sources-jar/zipkin2/reporter/BytesMessageEncoder.java

\* /opt/cola/permits/1096695478\_1601878594.77/0/zipkin-reporter-2-15-0-sources-jar/zipkin2/reporter/AwaitableCallback.java

# 1.409 instrumentation-servlet 5.12.3

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jar/com/stratio/cassandra/lucene/builder/search/condition/WildcardCondition.java
* /opt/cola/permits/1096695471_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-
jar/com/stratio/cassandra/lucene/builder/index/schema/analysis/SnowballAnalyzer.java
*
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* /opt/cola/permits/1096695471_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-
jar/com/stratio/cassandra/lucene/builder/index/schema/mapping/SingleColumnMapper.java
* /opt/cola/permits/1096695471_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-

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jar/com/stratio/cassandra/lucene/builder/index/schema/mapping/IntegerMapper.java  
 \*  
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 \* /opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-  
 jar/com/stratio/cassandra/lucene/builder/search/condition/Condition.java  
 \* /opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-  
 jar/com/stratio/cassandra/lucene/builder/search/condition/DateRangeCondition.java  
 \* /opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-  
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 \* /opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-  
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 jar/com/stratio/cassandra/lucene/builder/common/GeoTransformation.java  
 \* /opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-  
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 \* /opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-  
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 \* /opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-  
 jar/com/stratio/cassandra/lucene/builder/index/schema/mapping/DateMapper.java  
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 \* /opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-

jar/com/stratio/cassandra/lucene/builder/index/schema/mapping/TextMapper.java  
\* /opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-  
jar/com/stratio/cassandra/lucene/builder/index/Partitioner.java  
\*  
/opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-  
jar/com/stratio/cassandra/lucene/builder/common/GeoShape.java  
\* /opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-  
jar/com/stratio/cassandra/lucene/builder/index/schema/mapping/Mapper.java  
\* /opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-  
jar/com/stratio/cassandra/lucene/builder/search/Search.java  
\* /opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-  
jar/com/stratio/cassandra/lucene/builder/index/schema/mapping/UUIDMapper.java  
\* /opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-  
jar/com/stratio/cassandra/lucene/builder/index/schema/mapping/BlobMapper.java  
\* /opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-  
jar/com/stratio/cassandra/lucene/builder/search/condition/BooleanCondition.java  
\*  
/opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-  
jar/com/stratio/cassandra/lucene/builder/index/schema/mapping/GeoShapeMapper.java  
\* /opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-  
jar/com/stratio/cassandra/lucene/builder/search/sort/Sort.java  
\* /opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-  
jar/com/stratio/cassandra/lucene/builder/search/condition/PhraseCondition.java  
\* /opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-  
jar/com/stratio/cassandra/lucene/builder/search/condition/FuzzyCondition.java  
\* /opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-  
jar/com/stratio/cassandra/lucene/builder/index/schema/mapping/StringMapper.java  
\* /opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-  
jar/com/stratio/cassandra/lucene/builder/search/condition/MatchCondition.java  
\*  
/opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-  
jar/com/stratio/cassandra/lucene/builder/index/schema/mapping/FloatMapper.java  
\* /opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-  
jar/com/stratio/cassandra/lucene/builder/index/Index.java  
\* /opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-  
jar/com/stratio/cassandra/lucene/builder/search/condition/RangeCondition.java  
\* /opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-  
jar/com/stratio/cassandra/lucene/builder/search/sort/SimpleSortField.java  
\* /opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-  
jar/com/stratio/cassandra/lucene/builder/BuilderException.java  
\* /opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-  
jar/com/stratio/cassandra/lucene/builder/search/sort/GeoDistanceSortField.java  
\*  
/opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-  
jar/com/stratio/cassandra/lucene/builder/search/condition/BitemporalCondition.java  
\* /opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-  
jar/com/stratio/cassandra/lucene/builder/index/schema/analysis/ClasspathAnalyzer.java  
\* /opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-

jar/com/stratio/cassandra/lucene/builder/index/schema/Schema.java  
\* /opt/cola/permits/1096695471\_1601878543.71/0/cassandra-lucene-index-builder-3-11-3-0-sources-jar/com/stratio/cassandra/lucene/builder/index/schema/mapping/DateRangeMapper.java

## 1.411 zipkin-sender-activemq-client 2.15.0

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Manifest-Version: 1.0  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk-Spec: 13  
Automatic-Module-Name: zipkin2.reporter.activemq  
Bnd-LastModified: 1589702730253  
Build-Jdk: 13.0.2  
Built-By: travis  
Bundle-Description: Zipkin Reporter (Parent)  
Bundle-DocURL: <https://zipkin.io/>  
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.txt>  
Bundle-ManifestVersion: 2  
Bundle-Name: Zipkin Sender: ActiveMQ Client 5.15.x  
Bundle-SymbolicName: io.zipkin.reporter2.zipkin-sender-activemq-client  
Bundle-Vendor: OpenZipkin  
Bundle-Version: 2.15.0  
Export-Package: zipkin2.reporter.activemq;version="2.15.0";uses="org.apache.activemq,zipkin2,zipkin2.codec,zipkin2.reporter"  
Import-Package: javax.jms;version="[1.1,2)",org.apache.activemq;version="[5.15,6)",org.apache.activemq.transport;version="[5.15,6)",zipkin2;version="[2.21,3)",zipkin2.codec;version="[2.21,3)",zipkin2.reporter;version="[2.15,3)"  
Originally-Created-By:  
Apache Maven Bundle Plugin  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"  
Tool: Bnd-4.2.0.201903051501

Found in path(s):

\* /opt/cola/permits/1096695429\_1601878598.88/0/zipkin-sender-activemq-client-2-15-0-jar/META-INF/MANIFEST.MF

## 1.412 brave-instrumentation-messaging

### 5.12.3

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# 1.415 zipkin-reporter-metrics-micrometer

## 2.15.0

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Manifest-Version: 1.0  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk-Spec: 13  
Automatic-Module-Name: zipkin2.reporter.metrics.micrometer  
Bnd-LastModified: 1589702936955  
Build-Jdk: 13.0.2  
Built-By: travis  
Bundle-Description: Zipkin Reporter (Parent)  
Bundle-DocURL: <https://zipkin.io/>  
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.txt>  
Bundle-ManifestVersion: 2  
Bundle-Name: Zipkin Reporter Metrics by Micrometer  
Bundle-SymbolicName: io.zipkin.reporter2.zipkin-reporter-metrics-micrometer  
Bundle-Vendor: OpenZipkin  
Bundle-Version: 2.15.0  
Export-Package: zipkin2.reporter.metrics.micrometer;version="2.15.0";uses:="io.micrometer.core.instrument,zipkin2.reporter"  
Import-Package: io.micrometer.core.instrument,zipkin2.reporter;version="[2.15,3)"  
Originally-Created-By: Apache Maven Bundle Plugin  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-4.2.0.201903051501

Found

in path(s):

\* /opt/cola/permits/1096695463\_1601878587.59/0/zipkin-reporter-metrics-micrometer-2-15-0-jar/META-INF/MANIFEST.MF

# 1.416 zipkin-reporter-brave 2.15.0

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\* /opt/cola/permits/1096695449\_1601878448.74/0/zipkin-reporter-brave-2-15-0-sources-jar/META-INF/maven/io.zipkin.reporter2/zipkin-reporter-brave/pom.xml

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\* /opt/cola/permits/1096695449\_1601878448.74/0/zipkin-reporter-brave-2-15-0-sources-jar/zipkin2/reporter/brave/JsonV2Encoder.java

\* /opt/cola/permits/1096695449\_1601878448.74/0/zipkin-reporter-brave-2-15-0-sources-jar/zipkin2/reporter/brave/ZipkinSpanHandler.java

\* /opt/cola/permits/1096695449\_1601878448.74/0/zipkin-reporter-brave-2-15-0-sources-jar/zipkin2/reporter/brave/ConvertingSpanReporter.java

\*

/opt/cola/permits/1096695449\_1601878448.74/0/zipkin-reporter-brave-2-15-0-sources-jar/zipkin2/reporter/brave/AsyncZipkinSpanHandler.java

\* /opt/cola/permits/1096695449\_1601878448.74/0/zipkin-reporter-brave-2-15-0-sources-jar/zipkin2/reporter/brave/ConvertingZipkinSpanHandler.java

## 1.417 model-mapper 2.3.8

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# 1.418 spring-cloud-stream-binder-kafka

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# 1.422 spring-cloud-starter-zipkin

## 2.2.3.RELEASE

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```
jar/org/springframework/cloud/stream/config/BindingBeansRegistrar.java
*
/opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/converter/CompositeMessageConverterFactory.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/binder/BinderHeaders.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/provisioning/ConsumerDestination.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/provisioning/ProvisioningException.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/provisioning/ProvisioningProvider.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/annotation/Input.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/config/ChannelsEndpointAutoConfiguration.java
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/opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/config/ChannelBindingAutoConfiguration.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
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* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/micrometer/ApplicationMetricsProperties.java
*
/opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/converter/ObjectStringMessageConverter.java
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* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/annotation/EnableBinding.java
*
/opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/binder/BinderFactory.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/binding/MessageChannelConfigurer.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/binding/BindingService.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/binder/BinderType.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/messaging/Sink.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/messaging/Processor.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/binder/BindingCleaner.java
*
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jar/org/springframework/cloud/stream/config/BinderFactoryAutoConfiguration.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/binding/ContextStartAfterRefreshListener.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/binding/BindingBeanDefinitionRegistryUtils.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/binder/DefaultBinderTypeRegistry.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
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jar/org/springframework/cloud/stream/converter/ConversionException.java  
\* /opt/cola/permits/1096695203\_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-  
jar/org/springframework/cloud/stream/binding/BoundTargetHolder.java  
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jar/org/springframework/cloud/stream/annotation/StreamRetryTemplate.java  
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jar/org/springframework/cloud/stream/micrometer/DefaultDestinationPublishingMeterRegistry.java  
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jar/org/springframework/cloud/stream/binder/AbstractExtendedBindingProperties.java  
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jar/org/springframework/cloud/stream/micrometer/Metric.java  
\* /opt/cola/permits/1096695203\_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-  
jar/org/springframework/cloud/stream/binder/BindingCreatedEvent.java  
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jar/org/springframework/cloud/stream/binder/BinderSpecificPropertiesProvider.java  
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jar/org/springframework/cloud/stream/binder/PollableSource.java  
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jar/org/springframework/cloud/stream/config/BindingHandlerAdvise.java  
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jar/org/springframework/cloud/stream/micrometer/DestinationPublishingMetricsAutoConfiguration.java  
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jar/org/springframework/cloud/stream/binder/PollableConsumerBinder.java  
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jar/org/springframework/cloud/stream/micrometer/MetricsPublisherConfig.java  
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jar/org/springframework/cloud/stream/config/MessageSourceCustomizer.java  
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* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/binding/SubscribableChannelBindingTargetFactory.java
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* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
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* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
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* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
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*
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* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/config/BindingProperties.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/binding/Bindable.java
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\* /opt/cola/permits/1096695203\_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-jar/org/springframework/cloud/stream/binding/MessageConverterConfigurer.java  
\*

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\*

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\* /opt/cola/permits/1096695203\_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-jar/org/springframework/cloud/stream/binder/HeaderMode.java  
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\* /opt/cola/permits/1096695203\_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-jar/org/springframework/cloud/stream/binding/StreamListenerMethodUtils.java  
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\* /opt/cola/permits/1096695203\_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-jar/org/springframework/cloud/stream/binding/StreamListenerAnnotationBeanPostProcessor.java  
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\* /opt/cola/permits/1096695203\_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-jar/org/springframework/cloud/stream/binding/AbstractBindingTargetFactory.java

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jar/org/springframework/cloud/stream/binder/LastSubscriberAwareChannel.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/config/BindersHealthIndicatorAutoConfiguration.java
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* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
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* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/binding/AbstractBindingLifecycle.java
* /opt/cola/permits/1096695203_1601878487.5/0/spring-cloud-stream-3-0-6-release-sources-
jar/org/springframework/cloud/stream/binding/DispatchingStreamListenerMessageHandler.java
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## 1.425 brave 5.12.3



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### 5.12.3

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Eclipse

The following artifacts are EPL.

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

The following artifacts are EPL and ASL2.

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

The following artifacts are EPL and CDDL 1.0.

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

-----  
Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

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

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

-----

## Oracle OpenJDK

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

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

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

-----

## OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

-----

## Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

-----

## MortBay

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

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

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

-----

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

-----

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.428 zipkin-sender-kafka 2.15.0

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Manifest-Version: 1.0

Created-By: Apache Maven Bundle Plugin

Build-Jdk-Spec: 13

Automatic-Module-Name: zipkin2.reporter.kafka

Bnd-LastModified: 1589702632723

Build-Jdk: 13.0.2

Built-By: travis

Bundle-Description: Zipkin Reporter (Parent)

Bundle-DocURL: <https://zipkin.io/>

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-ManifestVersion: 2

Bundle-Name: Zipkin Sender: Kafka 0.11+

Bundle-SymbolicName: io.zipkin.reporter2.zipkin-sender-kafka

Bundle-Vendor: OpenZipkin

Bundle-Version: 2.15.0  
Export-Package: zipkin2.reporter.kafka;version="2.15.0";uses:="zipkin2,zipkin2.codec,zipkin2.reporter"  
Import-Package: org.apache.kafka.clients.admin,org.apache.kafka.clients.producer,org.apache.kafka.common,org.apache.kafka.common.serialization,zipkin2;version="[2.21,3)",zipkin2.codec;version="[2.21,3)",zipkin2.reporter;version="[2.15,3)"  
Originally-Created-By: Apache Maven Bundle Plugin  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"  
Tool: Bnd-4.2.0.201903051501

Found in path(s):

\* /opt/cola/permits/1096695414\_1601878593.29/0/zipkin-sender-kafka-2-15-0-jar/META-INF/MANIFEST.MF

# 1.429 brave-instrumentation-servlet 5.12.3

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```

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```
* /opt/cola/permits/1096695238_1607389277.55/0/zipkin-2-21-1-sources-  
jar/zipkin2/storage/InMemoryStorage.java  
* /opt/cola/permits/1096695238_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/internal/TracesAdapter.java
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\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/META-INF/maven/io.zipkin.zipkin2/zipkin/pom.xml

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\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/internal/DateUtil.java

\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/Span.java

\*

/opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/codec/BytesEncoder.java

\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/internal/ThriftEndpointCodec.java

\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/storage/SpanStore.java

\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/storage/QueryRequest.java

\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/Callback.java

\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/internal/V2SpanWriter.java

\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/internal/JsonEscaper.java

\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/internal/WriteBuffer.java

\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/storage/ForwardingStorageComponent.java

\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/codec/SpanBytesEncoder.java

\*

/opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/storage/Traces.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/storage/SpanConsumer.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/internal/ThriftField.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/v1/V2SpanConverter.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/internal/Proto3SpanWriter.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/Component.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/internal/V1SpanWriter.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/internal/Nullable.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/internal/JsonCodec.java  
\*  
/opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/Endpoint.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/storage/StorageComponent.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/internal/ReadBuffer.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/internal/V1ThriftSpanWriter.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/internal/Proto3Codec.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/storage/StrictTraceId.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/storage/ServiceAndSpanNames.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/DependencyLink.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/v1/V1Annotation.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/CheckResult.java  
\*  
/opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/internal/FilterTraces.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/internal/Trace.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/storage/AutocompleteTags.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/internal/Platform.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/internal/HexCodec.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/internal/Dependencies.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/Annotation.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/internal/V1ThriftSpanReader.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/internal/SpanNode.java  
\*  
/opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/internal/V1JsonSpanReader.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/codec/BytesDecoder.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/v1/V1BinaryAnnotation.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/codec/SpanBytesDecoder.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/internal/AggregateCall.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/v1/V1SpanConverter.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/Call.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/internal/Proto3Fields.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/internal/DelayLimiter.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-

jar/zipkin2/SpanBytesDecoderDetector.java  
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/opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/internal/V2SpanReader.java  
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jar/zipkin2/internal/Proto3ZipkinFields.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/codec/Encoding.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/v1/V1Span.java  
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jar/zipkin2/codec/DependencyLinkBytesEncoder.java  
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jar/zipkin2/internal/V1JsonSpanWriter.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-  
jar/zipkin2/internal/DependencyLinker.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/internal/ThriftCodec.java  
\* /opt/cola/permits/1096695238\_1607389277.55/0/zipkin-2-21-1-sources-jar/zipkin2/storage/GroupByTraceId.java

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### 2.2.3.RELEASE

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jar/org/springframework/cloud/sleuth/zipkin2/ZipkinRestTemplateCustomizer.java
* /opt/cola/permits/1096695323_1601878506.89/0/spring-cloud-sleuth-zipkin-2-2-3-release-sources-
jar/org/springframework/cloud/sleuth/zipkin2/DefaultZipkinRestTemplateCustomizer.java
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jar/org/springframework/cloud/sleuth/zipkin2/sender/ZipkinKafkaSenderConfiguration.java
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jar/org/springframework/cloud/sleuth/zipkin2/ZipkinProperties.java  
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jar/org/springframework/cloud/sleuth/zipkin2/DefaultEndpointLocator.java  
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jar/org/springframework/cloud/sleuth/zipkin2/sender/ZipkinRabbitSenderConfiguration.java  
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jar/org/springframework/cloud/sleuth/zipkin2/sender/ZipkinSenderCondition.java  
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# 1.434 spring-cloud-sleuth-core

## 2.2.3.RELEASE

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Found in path(s):

\* /opt/cola/permits/1096695280\_1601878541.9/0/spring-cloud-sleuth-core-2-2-3-release-jar/META-INF/maven/org.springframework.cloud/spring-cloud-sleuth-core/pom.xml

# 1.435 brave-instrumentation-spring-rabbit

## 5.12.3

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## 1.436 zipkin 2.21.1

### 1.436.1 Available under license :

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Manifest-Version: 1.0  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk-Spec: 13  
Automatic-Module-Name: zipkin2  
Bnd-LastModified: 1586931162540  
Build-Jdk: 13.0.2  
Built-By: travis  
Bundle-Description: Zipkin (Parent)  
Bundle-DocURL: <http://zipkin.io/>  
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>  
Bundle-ManifestVersion: 2  
Bundle-Name: Zipkin Core Library  
Bundle-SymbolicName: io.zipkin.zipkin2.zipkin



Bundle-Vendor: OpenZipkin  
Bundle-Version: 2.21.1  
Export-Package: zipkin2;version="2.21.1";uses:="zipkin2.codec,zipkin2.in  
ternal",zipkin2.codec;version="2.21.1";uses:="zipkin2,zipkin2.internal"  
,zipkin2.storage;version="2.21.1";uses:="zipkin2,zipkin2.internal",zipk  
in2.v1;version="2.21.1";uses:="zipkin2,zipkin2.internal",zipkin2.intern  
al;zipkin2internal=true;mandatory:=zipkin2internal;version="2.21.1";use  
s:="zipkin2,zipkin2.storage,zipkin2.v1"  
Import-Package: zipkin2;version="[2.21,3)",zipkin2.codec;version="[2.21,  
3)",zipkin2.internal;version="[2.21,3)";zipkin2internal=true,zipkin2.st  
orage;version="[2.21,3)",zipkin2.v1;version="[2.21,3)"  
Originally-Created-By: Apache Maven Bundle Plugin  
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-4.2.0.201903051501

Found in path(s):

\* /opt/cola/permits/1096695204\_1601878596.36/0/zipkin-2-21-1-jar/META-INF/MANIFEST.MF

## 1.437 zipkin-sender-amqp-client 2.15.0

### 1.437.1 Available under license :

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Manifest-Version: 1.0  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk-Spec: 13  
Automatic-Module-Name: zipkin2.reporter.amqp  
Bnd-LastModified: 1589702698496  
Build-Jdk: 13.0.2  
Built-By: travis  
Bundle-Description: Zipkin Reporter (Parent)  
Bundle-DocURL: <https://zipkin.io/>  
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.txt>  
Bundle-ManifestVersion: 2  
Bundle-Name: Zipkin Sender: RabbitMQ AMQP Client 4.x  
Bundle-SymbolicName: io.zipkin.reporter2.zipkin-sender-amqp-client  
Bundle-Vendor: OpenZipkin  
Bundle-Version: 2.15.0  
Export-Package: zipkin2.reporter.amqp;version="2.15.0";uses:="com.rabbit  
mq.client,zipkin2,zipkin2.codec,zipkin2.reporter"  
Import-Package: com.rabbitmq.client;version="[4.11,5)",zipkin2;version=""  
[2.21,3)",zipkin2.codec;version="[2.21,3)",zipkin2.reporter;version="[2  
.15,3)"  
Originally-Created-By: Apache Maven Bundle Plugin  
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"  
Tool:

Bnd-4.2.0.201903051501

Found in path(s):

\* /opt/cola/permits/1096695372\_1601878509.68/0/zipkin-sender-amqp-client-2-15-0-jar/META-INF/MANIFEST.MF

# 1.438 flyway-core 6.5.4

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Found in path(s):

\* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-jar/META-INF/maven/org.flywaydb/flyway-core/pom.xml

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Found in path(s):

- \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-jar/org/flywaydb/core/internal/database/derby/DerbySchema.java
- \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-jar/org/flywaydb/core/internal/jdbc/DriverDataSource.java
- \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-jar/org/flywaydb/core/internal/util/IOUtils.java
- \*
- /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-jar/org/flywaydb/core/api/callback/Event.java
- \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-jar/org/flywaydb/core/internal/license/package-info.java
- \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-jar/org/flywaydb/core/internal/database/sqlite/SQLiteSchema.java
- \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-jar/org/flywaydb/core/internal/resolver/sql/SqlMigrationExecutor.java
- \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-jar/org/flywaydb/core/internal/command/DbInfo.java
- \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-jar/org/flywaydb/core/api/logging/Log.java
- \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-jar/org/flywaydb/core/api/android/ContextHolder.java
- \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-jar/org/flywaydb/core/internal/database/cockroachdb/CockroachDBTable.java
- \*
- /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-jar/org/flywaydb/core/internal/sqlscript/SqlScriptExecutor.java
- \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-jar/org/flywaydb/core/internal/license/VersionPrinter.java
- \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-jar/org/flywaydb/core/internal/database/DatabaseFactory.java
- \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-jar/org/flywaydb/core/internal/sqlscript/SqlScriptFactory.java
- \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-jar/org/flywaydb/core/internal/jdbc/CockroachRetryingTransactionalExecutionTemplate.java
- \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-jar/org/flywaydb/core/internal/resolver/java/ResolvedJavaMigration.java
- \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-jar/org/flywaydb/core/internal/scanner/classpath/jboss/package-info.java
- \*
- /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-jar/org/flywaydb/core/internal/configuration/ConfigUtils.java
- \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-jar/org/flywaydb/core/internal/parser/ParserContext.java
- \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-jar/org/flywaydb/core/internal/parser/PeekingReader.java
- \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-jar/org/flywaydb/core/internal/schemahistory/AppliedMigration.java

\* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/jdbc/JdbcTemplate.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/util/UrlUtils.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/api/resolver/Context.java  
 \*  
 /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/api/resolver/MigrationResolver.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/resource/ResourceName.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/database/derby/DerbyParser.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/resource/NoopResourceProvider.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/database/sybasease/SybaseASEParser.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/database/sqlserver/SQLServerParser.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/logging/slf4j/Slf4jLog.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/license/FlywayProUpgradeRequiredException.java  
 \*  
 /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/resource/ResourceNameParser.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/api/callback/Statement.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/api/configuration/package-info.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/database/derby/package-info.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/database/snowflake/SnowflakeConnection.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/scanner/filesystem/FileSystemScanner.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/database/firebird/FirebirdParser.java  
 \*  
 /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/sqlscript/ParserSqlScript.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/database/hsqldb/HSQLDBSchema.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/jdbc/TableLockingExecutionTemplate.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/exception/FlywaySqlException.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-

jar/org/flywaydb/core/internal/resource/Resource.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/database/redshift/package-info.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
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 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-jar/org/flywaydb/core/internal/database/db2/DB2Table.java  
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 /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-jar/org/flywaydb/core/internal/database/oracle/OracleParser.java  
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jar/org/flywaydb/core/api/MigrationInfo.java
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\* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-jar/org/flywaydb/core/internal/database/oracle/package-info.java  
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 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/database/informix/InformixDatabase.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/api/ErrorCode.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/resolver/ResolvedMigrationComparator.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/util/ClassUtils.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/clazz/NoopClassProvider.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/resource/android/AndroidResource.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/output/InfoOutputFactory.java  
 \*  
 /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/database/hsqldb/HSQLDBDatabase.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/database/redshift/RedshiftDatabase.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/api/resolver/ChecksumMatcher.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/database/saphana/SAPHANATable.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/parser/Parser.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/resolver/package-info.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/database/postgresql/PostgreSQLCopyParsedStatement.java  
 \*  
 /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/api/InfoOutputProvider.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/resolver/java/package-info.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
 jar/org/flywaydb/core/internal/database/sqlite/SQLiteTable.java  
 \* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-



jar/org/flywaydb/core/internal/util/FeatureDetector.java  
\* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
jar/org/flywaydb/core/internal/jdbc/ExecutionTemplate.java  
\* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
jar/org/flywaydb/core/internal/logging/apachecommons/ApacheCommonsLogCreator.java  
\* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
jar/org/flywaydb/core/internal/output/package-info.java  
\* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
jar/org/flywaydb/core/internal/database/redshift/RedshiftType.java  
\*  
/opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
jar/org/flywaydb/core/internal/database/snowflake/SnowflakeDatabase.java  
\* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
jar/org/flywaydb/core/internal/database/base/package-info.java  
\* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
jar/org/flywaydb/core/internal/output/MigrationOutput.java  
\* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
jar/org/flywaydb/core/internal/database/mysql/MySQLDatabase.java  
\* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
jar/org/flywaydb/core/internal/resolver/ChecksumCalculator.java  
\* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
jar/org/flywaydb/core/internal/command/DbMigrate.java  
\* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
jar/org/flywaydb/core/internal/jdbc/RowMapper.java  
\*  
/opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
jar/org/flywaydb/core/internal/callback/NoopCallbackExecutor.java  
\* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
jar/org/flywaydb/core/internal/database/oracle/OracleTable.java  
\* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
jar/org/flywaydb/core/internal/logging/slf4j/Slf4jLogCreator.java  
\* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
jar/org/flywaydb/core/api/callback/BaseCallback.java  
\* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
jar/org/flywaydb/core/internal/scanner/Scanner.java  
\* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
jar/org/flywaydb/core/internal/database/db2/DB2Parser.java  
\* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
jar/org/flywaydb/core/internal/database/DefaultExecutionStrategy.java  
\*  
/opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
jar/org/flywaydb/core/internal/database/db2/DB2Database.java  
\* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
jar/org/flywaydb/core/internal/resource/ResourceType.java  
\* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
jar/org/flywaydb/core/internal/database/oracle/OracleResults.java  
\* /opt/cola/permits/1096705211\_1601879956.11/0/flyway-core-6-5-4-sources-  
jar/org/flywaydb/core/internal/database/derby/DerbyTable.java

# 1.439 netty-transport-native-kqueue

## 4.1.50.Final

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Found in path(s):

```
* /opt/cola/permits/1096705909_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-jar/META-INF/maven/io.netty/netty-transport-native-kqueue/pom.xml
```

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```

Found in path(s):

```
* /opt/cola/permits/1096705909_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-jar/io.netty/channel/kqueue/KQueueRecvByteAllocatorHandle.java
```

```

* /opt/cola/permits/1096705909_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-
jar/netty_kqueue_eventarray.h
*
/opt/cola/permits/1096705909_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-
jar/io/netty/channel/kqueue/KQueueEventArray.java
* /opt/cola/permits/1096705909_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-
jar/io/netty/channel/kqueue/KQueueChannelOption.java
* /opt/cola/permits/1096705909_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-
jar/netty_kqueue_eventarray.c
* /opt/cola/permits/1096705909_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-
jar/io/netty/channel/kqueue/KQueue.java
* /opt/cola/permits/1096705909_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-
jar/io/netty/channel/kqueue/KQueueServerDomainSocketChannel.java
* /opt/cola/permits/1096705909_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-
jar/io/netty/channel/kqueue/KQueueServerChannelConfig.java
* /opt/cola/permits/1096705909_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-
jar/io/netty/channel/kqueue/AcceptFilter.java
*
/opt/cola/permits/1096705909_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-
jar/netty_kqueue_native.c
* /opt/cola/permits/1096705909_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-
jar/io/netty/channel/kqueue/KQueueEventLoop.java
* /opt/cola/permits/1096705909_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-
jar/io/netty/channel/kqueue/Native.java
* /opt/cola/permits/1096705909_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-
jar/io/netty/channel/kqueue/KQueueDomainSocketChannel.java
* /opt/cola/permits/1096705909_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-
jar/io/netty/channel/kqueue/KQueueServerSocketChannel.java
* /opt/cola/permits/1096705909_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-
jar/io/netty/channel/kqueue/KQueueDomainSocketChannelConfig.java
* /opt/cola/permits/1096705909_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-
jar/io/netty/channel/kqueue/KQueueDatagramChannelConfig.java
*
/opt/cola/permits/1096705909_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-
jar/io/netty/channel/kqueue/AbstractKQueueStreamChannel.java
* /opt/cola/permits/1096705909_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-
jar/io/netty/channel/kqueue/KQueueDatagramChannel.java
* /opt/cola/permits/1096705909_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-
jar/io/netty/channel/kqueue/NativeLongArray.java
* /opt/cola/permits/1096705909_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-
jar/io/netty/channel/kqueue/AbstractKQueueServerChannel.java
* /opt/cola/permits/1096705909_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-
jar/io/netty/channel/kqueue/KQueueChannelConfig.java
* /opt/cola/permits/1096705909_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-
jar/io/netty/channel/kqueue/package-info.java
*
/opt/cola/permits/1096705909_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-
jar/io/netty/channel/kqueue/AbstractKQueueChannel.java

```

\* /opt/cola/permits/1096705909\_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-jar/io/netty/channel/kqueue/KQueueSocketChannelConfig.java  
\* /opt/cola/permits/1096705909\_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-jar/io/netty/channel/kqueue/KQueueServerSocketChannelConfig.java  
\* /opt/cola/permits/1096705909\_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-jar/io/netty/channel/kqueue/KQueueStaticallyReferencedJniMethods.java  
\* /opt/cola/permits/1096705909\_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-jar/io/netty/channel/kqueue/KQueueSocketChannel.java  
\* /opt/cola/permits/1096705909\_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-jar/io/netty/channel/kqueue/BsdSocket.java  
\* /opt/cola/permits/1096705909\_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-jar/netty\_kqueue\_bsdsocket.c  
\*  
/opt/cola/permits/1096705909\_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-jar/io/netty/channel/kqueue/KQueueEventLoopGroup.java  
\* /opt/cola/permits/1096705909\_1601880026.03/0/netty-transport-native-kqueue-4-1-50-final-sources-jar/netty\_kqueue\_bsdsocket.h

# 1.440 jackson-datatype-json 2.11.0

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# 1.441 rank-eval-client 6.8.11

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## 1.454 lucene 7.7.3

1a0d2a901dfec93676b0fe8be425101ceb754b8

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\* /opt/cola/permits/1097979485\_1602212177.99/0/hdrhistogram-2-1-12-1-jar/META-INF/maven/org.hdrhistogram/HdrHistogram/pom.xml

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Manifest-Version: 1.0

Bnd-LastModified: 1575980548657

Build-Jdk: 1.8.0\_232

Built-By: gil

Bundle-Description: HdrHistogram supports the recording and analyzing sampled data value counts across a configurable integer value range with configurable value precision within the range. Value precision is expressed as the number of significant digits in the value recording, and provides control over value quantization behavior across the value range and the subsequent value resolution

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Bundle-ManifestVersion: 2

Bundle-Name: HdrHistogram

Bundle-SymbolicName: org.hdrhistogram.HdrHistogram

Bundle-Version: 2.1.12

Created-By: Apache Maven Bundle Plugin

Export-Package: org.HdrHistogram;version="2.1.12",org.HdrHistogram.packedarray;version="2.1.12"

Implementation-Title:

HdrHistogram

Implementation-Vendor-Id: org.hdrhistogram

Implementation-Version: 2.1.12

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

Specification-Title: HdrHistogram

Specification-Version: 2.1.12

Tool: Bnd-2.3.0.201405100607

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\* /opt/cola/permits/1097979485\_1602212177.99/0/hdrhistogram-2-1-12-1-jar/META-INF/MANIFEST.MF

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\* /opt/cola/permits/1097982284\_1602212316.23/0/hikaricp-3-4-5-sources-1-

jar/com/zaxxer/hikari/pool/ProxyResultSet.java

\* /opt/cola/permits/1097982284\_1602212316.23/0/hikaricp-3-4-5-sources-1-

```
jar/com/zaxxer/hikari/pool/ProxyLeakTaskFactory.java
* /opt/cola/permits/1097982284_1602212316.23/0/hikaricp-3-4-5-sources-1-
jar/com/zaxxer/hikari/pool/ProxyConnection.java
*
/opt/cola/permits/1097982284_1602212316.23/0/hikaricp-3-4-5-sources-1-
jar/com/zaxxer/hikari/util/JavassistProxyFactory.java
* /opt/cola/permits/1097982284_1602212316.23/0/hikaricp-3-4-5-sources-1-jar/com/zaxxer/hikari/util/FastList.java
* /opt/cola/permits/1097982284_1602212316.23/0/hikaricp-3-4-5-sources-1-
jar/com/zaxxer/hikari/util/DriverDataSource.java
* /opt/cola/permits/1097982284_1602212316.23/0/hikaricp-3-4-5-sources-1-
jar/com/zaxxer/hikari/metrics/prometheus/HikariCPCollector.java
* /opt/cola/permits/1097982284_1602212316.23/0/hikaricp-3-4-5-sources-1-
jar/com/zaxxer/hikari/pool/ProxyLeakTask.java
* /opt/cola/permits/1097982284_1602212316.23/0/hikaricp-3-4-5-sources-1-
jar/com/zaxxer/hikari/HikariConfig.java
* /opt/cola/permits/1097982284_1602212316.23/0/hikaricp-3-4-5-sources-1-
jar/com/zaxxer/hikari/pool/ProxyFactory.java
* /opt/cola/permits/1097982284_1602212316.23/0/hikaricp-3-4-5-sources-1-
jar/com/zaxxer/hikari/util/SuspendResumeLock.java
*
/opt/cola/permits/1097982284_1602212316.23/0/hikaricp-3-4-5-sources-1-
jar/com/zaxxer/hikari/util/ConcurrentBag.java
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\* /opt/cola/permits/1097982284\_1602212316.23/0/hikaricp-3-4-5-sources-1-  
jar/com/zaxxer/hikari/pool/HikariPool.java  
\* /opt/cola/permits/1097982284\_1602212316.23/0/hikaricp-3-4-5-sources-1-  
jar/com/zaxxer/hikari/metrics/MetricsTrackerFactory.java  
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jar/com/zaxxer/hikari/HikariJNDIFactory.java  
\* /opt/cola/permits/1097982284\_1602212316.23/0/hikaricp-3-4-5-sources-1-  
jar/com/zaxxer/hikari/metrics/dropwizard/CodaHaleMetricsTracker.java  
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\* /opt/cola/permits/1097982284\_1602212316.23/0/hikaricp-3-4-5-sources-1-  
jar/com/zaxxer/hikari/metrics/prometheus/PrometheusHistogramMetricsTrackerFactory.java  
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*/opt/cola/permits/1097982284_1602212316.23/0/hikaricp-3-4-5-sources-1-
jar/com/zaxxer/hikari/util/IsolationLevel.java
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jar/com/zaxxer/hikari/metrics/IMetricsTracker.java
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\* /opt/cola/permits/1097982284\_1602212316.23/0/hikaricp-3-4-5-sources-1-jar/com/zaxxer/hikari/util/PropertyElf.java  
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\* /opt/cola/permits/1097982284\_1602212316.23/0/hikaricp-3-4-5-sources-1-jar/com/zaxxer/hikari/HikariConfigMXBean.java  
\* /opt/cola/permits/1097982284\_1602212316.23/0/hikaricp-3-4-5-sources-1-jar/com/zaxxer/hikari/hibernate/HikariConnectionProvider.java  
\* /opt/cola/permits/1097982284\_1602212316.23/0/hikaricp-3-4-5-sources-1-jar/com/zaxxer/hikari/metrics/dropwizard/CodahaleMetricsTrackerFactory.java  
\* /opt/cola/permits/1097982284\_1602212316.23/0/hikaricp-3-4-5-sources-1-jar/com/zaxxer/hikari/metrics/prometheus/PrometheusMetricsTracker.java  
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\* /opt/cola/permits/1097982284\_1602212316.23/0/hikaricp-3-4-5-sources-1-jar/com/zaxxer/hikari/metrics/prometheus/PrometheusHistogramMetricsTracker.java  
\*  
/opt/cola/permits/1097982284\_1602212316.23/0/hikaricp-3-4-5-sources-1-jar/com/zaxxer/hikari/pool/ProxyStatement.java  
\* /opt/cola/permits/1097982284\_1602212316.23/0/hikaricp-3-4-5-sources-1-jar/com/zaxxer/hikari/hibernate/HikariConfigurationUtil.java  
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\* /opt/cola/permits/1097982284\_1602212316.23/0/hikaricp-3-4-5-sources-1-jar/com/zaxxer/hikari/metrics/PoolStats.java

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\* /opt/cola/permits/1097982284\_1602212316.23/0/hikaricp-3-4-5-sources-1-jar/com/zaxxer/hikari/metrics/dropwizard/CodahaleHealthChecker.java

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## 1.457 angular-cdk 9.0.1

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{ "version": 3, "file": "forms.umd.js", "sources": [ "../../../../external/npm/node_modules/tslib/tslib.es6.js", "../../../../packages/forms/src/directives/control_value_accessor.ts", "../../../../packages/forms/src/directives/checkbox_value_accessor.ts", "../../../../packages/forms/src/directives/default_value_accessor.ts", "../../../../packages/forms/src/directives/abstract_control_directive.ts", "../../../../packages/forms/src/directives/control_container.ts", "../../../../packages/forms/src/directives/ng_control.ts", "../../../../packages/forms/src/directives/ng_control_status.ts", "../../../../packages/forms/src/validators.ts", "../../../../packages/forms/src/directives/normalize_validator.ts", "../../../../packages/forms/src/directives/number_value_accessor.ts", "../../../../packages/forms/src/directives/radio_control_value_accessor.ts", "../../../../packages/forms/src/directives/range_value_accessor.ts", "../../../../packages/forms/src/directives/error_examples.ts", "../../../../packages/forms/src/directives/reactive_errors.ts", "../../../../packages/forms/src/directives/select_control_value_accessor.ts", "../../../../packages/forms/src/directives/select_multiple_control_value_accessor.ts", "../../../../packages/forms/src/directives/shared.ts", "../../../../packages/forms/src/model.ts", "../../../../packages/forms/src/directives/ng_form.ts", "../../../../packages/forms/src/directives/abstract_form_group_directive.ts", "../../../../packages/forms/src/directives/template_driven_errors.ts", "../../../../packages/forms/src/directives/ng_model_group.ts", "../../../../packages/forms/src/directives/ng_model.ts", "../../../../packages/forms/src/directives/ng_no_validate_directive.ts", "../../../../packages/forms/src/directives/reactive_directives/form_control_directive.ts", "../../../../packages/forms/src/directives/reactive_directives/form_group_directive.ts", "../../../../packages/forms/src/directives/reactive_directives/form_group_name.ts", "../../../../packages/forms/src/directives/reactive_directives/form_control_name.ts", "../../../../packages/forms/src/directives/validators.ts", "../../../../packages/forms/src/directives.ts", "../../../../packages/forms/src/form_builder.ts", "../../../../packages/forms/src/version.ts", "../../../../packages/forms/src/form_providers.ts", "../../../../packages/forms/src/forms.ts", "../../../../packages/forms/public_api.ts", "../../../../packages/forms/index.ts", "../../../../packages/forms/forms.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\nMERCHANTABILITY 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) {\r\n      for (var p in b) if (b.hasOwnProperty(p)) d[p] = b[p];\r\n    };\r\n  return extendStatics(d, b);\r\n};\r\n\r\nexport function __extends(d, b) {\r\n  extendStatics(d, b);\r\n  function __() {\r\n    this.constructor = d;\r\n  }\r\n  d.prototype = b === null ? Object.create(b) : (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\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 step(result) {
result.done ? resolve(result.value) : new P(function (resolve) { resolve(result.value); }).then(fulfilled, rejected); }\r\n
    step((generator = generator.apply(thisArg, _arguments || []).next());\r\n    );\r\n}\r\n}\r\n\r\nexport function
__generator(thisArg, body) {\r\n  var _ = { label: 0, sent: function() { if (t[0] & 1) throw t[1]; return t[1]; }, trys: [],
ops: [] }, f, y, t, g;\r\n  return g = { next: verb(0), "throw": verb(1), "return": verb(2) }, typeof Symbol ===
"function" && (g[Symbol.iterator] = function() { return this; }), g;\r\n  function verb(n) { return function (v) {
return step([n, v]); }; }\r\n  function step(op) {\r\n    if (f) throw new TypeError("Generator is already
executing.");\r\n    while (_) try
      {\r\n        if (f = 1, y && (t = op[0] & 2 ? y["return"] : op[0] ? y["throw"] || ((t = y["return"]) && t.call(y), 0) :
y.next) && !(t = t.call(y, op[1])).done) return t;\r\n        if (y = 0, t) op = [op[0] & 2, t.value];\r\n        switch
(op[0]) {\r\n          case 0: case 1: t = op; break;\r\n          case 4: _label++; return { value: op[1], done: false
};\r\n          case 5: _label++; y = op[1]; op = [0]; continue;\r\n          case 7: op = _ops.pop(); _trys.pop();
continue;\r\n          default:\r\n            if (!(t = _trys, t = t.length > 0 && t[t.length - 1]) && (op[0] === 6 ||
op[0] === 2)) { _ = 0; continue; }\r\n            if (op[0] === 3 && (t || (op[1] > t[0] && op[1] < t[3]))) { _label
= op[1]; break; }\r\n            if (op[0] === 6 && _label < t[1]) { _label = t[1]; t = op; break; }\r\n            if
(t && _label < t[2]) { _label = t[2]; _ops.push(op); break; }\r\n
            if (t[2]) _ops.pop();\r\n            _trys.pop(); continue;\r\n          }\r\n          op = body.call(thisArg,
_);\r\n        } catch (e) { op = [6, e]; y = 0; } finally { f = t = 0; }\r\n        if (op[0] & 5) throw op[1]; return { value:
op[0] ? op[1] : void 0, done: true }; }\r\n    }\r\n}\r\n\r\nexport function __exportStar(m, exports) {\r\n  for (var p in
m) if (!exports.hasOwnProperty(p)) exports[p] = m[p];\r\n}\r\n\r\nexport function __values(o) {\r\n  var m = typeof
Symbol === "function" && o[Symbol.iterator], i = 0;\r\n  if (m) return m.call(o);\r\n  return {\r\n    next:
function () {\r\n      if (o && i >= o.length) o = void 0;\r\n      return { value: o && o[i++], done: !o }; }\r\n
  };\r\n}\r\n\r\nexport function __read(o, n) {\r\n  var m = typeof Symbol === "function" &&
o[Symbol.iterator];\r\n  if (!m) return o;\r\n  var i = m.call(o), r, ar = [], e;\r\n  try {\r\n    while ((n === void 0
|| n-- >
0) && !(r = i.next()).done) ar.push(r.value);\r\n  } catch (error) { e = { error: error }; }\r\n  finally {\r\n
    try {\r\n      if (r && !r.done && (m = i["return"])) m.call(i);\r\n    } finally { if (e) throw e.error; }\r\n
  }\r\n  }\r\n  return ar;\r\n}\r\n\r\nexport function __spread() {\r\n  for (var ar = [], i = 0; i < arguments.length;
i++)\r\n    ar = ar.concat(__read(arguments[i]));\r\n  return ar;\r\n}\r\n\r\nexport function __spreadArrays() {\r\n
for (var s = 0, i = 0, il = arguments.length; i < il; i++) s += arguments[i].length;\r\n  for (var r = Array(s), k = 0, i =
0; i < il; i++)\r\n    for (var a = arguments[i], j = 0, jl = a.length; j < jl; j++, k++)\r\n      r[k] = a[j];\r\n  return
r;\r\n}\r\n\r\nexport function __await(v) {\r\n  return this instanceof __await ? (this.v = v, this) : new
__await(v);\r\n}\r\n\r\nexport function __asyncGenerator(thisArg, _arguments, generator) {\r\n  if
(!Symbol.asyncIterator)
    throw new TypeError("Symbol.asyncIterator is not defined.");\r\n  var g = generator.apply(thisArg, _arguments ||
[]), i, q = [];\r\n  return i = {}, verb("next"), verb("throw"), verb("return"), i[Symbol.asyncIterator] = function
() { return this; }, i;\r\n  function verb(n) { if (g[n]) i[n] = function (v) { return new Promise(function (a, b) {

```



```

/**\n * @description\n * Function that is called by the forms API when the control status changes to\n * or from
'DISABLED'. Depending on the status, it enables or disables the\n * appropriate DOM element.\n *\n *
@usageNotes\n * The following is an example of writing the disabled property
to a native DOM element:\n *\n * ``\n * setDisabledState(isDisabled: boolean): void {\n *
this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\n * }\n * ``\n *\n * @param
isDisabled The disabled status to set on the element\n */\n setDisabledState?(isDisabled: boolean):
void;\n}\n\n/**\n * Used to provide a `ControlValueAccessor` for form controls.\n *\n * See
`DefaultValueAccessor` for how to implement one.\n *\n * @publicApi\n */\nexport const
NG_VALUE_ACCESSOR = new InjectionToken<ControlValueAccessor>('NgValueAccessor');\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, Renderer2, forwardRef} from '@angular/core';\n\nimport {ControlValueAccessor,
NG_VALUE_ACCESSOR} from './control_value_accessor';\n\nexport const CHECKBOX_VALUE_ACCESSOR:
any = {\n  provide: NG_VALUE_ACCESSOR,\n  useExisting: forwardRef(() =>
CheckboxControlValueAccessor),\n  multi: true,\n};\n\n/**\n * @description\n * A `ControlValueAccessor` for
writing a value and listening to changes on a checkbox input\n * element.\n *\n * @usageNotes\n *\n * ### Using a
checkbox with a reactive form.\n *\n * The following example shows how to use a checkbox with a reactive form.\n
*\n * ``\n * const rememberLoginControl = new FormControl();\n * ``\n *\n * ``\n * <input type="checkbox"\n
[formControl]="rememberLoginControl">\n * ``\n *\n * @ngModule ReactiveFormsModule\n * @ngModule
FormsModule\n * @publicApi\n */\n@Directive({\n  selector:\n
'input[type=checkbox][formControlName],input[type=checkbox][formControl],input[type=checkbox][ngModel]',\n
  host: {'(change)': 'onChange($event.target.checked)', '(blur)': 'onTouched()' },\n  providers:
[CHECKBOX_VALUE_ACCESSOR]})\nexport class CheckboxControlValueAccessor implements
ControlValueAccessor
{\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  constructor(private
_renderer: Renderer2, private _elementRef: ElementRef) {\n\n    /**\n * Sets the "checked" property on the input
element.\n *\n * @param value The checked value\n */\n    writeValue(value: any): void {\n
this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value);\n  }\n\n  /**\n * @description\n *
Registers a function called when the control value changes.\n *\n * @param fn The callback function\n */\n  registerOnChange(fn: (_: any) => {}): void {\n    this.onChange = fn;\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:
() => {}): void {\n    this.onTouched = fn;\n  }\n\n  /**\n * Sets the "disabled" property on the input element.\n *\n *
@param isDisabled The disabled value\n */\n  setDisabledState(isDisabled: boolean): void {\n
this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\n  }\n}\n", "/*\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 {ÉµgetDOM as getDOM} from
'@angular/common';\n\nimport {Directive, ElementRef, Inject, InjectionToken, Optional, Renderer2, forwardRef}
from '@angular/core';\n\nimport {ControlValueAccessor, NG_VALUE_ACCESSOR} from
'./control_value_accessor';\n\nexport const DEFAULT_VALUE_ACCESSOR: any = {\n  provide:
NG_VALUE_ACCESSOR,\n  useExisting: forwardRef(() => DefaultValueAccessor),\n  multi: true,\n};\n\n/**\n *
We must check whether the agent is Android because
composition events\n * behave differently between iOS and Android.\n */\nfunction _isAndroid(): boolean {\n
const userAgent = getDOM() ? getDOM().getUserAgent() : "";\n  return /android
(\\d+)/.test(userAgent.toLowerCase());\n}\n\n/**\n * @description\n * Provide this token to control if form
directives buffer IME input until\n * the "compositionend" event occurs.\n *\n * @publicApi\n */\nexport const

```

```

COMPOSITION_BUFFER_MODE = new InjectionToken<boolean>('CompositionEventMode');\n\n/**\n *
 * @description\n * The default `ControlValueAccessor` for writing a value and listening to changes on input\n *
 * elements. The accessor is used by the `FormControlDirective`, `FormControlName`, and\n * `NgModel`
 * directives.\n *\n * @usageNotes\n *\n * ### Using the default value accessor\n *\n * The following example shows
 * how to use an input element that activates the default value accessor\n * (in this case, a text field).\n *\n * ```ts\n *
 * const firstNameControl = new FormControl();\n *\n * ```\n *\n * <input type="text" [formControl]=\n * "firstNameControl">\n *\n * ```\n *\n * @ngModule
 * ReactiveFormsModule\n *\n * @ngModule FormsModule\n *\n * @publicApi\n *\n * @Directive({\n * selector:\n *
 * 'input:not([type=checkbox])[formControlName],textarea[formControlName],input:not([type=checkbox])[formContr
 * ol],textarea[formControl],input:not([type=checkbox])[ngModel],textarea[ngModel],[ngDefaultControl]',\n *
 * //
 * TODO: vsavkin replace the above selector with the one below it once\n * //
 * https://github.com/angular/angular/issues/3011 is implemented\n * // selector:
 * '[ngModel],[formControl],[formControlName]',\n * host: {\n * '(input)':
 * '$any(this)._handleInput($event.target.value)',\n * '(blur)': 'onTouched()',\n * '(compositionstart)':
 * '$any(this)._compositionStart()',\n * '(compositionend)': '$any(this)._compositionEnd($event.target.value)'\n * },\n *
 * providers: [DEFAULT_VALUE_ACCESSOR]\n *})\n * export class DefaultValueAccessor implements
 * ControlValueAccessor {\n * /**\n * * @description\n * * The
 * registered callback function called when an input event occurs on the input element.\n * * ^\n * * onChange = (_: any)
 * => {};\n * /**\n * * @description\n * * The registered callback function called when a blur event occurs on the input
 * element.\n * * ^\n * * onTouched = () => {};\n * /**\n * * Whether the user is creating a composition string (IME events).
 * *\n * private _composing = false;\n * constructor(\n * private _renderer: Renderer2, private _elementRef:
 * ElementRef,\n * @Optional() @Inject(COMPOSITION_BUFFER_MODE) private _compositionMode: boolean)\n * {\n * if (this._compositionMode == null) {\n * this._compositionMode = !_isAndroid();\n * }\n * }\n * /**\n *
 * Sets the "value" property on the input element.\n * *\n * @param value The checked value\n * *\n * writeValue(value: any): void {\n * const normalizedValue = value == null ? '' : value;\n *
 * this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);\n * }\n * /**\n *
 * @description\n * * Registers
 * a function called when the control value changes.\n * *\n * @param fn The callback function\n * *\n * registerOnChange(fn: (_: any) => void): void { this.onChange = fn; }\n * /**\n * * @description\n * * Registers a
 * function called when the control is touched.\n * *\n * @param fn The callback function\n * *\n * registerOnTouched(fn: () => void): void { this.onTouched = fn; }\n * /**\n * * Sets the "disabled" property on the
 * input element.\n * *\n * @param isDisabled The disabled value\n * *\n * setDisabledState(isDisabled: boolean):
 * void {\n * this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\n * }\n * /**\n * @internal
 * *\n * ^\n * _handleInput(value: any): void {\n * if (!this._compositionMode || (this._compositionMode &&
 * !this._composing)) {\n * this.onChange(value);\n * }\n * }\n * /**\n * @internal\n * _compositionStart(): void {\n *
 * this._composing = true;\n * }\n * /**\n * @internal\n * _compositionEnd(value: any): void {\n * this._composing =
 * false;\n * this._compositionMode && this.onChange(value);\n * }\n * }\n * /**\n * * @license\n * * Copyright Google
 * Inc. All Rights Reserved.\n * *\n * Use of this source code is governed by an MIT-style license that can be\n * * found
 * in the LICENSE file at https://angular.io/license\n * *\n * ^\n * import {Observable} from 'rxjs';\n * import {AbstractControl}
 * from './model';\n * import {ValidationErrors} from './validators';\n * /**\n * * @description\n * * Base class for control
 * directives.\n * *\n * This class is only used internally in the `ReactiveFormsModule` and the `FormsModule`.\n * *\n *
 * @publicApi\n * ^\n * export abstract class AbstractControlDirective {\n * /**\n * * @description\n * * A reference to the
 * underlying control.\n * *\n * @returns the control that backs this directive. Most properties fall through to that
 * instance.\n * *\n * ^\n * abstract get control(): AbstractControl|null;\n * /**\n * * @description\n * * Reports the value of
 * the control if it is present, otherwise null.\n * *\n * ^\n * get value(): any
 * {\n * return this.control ? this.control.value : null; }\n * /**\n * * @description\n * * Reports whether the control is
 * valid. A control is considered valid if no\n * * validation errors exist with the current value.\n * *\n * If the control is not
 * present, null is returned.\n * *\n * ^\n * get valid(): boolean|null {\n * return this.control ? this.control.valid : null; }\n * /**\n

```

\* @description  
\* Reports whether the control is invalid, meaning that an error exists in the input value.  
\* If the control is not present, null is returned.  
\* ^\n get invalid(): boolean|null { return this.control ? this.control.invalid : null; }  
/\*\*  
\* @description  
\* Reports whether a control is pending, meaning that that async validation is occurring and  
\* errors are not yet available for the input value. If the control is not present, null is  
\* returned.  
\* ^\n get pending(): boolean|null { return this.control ? this.control.pending : null; }  
/\*\*  
\* @description  
\* Reports whether the control is disabled, meaning that the control is disabled  
\* in the UI and is exempt from validation checks and excluded from aggregate  
\* values of ancestor controls. If the control is not present, null is returned.  
\* ^\n get disabled(): boolean|null { return this.control ? this.control.disabled : null; }  
/\*\*  
\* @description  
\* Reports whether the control is enabled, meaning that the control is included in ancestor  
\* calculations of validity or value. If the control is not present, null is returned.  
\* ^\n get enabled(): boolean|null { return this.control ? this.control.enabled : null; }  
/\*\*  
\* @description  
\* Reports the control's validation errors. If the control is not present, null is returned.  
\* ^\n get errors(): ValidationErrors|null { return this.control ? this.control.errors : null; }  
/\*\*  
\* @description  
\* Reports whether the control is pristine, meaning that the user has not yet changed  
\* the value in the UI. If the control is not present, null is returned.  
\* ^\n get pristine(): boolean|null { return this.control ? this.control.pristine : null; }  
/\*\*  
\* @description  
\* Reports whether the control is dirty, meaning that the user has changed  
\* the value in the UI. If the control is not present, null is returned.  
\* ^\n get dirty(): boolean|null { return this.control ? this.control.dirty : null; }  
/\*\*  
\* @description  
\* Reports whether the control is touched, meaning that the user has triggered  
\* a `blur` event on it. If the control is not present, null is returned.  
\* ^\n get touched(): boolean|null { return this.control ? this.control.touched : null; }  
/\*\*  
\* @description  
\* Reports the validation status of the control. Possible values include:  
\* 'VALID', 'INVALID', 'DISABLED', and 'PENDING'.  
\* If the control is not present, null is returned.  
\* ^\n get status(): string|null { return this.control ? this.control.status : null; }  
/\*\*  
\* @description  
\* Reports whether the control is untouched, meaning that the user has not yet triggered  
\* a `blur` event on it. If the control is not present, null is returned.  
\* ^\n get untouched(): boolean|null { return this.control ? this.control.untouched : null; }  
/\*\*  
\* @description  
\* Returns a multicasting observable that emits a validation status whenever it is  
\* calculated for the control. If the control is not present, null is returned.  
\* ^\n get statusChanges(): Observable<any>|null { return this.control ? this.control.statusChanges : null; }  
/\*\*  
\* @description  
\* Returns a multicasting observable of value changes for the control that emits every time the  
\* value of the control changes in the UI or programmatically.  
\* If the control is not present, null is returned.  
\* ^\n get valueChanges(): Observable<any>|null { return this.control ? this.control.valueChanges : null; }  
/\*\*  
\* @description  
\* Returns an array that represents the path from the top-level form to this control.  
\* Each index is the string name of the control on that level.  
\* ^\n get path(): string[]|null { return null; }  
/\*\*  
\* @description  
\* Resets the control with the provided value if the control is present.  
\* ^\n reset(value: any = undefined): void { if (this.control) this.control.reset(value); }  
/\*\*  
\* @description  
\* Reports whether the control with the given path has the error specified.  
\* @param errorCode The code of the error to check  
\* @param path A list of control names that designates how to move from the current control  
\* to the control that should be queried for errors.  
\* @usageNotes  
\* For example, for the following `FormGroup`:  
\* form = new FormGroup({  
\* address: new FormGroup({ street: new FormControl() })  
\* });  
\* The path to the 'street' control from the root form would be 'address' -> 'street'.  
\* It can be provided to this method in one of two formats:  
\* 1. An array of string control names, e.g. `['address', 'street']`  
\* 2. A period-delimited list of control names in one string, e.g. `address.street`  
\* If no path is given, this method checks for the error on the current control.  
\* @returns whether the given error is present in the control at the given path.  
\* If the control is not present, false is returned.  
\* ^\n 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.

- `errorCode`: The code of the error to check
- `path`: A list of control names that designates how to move from the current control to the control that should be queried for errors.
- `usageNotes`:
  - For example, for the following `FormGroup`:

```
form = new FormGroup({
  address: new FormGroup({
    street: new FormControl()
  })
});
```

The path to the 'street' control from the root form would be 'address' -> 'street'.
  - It can be provided to this method in one of two formats:
    - An array of string control names, e.g. `['address', 'street']`
    - A period-delimited list of control names in one string, e.g. `'address.street'`

`getError(errorCode: string, path?: Array<string|number>|string): any` returns error data for that particular error. If the control or error is not present, `null` is returned.

```
getError(errorCode: string, path?: Array<string|number>|string): any {
  return this.control ? this.control.getError(errorCode, path) : null;
}
```

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```
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.
 * @publicApi
 */
export abstract class ControlContainer extends AbstractControlDirective {
  /**
   * @description
   * The name for the control
   */
  // TODO(issue/24571): remove '!'.
  name!: string | number | null;

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

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

/**
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 */
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.
 * @publicApi
 */
export abstract class NgControl extends AbstractControlDirective {
  /**
   * @description
   * The parent form for the control.
   */
  @internal
  _parent: ControlContainer | null = null;

  /**
   * @description
   * The name for the control
   */
  name: string | number | null = null;

  /**
   * @description
   * The value accessor for the control
   */
  valueAccessor: ControlValueAccessor | null = null;

  /**
   * @description
   * The uncomposed array of synchronous validators for the control
   */
  @internal
  _rawValidators: Array<Validator | ValidatorFn> = [];

  /**
   * @description
   * The uncomposed array of async validators for the control
   */
  @internal
  _rawAsyncValidators: Array<AsyncValidator | AsyncValidatorFn> = [];

  /**
   * @description
   * The registered synchronous validator function for the control
   */
  @throws An exception that this method is not implemented
  get validator(): ValidatorFn | null { return <ValidatorFn>unimplemented(); }

  /**
   * @description
   * The registered async validator function for the control
   */
  @throws An exception that this method is not implemented
  get asyncValidator(): AsyncValidatorFn | null { return <AsyncValidatorFn>unimplemented(); }

  /**
   * @description
   * The callback method to update the model from the view when requested
   */
  @param newValue The new value for the view
  abstract 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;
  }

  get ngClassUntouched(): boolean {
    return this._cd.control ? this._cd.control.untouched : false;
  }
}
```

```

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
 * ## CSS classes applied
 * The following classes are applied as the properties become true:
 * ng-valid
 * ng-invalid
 * ng-pending
 * ng-pristine
 * ng-dirty
 * ng-untouched
 * ng-touched
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 */
@Directive({
  selector: '[formControlName],[ngModel],[formControl]',
  host: ngControlStatusHost
})
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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 */
import { InjectionToken, Observable as isObservable, Promise 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 {
  // we don't check for string here so it also works with arrays
  return value == null || value.length === 0;
}

/**
 * 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.
 * @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');

/**
 * An `InjectionToken` for registering additional asynchronous validators used with `AbstractControl`s.
 * @see `NG_ASYNC_VALIDATORS`
 * @publicApi
 */
export const NG_ASYNC_VALIDATORS = new InjectionToken<Array<Validator|Function>>('NgAsyncValidators');

/**
 * A regular expression that matches valid e-mail addresses.
 * At a high level, this regexp matches e-mail addresses of the format `local-part@tld`,
 * where:
 * - `local-part` consists of one or more of the allowed characters (alphanumeric and some punctuation symbols).
 * - `local-part` cannot begin or end with a period (.).
 * - `local-part` cannot be longer than 64 characters.
 * - `tld` consists of one or more `labels` separated by periods (.). For example `localhost` or `foo.com`.
 * - A `label` consists of one or more of the allowed characters (alphanumeric, dashes (-) and periods (.)).
 * - A `label` cannot begin or end with a dash (-) or a period (.).
 * - A `label` cannot be longer than 63 characters.
 * - 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 \*\n <https://github.com/angular/angular.js/blob/c133ef836/src/ng/directive/input.js#L27>\n \*\n It is based on the [WHATWG version](<https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address>) with some enhancements to incorporate more RFC rules (such as rules related to domain names and the lengths of different parts of the address). The main differences from the WHATWG version are:\n \*\n - Disallow `local-part` to begin or end with a period (`.`).\n \*\n - Disallow `local-part` length to exceed 64 characters.\n \*\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 \*\nconst EMAIL\_REGEXP =\n /\^(?=.{1,254}\$)(?=.{1,64}@)[a-zA-Z0-9!#\$%&'\*/+=?^\_`{}~]+(?:\\.\\[a-zA-Z0-9!#\$%&'\*/+=?^\_`{}~]+)\*@[a-zA-Z0-9](?:[a-zA-Z0-9-]{0,61}[a-zA-Z0-9])?(?:\\.\\[a-zA-Z0-9-]{0,61}[a-zA-Z0-9])?)\*\$;\n\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 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 \*/\nexport class Validators {\n /\*\*\n \* @description\n \* Validator that requires the control's value to be greater than or equal to the provided number.\n \*\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 \* @returns A validator function that returns an error map with the `min` property if the validation check fails, otherwise `null`.\n \*\n \* @see `updateValueAndValidity`\n \*\n \* @static min(min: number): ValidatorFn {\n return (control: AbstractControl): ValidationErrors | null => {\n if (isEmptyInputValue(control.value) || isEmptyInputValue(min)) {\n return null; // don't validate empty values to allow optional controls\n }\n const value = parseFloat(control.value);\n\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 /\*\*\n \* @description\n \* Validator that requires the control's value to be less than or equal to the provided number.\n \*\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: 15, actual: 16}}\n \*\n \* @returns A validator function that returns an error map with the `max` property if the validation check fails, otherwise `null`.\n \*\n \* @see `updateValueAndValidity`\n \*\n \* @static max(max: number): ValidatorFn {\n return (control: AbstractControl): ValidationErrors | null => {\n if (isEmptyInputValue(control.value) || isEmptyInputValue(max)) {\n return null; // don't validate empty values to allow optional controls\n }\n const value = parseFloat(control.value);\n\n // Controls with NaN values after parsing should be treated as not having a\n // maximum, per the HTML forms spec: <https://www.w3.org/TR/html5/forms.html#attr-input-max>\n return !isNaN(value) && value > max ? {'max': {'max': max, 'actual': control.value}} : null;\n };\n }\n\n /\*\*\n \* @description\n \* Validator that requires the control have a non-empty value.\n \*\n \* @usageNotes\n \*\n \* ### Validate that the field is non-empty\n \*\n \* ```typescript\n \* const control = new FormControl("", Validators.required);\n \*\n \* console.log(control.errors); // {required: true}\n \*\n \* @returns An error map with the `required` property\n \*\n \* if the validation check fails, otherwise `null`.\n \*\n \* @see `updateValueAndValidity`\n \*\n \* @static required(control: AbstractControl): ValidationErrors|null {\n return isEmptyInputValue(control.value) ? {'required': true} : null;\n }\n\n /\*\*\n \* @description\n \* Validator that requires the control's value be true. This validator is commonly used for required checkboxes.\n \*\n \* @usageNotes\n \*\n \* ### Validate that the field value is true\n \*\n \* ```typescript\n \* const control = new FormControl("", Validators.requiredTrue);\n \*\n \* console.log(control.errors); // {required: true}\n \*\n \* @returns An error map that contains the `required`

```

property\n * set to `true` if the validation check fails, otherwise `null`.\n * \n * @see
`updateValueAndValidity()`\n * \n * \n static requiredTrue(control: AbstractControl): ValidationErrors|null {\n
return control.value === true ? null : {'required': true};\n } \n\n /**\n * @description\n * Validator
that requires the control's value pass an email validation test.\n * \n * Tests the value using a [regular
expression](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide/Regular_Expressions)\n * pattern
suitable for common usecases. The pattern is based on the definition of a valid email\n * address in the
[WHATWG HTML specification](https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address)\n *
with some enhancements to incorporate more RFC rules (such as rules related to domain names and\n * the lengths
of different parts of the address).\n * \n * The differences from the WHATWG version include:\n * - Disallow
`local-part` (the part before the `@` symbol) to begin or end with a period (`.`).\n * - Disallow `local-part` to be
longer than 64 characters.\n * - Disallow the whole address to be longer than 254 characters.\n * \n * If this
pattern does not satisfy your business needs, you can use `Validators.pattern()` to\n * validate
the value against a different pattern.\n * \n * @usageNotes\n * \n * ### Validate that the field matches a valid
email pattern\n * \n * ```typescript\n * const control = new FormControl('bad@', Validators.email);\n * \n *
console.log(control.errors); // {email: true}\n * ```\n * \n * @returns An error map with the `email` property\n *
if the validation check fails, otherwise `null`.\n * \n * @see `updateValueAndValidity()`\n * \n * \n static
email(control: AbstractControl): ValidationErrors|null {\n *   if (isEmptyInputValue(control.value)) {\n *     return
null; // don't validate empty values to allow optional controls\n *   }\n *   return EMAIL_REGEXP.test(control.value)
? null : {'email': true};\n * } \n\n /**\n * @description\n * Validator that requires the length of the control's value
to be greater than or equal\n * to the provided minimum length. This validator is also provided by default if you
use the\n * the HTML5 `minlength` attribute.\n * \n * @usageNotes\n * \n * ### Validate that the field has a minimum of 3 characters\n * \n * ```typescript\n *
const control = new FormControl('ng', Validators.minLength(3));\n * \n * console.log(control.errors); //
{minlength: {requiredLength: 3, actualLength: 2}}\n * ```\n * \n * ```html\n * <input minlength="3">\n *
```\n * \n * @returns A validator function that returns an error map with the\n * `minlength` if the validation
check fails, otherwise `null`.\n * \n * @see `updateValueAndValidity()`\n * \n * \n static
minLength(minLength: number): ValidatorFn {\n *   return (control: AbstractControl): ValidationErrors | null => {\n *
if (isEmptyInputValue(control.value)) {\n *     return null; // don't validate empty values to allow optional
controls\n *   }\n *   const length: number = control.value ? control.value.length : 0;\n *   return length < minLength
? \n *     {'minlength': {requiredLength: minLength, 'actualLength': length}} : \n *
null;\n * };\n * } \n\n /**\n * @description\n * Validator that requires the length of the control's value to be
less than or equal\n * to the provided maximum length. This validator is also provided by default if you use the\n *
the HTML5 `maxlength` attribute.\n * \n * @usageNotes\n * \n * ### Validate that the field has maximum of
5 characters\n * \n * ```typescript\n * const control = new FormControl('Angular', Validators.maxLength(5));\n *
\n * console.log(control.errors); // {maxlength: {requiredLength: 5, actualLength: 7}}\n * ```\n * \n * ```html\n *
<input maxlength="5">\n * ```\n * \n * @returns A validator function that returns an error map with the\n *
`maxlength` property if the validation check fails, otherwise `null`.\n * \n * @see `updateValueAndValidity()`\n *
\n * \n static maxLength(maxLength: number): ValidatorFn {\n *   return (control: AbstractControl):
ValidationErrors | null => {\n *     const length: number
= control.value ? control.value.length : 0;\n *     return length > maxLength ? \n *       {'maxlength': {requiredLength':
maxLength, 'actualLength': length}} : \n *       null;\n * };\n * } \n\n /**\n * @description\n * Validator that
requires the control's value to match a regex pattern. This validator is also\n * provided by default if you use the
HTML5 `pattern` attribute.\n * \n * @usageNotes\n * \n * ### Validate that the field only contains letters or
spaces\n * \n * ```typescript\n * const control = new FormControl('1', Validators.pattern('[a-zA-Z ]*'));\n * \n *
console.log(control.errors); // {pattern: {requiredPattern: '^[a-zA-Z ]*$', actualValue: '1'}}\n * ```\n * \n *
```\n * \n * @param pattern A regular expression to be used as is
to test the values, or a string.\n * \n * If a string is passed, the `^` character is prepended and the `$` character is\n *
appended to the provided string (if not already

```

```

present), and the resulting regular
 * expression is used to test the values.
 * @returns A validator
function that returns an error map with the
 * `pattern` property if the validation check fails, otherwise `null`.
 * @see `updateValueAndValidity()`
 * ^ static pattern(pattern: string|RegExp): ValidatorFn {
  if
(!pattern) return Validators.nullValidator;
  let regex: 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);
  } 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`.
 * @see `updateValueAndValidity()`
 * ^ static
compose(validators: null): null;
static compose(validators: (ValidatorFn|null|undefined)[]): ValidatorFn|null;
static compose(validators: (ValidatorFn|null|undefined)[]|null):
ValidatorFn|null {
  if (!validators) return null;
  const presentValidators: ValidatorFn[] =
validators.filter(isPresent) as any;
  if (presentValidators.length === 0) return null;
  return function(control:
AbstractControl) {
    return _mergeErrors(_executeValidators(control, presentValidators));
  };
}
}
/**
 * @description
 * Compose multiple async validators into a single function that returns the union
 * of the
individual error objects for the provided control.
 * @returns A validator function that returns an error map
with the
 * merged error objects of the async validators if the validation check fails, otherwise `null`.
 * @see `updateValueAndValidity()`
 * ^ static composeAsync(validators: (AsyncValidatorFn|null)[]):
AsyncValidatorFn|null {
  if (!validators) return null;
  const presentValidators: AsyncValidatorFn[] =
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|null {
  let res: {[key: string]: any} = {};
  // Not using Array.reduce here
due to a Chrome
80 bug
// https://bugs.chromium.org/p/chromium/issues/detail?id=1049982
arrayOfErrors.forEach((errors:
ValidationErrors | null) => {
    res = errors != null ? {...res!, ...errors} : res!;
  });
  return
Object.keys(res).length === 0 ? null : res;
}
}
}
/**
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 * Copyright Google Inc. All Rights Reserved.
 * Use of this source code is governed by an MIT-style license that can be
 * found in 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)

```

```

    {\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 MIT-style 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 * <input type="number"
[formControl]="totalCountControl">\n * ``\n *\n * @ngModule ReactiveFormsModule\n * @ngModule
FormsModule\n * @publicApi\n */\n@Directive({\n  selector:\n
'input[type=number][formControlName],input[type=number][formControl],input[type=number][ngModel]',\n  host:
{\n    '(change)': 'onChange($event.target.value)',\n    '(input)': 'onChange($event.target.value)',\n    '(blur)':
'onTouched()\n  },\n  providers: [NUMBER_VALUE_ACCESSOR]\n})\nexport class NumberValueAccessor
implements ControlValueAccessor {\n  /**\n   * @description\n   * The registered callback function called when a
change or input event occurs on the input\n   * element.\n   *\n   * @param onChange = (_: any) => {};\n   *\n   *
@description\n   * The registered callback function called when a blur event occurs on the input
element.\n   *\n   * @param onTouched = () => {};\n   *\n   * constructor(private _renderer: Renderer2, private _elementRef:
ElementRef) {\n   *\n   * /**\n   * Sets the "value" property on the input element.\n   *\n   * @param value The checked
value\n   *\n   * @param writeValue(value: number): void {\n   * // The value needs to be normalized for IE9, otherwise it is set
to 'null' when null\n   * const normalizedValue = value == null ? "": value;\n   *\n   * this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);\n   * }\n   *\n   *
@description\n   * Registers a function called when the control value changes.\n   *\n   * @param fn The callback
function\n   *\n   * @param registerOnChange(fn: (_: number|null) => void): void {\n   * this.onChange = (value) => { fn(value
=== " ? null : parseFloat(value)); }\n   * }\n   *\n   * @description\n   * Registers a function called when the control
is touched.\n   *\n   * @param fn The callback function\n   *\n   * @param registerOnTouched(fn: () => void): void {\n
this.onTouched
= fn; }\n   *\n   * Sets the "disabled" property on the input element.\n   *\n   * @param isDisabled The disabled
value\n   *\n   * @param setDisabledState(isDisabled: boolean): void {\n
this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\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, Injectable,
Injector, Input, OnDestroy, OnInit, Renderer2, forwardRef} from '@angular/core';\n\nimport
{ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';\n\nimport {NgControl} from
'./ng_control';\n\nexport const RADIO_VALUE_ACCESSOR: any = {\n  provide: NG_VALUE_ACCESSOR,\n  useExisting: forwardRef(() => RadioControlValueAccessor),\n  multi: true\n};\n\n/**\n * @description\n * Class
used by Angular to track radio buttons. For internal
use only.\n */\n@Injectable()\nexport class RadioControlRegistry {\n  private _accessors: any[] = [];\n\n  /**\n   *
@description\n   * Adds a control to the internal registry. For internal use only.\n   *\n   * @param control: NgControl,
accessor: RadioControlValueAccessor) {\n   * this._accessors.push([control, accessor]);\n   * }\n   *\n   *
@description\n   * Removes a control from the internal registry. For internal use only.\n   *\n   * @param accessor:
RadioControlValueAccessor) {\n   * for (let i = this._accessors.length - 1; i >= 0; --i) {\n   *   if (this._accessors[i][1]
=== accessor) {\n   *     this._accessors.splice(i, 1);\n   *     return;\n   *   }\n   * }\n   * }\n   *\n   * @description\n   *
Selects a radio button. For internal use only.\n   *\n   * @param accessor: RadioControlValueAccessor) {\n
this._accessors.forEach((c) => {\n   *   if (this._isSameGroup(c, accessor) && c[1] !== accessor) {\n

```

```

c[1].fireUncheck(accessor.value);\n    }\n  });\n\n  private _isSameGroup(\n    controlPair: [NgControl, RadioControlValueAccessor],\n    accessor: RadioControlValueAccessor): boolean\n  {\n    if (!controlPair[0].control) return false;\n    return controlPair[0]._parent === accessor._control._parent &&\n      controlPair[1].name === accessor.name;\n  }\n}\n\n/**\n * @description\n * The `ControlValueAccessor` for\n writing radio control values and listening to radio control\n * changes. The value accessor is used by the\n `FormControlDirective`, `FormControlName`, and\n * `NgModel` directives.\n * @usageNotes\n * ###\n Using radio buttons with reactive form directives\n * The follow example shows how to use radio buttons in a\n reactive form. When using radio buttons in\n * a reactive form, radio buttons in the same group should have the\n same `formControlName`.\n * Providing a `name` attribute is optional.\n * @example\n forms/ts/reactiveRadioButtons/reactive_radio_button_example.ts\n region='Reactive'\n * @ngModule\n ReactiveFormsModule\n * @ngModule\n FormsModule\n * @publicApi\n */\n@Directive({\n  selector:\n 'input[type=radio][formControlName],input[type=radio][formControl],input[type=radio][ngModel]',\n  host:\n {'(change)': 'onChange()', '(blur)': 'onTouched()'},\n  providers: [RADIO_VALUE_ACCESSOR]})\nexport class\n RadioControlValueAccessor implements ControlValueAccessor,\n  OnDestroy, OnInit {\n  /** @internal */\n // TODO(issue/24571): remove '!.\n  _state!: boolean;\n  /** @internal */\n // TODO(issue/24571): remove '!.\n  _control!: NgControl;\n  /** @internal */\n // TODO(issue/24571): remove '!.\n  _fn!: Function;\n  /**\n * @description\n * The registered callback function called when a change event occurs on the input element.\n */\n  onChange = () => {};\n  /**\n * @description\n * The registered callback function called when a blur event\n occurs on the input element.\n */\n  onTouched = () => {};\n  /**\n * @description\n * Tracks the name of the\n radio input element.\n */\n // TODO(issue/24571): remove '!.\n  @Input() name!: string;\n  /**\n * @description\n * Tracks the\n name of the `FormControl` bound to the directive. The name corresponds\n * to a key in the parent `FormGroup`\n or `FormArray`.\n */\n // TODO(issue/24571): remove '!.\n  @Input() formControlName!: string;\n  /**\n * @description\n * Tracks the value of the radio input element.\n */\n  @Input() value: any;\n  constructor(\n    private _renderer: Renderer2,\n    private _elementRef: ElementRef,\n    private _registry: RadioControlRegistry,\n    private _injector: Injector) {\n  }\n  /**\n * @description\n * A lifecycle method called when the directive is\n initialized. For internal use only.\n */\n  ngOnInit(): void {\n    this._control = this._injector.get(NgControl);\n    this._checkName();\n    this._registry.add(this._control, this);\n  }\n  /**\n * @description\n * Lifecycle method\n called before the directive's instance is destroyed. For internal use\n only.\n */\n  ngOnDestroy(): void {\n    this._registry.remove(this);\n  }\n  /**\n * @description\n * Sets the\n `"checked"` property value on the radio input element.\n */\n  @param value The checked value\n  writeValue(value: any): void {\n    this._state = value === this.value;\n    this._renderer.setProperty(this._elementRef.nativeElement, 'checked', this._state);\n  }\n  /**\n * @description\n * Registers a function called when the control value changes.\n */\n  @param fn The callback function\n  registerOnChange(fn: (_: any) => {}): void {\n    this._fn = fn;\n    this.onChange = () => {\n      fn(this.value);\n    }\n    this._registry.select(this);\n  }\n  /**\n * @description\n * Sets the `"value"` on the radio input element and unchecks it.\n */\n  @param value\n  fireUncheck(value: any): void {\n    this.writeValue(value);\n  }\n  /**\n * @description\n * Registers a function called when the control is touched.\n */\n  @param fn The callback\n function\n  registerOnTouched(fn: () => {}): void {\n    this.onTouched = fn;\n  }\n  /**\n * @description\n * Sets the `"disabled"` property on\n the input element.\n */\n  @param isDisabled The disabled value\n  setDisabledState(isDisabled: boolean):\n void {\n    this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\n  }\n  private\n _checkName(): void {\n    if (this.name && this.formControlName && this.name !== this.formControlName) {\n      this._throwNameError();\n    }\n    if (!this.name && this.formControlName) this.name = this.formControlName;\n  }\n  private\n _throwNameError(): void {\n    throw new Error(`\n      If you define both a name and a\n      formControlName attribute on your radio button, their values\n      must match. Ex: <input type="radio"\n      formControlName="food" name="food">\n    `);\n  }\n}\n\n"/**\n * @license\n * Copyright Google Inc. All

```

```

Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n
* found in the LICENSE file at https://angular.io/license\n */\n\nimport {Directive, ElementRef, Renderer2,\nStaticProvider, forwardRef} from '@angular/core';\n\nimport {ControlValueAccessor, NG_VALUE_ACCESSOR}\nfrom './control_value_accessor';\n\nexport const RANGE_VALUE_ACCESSOR: StaticProvider = {\n provide:\nNG_VALUE_ACCESSOR,\n useExisting: forwardRef(() => RangeValueAccessor),\n multi: true\n};\n\n/**\n * @description\n * The `ControlValueAccessor` for writing a range value and listening to range input changes.\n * The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel`\n * directives.\n *\n * @usageNotes\n * ### Using a range input with a reactive form\n * The following example shows how\n to use a range input with a reactive form.\n *\n * ``ts\n * const ageControl = new FormControl();\n *\n * ``\n *\n * <input type="range" [formControl]="ageControl">\n *\n * @ngModule ReactiveFormsModule\n * @ngModule FormsModule\n * @publicApi\n *\n */\n\n@Directive({\n selector:\n'input[type=range][formControlName],input[type=range][formControl],input[type=range][ngModel]',\n host: {\n '(change)': 'onChange($event.target.value)',\n '(input)': 'onChange($event.target.value)',\n '(blur)':\n'onTouched()' \n },\n providers: [RANGE_VALUE_ACCESSOR]\n})\nexport class RangeValueAccessor\nimplements ControlValueAccessor {\n /**\n * @description\n * The registered callback function called when a\n change or input event occurs on the input\n * element.\n *\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 */\n onTouched = () => {};\n\n constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {\n\n /**\n * Sets the "value" property on the input element.\n *\n * @param value The checked value\n *\n */\n writeValue(value: any): void {\n this._renderer.setProperty(this._elementRef.nativeElement,\n'value', parseFloat(value));\n }\n\n /**\n * @description\n * Registers a function called when the control value\n changes.\n *\n * @param fn The callback function\n *\n */\n registerOnChange(fn: (_: number|null) => void): void {\n this.onChange = (value) => { fn(value == null ? null : parseFloat(value)); }\n }\n\n /**\n * @description\n * Registers a function called when the control is touched.\n *\n * @param fn The callback function\n *\n */\n registerOnTouched(fn: () => void): void {\n this.onTouched = fn;\n }\n\n /**\n * Sets the "disabled" property on the\n range input element.\n *\n * @param isDisabled The disabled value\n *\n */\n setDisabledState(isDisabled:\nboolean): void {\n this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\n }\n }\n\n"/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is\n governed by an MIT-style license that can be\n * found in the LICENSE\n file at https://angular.io/license\n */\n\nexport const FormErrorExamples = {\n formControlName: `\n <div\n [formGroup]="myGroup">\n <input formControlName="firstName">\n </div>\n\n In your class:\n\n this.myGroup = new FormGroup({\n firstName: new FormControl()\n });\n\n formGroupName: `\n <div\n [formGroup]="myGroup">\n <div formGroupName="person">\n <input\n formControlName="firstName">\n </div>\n </div>\n\n In your class:\n\n this.myGroup = new\n FormGroup({\n person: new FormGroup({\n firstName: new FormControl()\n })\n });\n\n formArrayName: `\n <div [formGroup]="myGroup">\n <div formArrayName="cities">\n <div *ngFor="let city of\n cityArray.controls; index as i">\n <input [formControlName]="i">\n </div>\n </div>\n </div>\n\n In your class:\n\n this.cityArray = new FormArray([new FormControl('SF')]);\n this.myGroup = new\n FormGroup({\n cities: this.cityArray\n\n });\n\n ngModelGroup: `\n <form>\n <div ngModelGroup="person">\n <input\n [(ngModel)]="person.name" name="firstName">\n </div>\n </form>\n\n ngModelWithFormGroup: `\n <div [formGroup]="myGroup">\n <input formControlName="firstName">\n <input\n [(ngModel)]="showMoreControls" [ngModelOptions]="{standalone: true}">\n </div>\n `;\n\n"/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-\n style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport\n {FormErrorExamples as Examples} from './error_examples';\n\nexport class ReactiveErrors {\n static\n controlParentException(): void {\n throw new Error(`\n `formControlName must be used with a parent

```

formGroup directive. You'll want to add a formGroup directive and pass it an existing FormGroup instance (you can create one in your class).

Example: `{Examples.formControlName}));`

static ngModelGroupException(): void {  
throw new Error(  
`formControlName cannot be used with an ngModelGroup parent. It is only compatible with parents that also have a \"form\" prefix: formGroupName, formArrayName, or FormGroup.`)  
}

Option 1: Update the parent to be formGroupName (reactive form strategy)

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

Example: `{Examples.ngModelGroup}));`

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

Example: `{Examples.formControlName}));`

static groupParentException(): void {  
throw new Error(  
`formGroupName must be used with a parent FormGroup directive. You'll want to add a FormGroup directive and pass it an existing FormGroup instance (you can create one

in your class).`)  
}

Example: `{Examples.formArrayName}));`

static arrayParentException(): void {  
throw new Error(  
`formArrayName must be used with a parent FormGroup directive. You'll want to add a FormGroup directive and pass it an existing FormGroup instance (you can create one in your

class).`)  
}

Example: `{Examples.formArrayName}));`

static disabledAttrWarning(): void {  
console.warn(  
`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)`

});

static ngModelWarning.directiveName: string): void {  
console.warn(  
`It looks like you're using ngModel on the same form field as \${directiveName}. Support for using the ngModel input property and ngModelChange event with reactive form directives has been deprecated in Angular v6 and will be removed in Angular v7.`)  
}

For more information on this, see our API docs here:

[https://angular.io/api/forms/\\${directiveName} === 'formControl' ? 'FormControlDirective' : 'FormControlName'}#use-with-ngmodel](https://angular.io/api/forms/${directiveName} === 'formControl' ? 'FormControlDirective' : 'FormControlName'}#use-with-ngmodel)

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```
import {Directive, ElementRef, Host, Input, OnDestroy, Optional, Renderer2, StaticProvider, forwardRef, ÉµlooseIdentical 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];  
}
```

The `ControlValueAccessor` for writing select control values and listening to select control changes. The value accessor is used by the `FormControlDirective`,

`FormControlName`, and `NgModel` directives.

Using select controls in a reactive form

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

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 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.\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 * ``\n
* const selectedCountriesControl = new FormControl();\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/microsoft-edge/platform/issues/4660045/\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 })\n export 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 * @description\n * The registered callback
function called when a change event occurs on the input element.\n * \n onChange = (_: any) => {};\n /**\n *
@description\n * The registered callback function called when a blur event occurs on the input element.\n * \n
onTouched = () => {};\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 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" 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'})\n export 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

```





```

this.value = value;\n  let optionSelectedStateSetter: (opt: ÉµNgSelectMultipleOption, o: any) => void;\n  if
(Array.isArray(value)) {\n    // convert values to ids\n    const ids = value.map((v)
=> this._getOptionId(v));\n    optionSelectedStateSetter = (opt, o) => { opt._setSelected(ids.indexOf(o.toString())
> -1); }\n  } else {\n    optionSelectedStateSetter = (opt, o) => { opt._setSelected(false); }\n  }\n  this._optionMap.forEach(optionSelectedStateSetter);\n  }\n\n /**\n * @description\n * Registers a function
called when the control value changes\n * and writes an array of the selected options.\n * @param fn The
callback function\n * ^\n registerOnChange(fn: (value: any) => any): void {\n  this.onChange = (_: any) => {\n
const selected: Array<any> = [];\n  if (_.hasOwnProperty('selectedOptions')) {\n    const options:
HTMLCollection = _.selectedOptions;\n    for (let i = 0; i < options.length; i++) {\n      const opt: any =
options.item(i);\n      const val: any = this._getOptionValue(opt.value);\n      selected.push(val);\n    }\n  }\n  // Degrade on IE\n  else {\n    const options: HTMLCollection
= <HTMLCollection>_.options;\n    for (let i = 0; i < options.length; i++) {\n      const opt: HTMLOption =
options.item(i);\n      if (opt.selected) {\n        const val: any = this._getOptionValue(opt.value);\n
selected.push(val);\n      }\n    }\n  }\n  this.value = selected;\n  fn(selected);\n  };\n  }\n\n /**\n *
@description\n * Registers a function called when the control is touched.\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 * @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(value: ÉµNgSelectMultipleOption): string {\n
const id: string = (this._idCounter++).toString();\n  this._optionMap.set(id,
value);\n  return id;\n  }\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, 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) !._value : valueString;\n
}\n}\n\n /**\n * @description\n * Marks `<option>` as dynamic, so Angular can be notified when options change.\n
*\n * @see `SelectMultipleControlValueAccessor`\n * @ngModule ReactiveFormsModule\n * @ngModule
FormsModule\n * @publicApi\n * ^\n @Directive({ selector: 'option'})\nexport class ÉµNgSelectMultipleOption
implements OnDestroy {\n  // TODO(issue/24571): remove '!'\n  id!: string;\n  /** @internal * ^\n  _value: any;\n
}\n\n constructor(\n  private _element: ElementRef, private _renderer: Renderer2,\n  @Optional() @Host() private _select: SelectMultipleControlValueAccessor) {\n  if (this._select) {\n    this.id
= this._select._registerOption(this);\n  }\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._value = value;\n    this._setElementValue(_buildValueString(this.id, value));\n    this._select.writeValue(this._select.value);\n  }\n\n /**\n * @description\n * Tracks simple string values bound to the option element.\n * For objects, use the
`ngValue` input binding.\n * ^\n @Input('value')\n  set value(value: any) {\n    if (this._select) {\n      this._value =
value;\n      this._setElementValue(_buildValueString(this.id, value));\n    }\n    this._select.writeValue(this._select.value);\n  } else {\n    this._setElementValue(value);\n  }\n  }\n\n /** @internal * ^\n  _setElementValue(value: string): void {\n
this._renderer.setProperty(this._element.nativeElement, 'value', value);\n  }\n\n /** @internal * ^\n
_setSelected(selected: boolean) {\n  this._renderer.setProperty(this._element.nativeElement, 'selected', selected);\n
}\n\n /**\n * @description\n * Lifecycle method called before the directive's instance is destroyed. For internal
use only.\n * ^\n ngOnDestroy(): void {\n  if (this._select) {\n    this._select._optionMap.delete(this.id);\n
this._select.writeValue(this._select.value);\n  }\n  }\n}\n\nexport {ÉµNgSelectMultipleOption as
NgSelectMultipleOption};\n",\n /**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this
source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n * ^\n\nimport { isDevMode, ÉµlooseIdentical as looseIdentical } from
'@angular/core';\n\nimport { FormArray, FormControl, FormGroup } from './model';\n\nimport

```

```

    {Validators} from './validators';\nimport {AbstractControlDirective} from './abstract_control_directive';\nimport
    {AbstractFormGroupDirective} from './abstract_form_group_directive';\nimport {CheckboxControlValueAccessor}
    from './checkbox_value_accessor';\nimport {ControlContainer} from './control_container';\nimport
    {ControlValueAccessor} from './control_value_accessor';\nimport {DefaultValueAccessor} from
    './default_value_accessor';\nimport {NgControl} from './ng_control';\nimport {normalizeAsyncValidator,
    normalizeValidator} from './normalize_validator';\nimport {NumberValueAccessor} from
    './number_value_accessor';\nimport {RadioControlValueAccessor} from './radio_control_value_accessor';\nimport
    {RangeValueAccessor} from './range_value_accessor';\nimport {FormArrayName} from
    './reactive_directives/form_group_name';\nimport {ReactiveErrors} from './reactive_errors';\nimport
    {SelectControlValueAccessor} from './select_control_value_accessor';\nimport
    {SelectMultipleControlValueAccessor}
    from './select_multiple_control_value_accessor';\nimport {AsyncValidator, AsyncValidatorFn, Validator,
    ValidatorFn} from './validators';\n\n\nexport function controlPath(name: string | null, parent: ControlContainer):
    string[] {\n  return [...parent.path !, name !];\n}\n\nexport function setUpControl(control: FormControl, dir:
    NgControl): void {\n  if (!control) _throwError(dir, 'Cannot find control with');\n  if (!dir.valueAccessor)
    _throwError(dir, 'No value accessor for form control with');\n  control.validator =
    Validators.compose([control.validator !, dir.validator]);\n  control.asyncValidator =
    Validators.composeAsync([control.asyncValidator !, dir.asyncValidator]);\n  dir.valueAccessor
    !.writeValue(control.value);\n  setUpViewChangePipeline(control, dir);\n  setUpModelChangePipeline(control,
    dir);\n  setUpBlurPipeline(control, dir);\n  if (dir.valueAccessor !.setDisabledState) {\n
    control.registerOnDisabledChange(\n    (isDisabled: boolean)
    => { dir.valueAccessor !.setDisabledState !(isDisabled); });\n  }\n  // re-run validation when validator binding
    changes, e.g. minlength=3 -> minlength=4\n  dir._rawValidators.forEach((validator: Validator | ValidatorFn) => {\n
    if ((<Validator>validator).registerOnValidatorChange)\n    (<Validator>validator).registerOnValidatorChange !(()
    => control.updateValueAndValidity());\n  });\n  dir._rawAsyncValidators.forEach((validator: AsyncValidator |
    AsyncValidatorFn) => {\n    if ((<Validator>validator).registerOnValidatorChange)\n
    (<Validator>validator).registerOnValidatorChange !(() => control.updateValueAndValidity());\n  });\n}\n\nexport
    function cleanUpControl(control: FormControl, dir: NgControl) {\n  dir.valueAccessor !.registerOnChange(() =>
    _noControlError(dir));\n  dir.valueAccessor !.registerOnTouched(() => _noControlError(dir));\n  dir._rawValidators.forEach((validator: any) => {\n    if (validator.registerOnValidatorChange) {\n
    validator.registerOnValidatorChange(null);\n
    }\n  });\n  dir._rawAsyncValidators.forEach((validator: any) => {\n    if (validator.registerOnValidatorChange)
    {\n    validator.registerOnValidatorChange(null);\n    }\n  });\n  if (control)
    control._clearChangeFns();\n}\n\nfunction setUpViewChangePipeline(control: FormControl, dir: NgControl): void
    {\n  dir.valueAccessor !.registerOnChange((newValue: any) => {\n    control._pendingValue = newValue;\n
    control._pendingChange = true;\n    control._pendingDirty = true;\n    if (control.updateOn === 'change')
    updateControl(control, dir);\n  });\n}\n\nfunction setUpBlurPipeline(control: FormControl, dir: NgControl): void {\n
    dir.valueAccessor !.registerOnTouched(() => {\n    control._pendingTouched = true;\n    if (control.updateOn ===
    'blur' && control._pendingChange) updateControl(control, dir);\n    if (control.updateOn !== 'submit')
    control.markAsTouched();\n  });\n}\n\nfunction updateControl(control: FormControl, dir: NgControl): void {\n  if
    (control._pendingDirty)
    control.markAsDirty();\n  control.setValue(control._pendingValue, {emitModelToViewChange: false});\n
    dir.viewToModelUpdate(control._pendingValue);\n  control._pendingChange = false;\n}\n\nfunction
    setUpModelChangePipeline(control: FormControl, dir: NgControl): void {\n  control.registerOnChange((newValue:
    any, emitModelEvent: boolean) => {\n    // control -> view\n    dir.valueAccessor !.writeValue(newValue);\n
    // control -> ngModel\n    if (emitModelEvent) dir.viewToModelUpdate(newValue);\n  });\n}\n\nexport function
    setUpFormContainer(\n  control: FormGroup | FormArray, dir: AbstractFormGroupDirective | FormArrayName)
    {\n  if (control == null) _throwError(dir, 'Cannot find control with');\n  control.validator =
  
```

```

Validators.compose([control.validator, dir.validator]);\n control.asyncValidator =
Validators.composeAsync([control.asyncValidator, dir.asyncValidator]);\n\nfunction _noControlError(dir:
NgControl) {\n return _throwError(dir, 'There is no FormControl
instance attached to form control element with');\n}\n\nfunction _throwError(dir: AbstractControlDirective,
message: string): void {\n let messageEnd: string;\n if (dir.path != null && dir.path.length > 1) {\n messageEnd = `path:
${dir.path!.join(' -> ')} `;\n } else if (dir.path != null && dir.path.length == 1) {\n messageEnd = `name: ${dir.path}`;\n } else {\n
messageEnd = 'unspecified name attribute';\n }\n throw new Error(`${message} ${messageEnd}`);\n}\n\nexport
function composeValidators(validators: Array<Validator|ValidatorFn>): ValidatorFn|null {\n return validators !=
null ? Validators.compose(validators.map(normalizeValidator)) : null;\n}\n\nexport function
composeAsyncValidators(validators: Array<AsyncValidator|AsyncValidatorFn>): AsyncValidatorFn|null {\n
return validators != null ? Validators.composeAsync(validators.map(normalizeAsyncValidator)) :\n
null;\n}\n\nexport function isPropertyUpdated(changes: {[key: string]: any}, viewModel: any): boolean {\n if
(!changes.hasOwnProperty('model'))\n return false;\n const change = changes['model'];\n if (change.isFirstChange()) return true;\n return
!looseIdentical(viewModel, change.currentValue);\n}\n\nconst BUILTIN_ACCESSORS = [\n
CheckboxControlValueAccessor,\n RangeValueAccessor,\n NumberValueAccessor,\n
SelectControlValueAccessor,\n SelectMultipleControlValueAccessor,\n
RadioControlValueAccessor,\n];\n\nexport function isBuiltinAccessor(valueAccessor: ControlValueAccessor):
boolean {\n return BUILTIN_ACCESSORS.some(a => valueAccessor.constructor === a);\n}\n\nexport function
syncPendingControls(form: FormGroup, directives: NgControl[]): void {\n form._syncPendingControls();\n
directives.forEach(dir => {\n const control = dir.control as FormControl;\n if (control.updateOn === 'submit'
&& control._pendingChange) {\n dir.viewToModelUpdate(control._pendingValue);\n
control._pendingChange = false;\n }\n });\n}\n\n// TODO: vsavkin remove it once
https://github.com/angular/angular/issues/3011\n\nis implemented\n\nexport function selectValueAccessor(\n dir: NgControl, valueAccessors:
ControlValueAccessor[]): ControlValueAccessor|null {\n if (!valueAccessors) return null;\n if
(!Array.isArray(valueAccessors))\n _throwError(dir, 'Value accessor was not provided as an array for form control
with');\n let defaultAccessor: ControlValueAccessor|undefined = undefined;\n let builtinAccessor:
ControlValueAccessor|undefined = undefined;\n let customAccessor: ControlValueAccessor|undefined =
undefined;\n valueAccessors.forEach((v: ControlValueAccessor) => {\n if (v.constructor ===
DefaultValueAccessor) {\n defaultAccessor = v;\n } else if (isBuiltinAccessor(v)) {\n if
(builtinAccessor)\n _throwError(dir, 'More than one built-in value accessor matches form control with');\n
builtinAccessor = v;\n } else {\n if (customAccessor)\n _throwError(dir, 'More than one custom value
accessor matches form control
with');\n customAccessor = v;\n }\n });\n if (customAccessor) return customAccessor;\n if
(builtinAccessor) return builtinAccessor;\n if (defaultAccessor) return defaultAccessor;\n\n _throwError(dir, 'No
valid value accessor for form control with');\n return null;\n}\n\nexport function removeDir<T>(list: T[], el: T):
void {\n const index = list.indexOf(el);\n if (index > -1) list.splice(index, 1);\n}\n\n// TODO(kara): remove after
deprecation period\n\nexport function _ngModelWarning(\n name: string, type: {_ngModelWarningSentOnce:
boolean},\n instance: {_ngModelWarningSent: boolean}, warningConfig: string | null) {\n if (!isDevMode() ||
warningConfig === 'never') return;\n if (((warningConfig === null || warningConfig === 'once') &&
!type._ngModelWarningSentOnce) ||\n (warningConfig === 'always' && !instance._ngModelWarningSent)) {\n
ReactiveErrors.ngModelWarning(name);\n type._ngModelWarningSentOnce = true;\n
instance._ngModelWarningSent = true;\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 { EventEmitter } from '@angular/core';\nimport { Observable } from 'rxjs';\nimport
{composeAsyncValidators, composeValidators} from './directives/shared';\nimport { AsyncValidatorFn,

```

```

ValidationErrors, ValidatorFn} from './directives/validators';\nimport {Observable} from './validators';\n\n/**\n * Reports that a FormControl is valid, meaning that no errors exist in the input value.\n * @see `status`\n */\nexport const VALID = 'VALID';\n\n/**\n * Reports that a FormControl is invalid, meaning that an error exists\n * in the input value.\n * @see `status`\n */\nexport const INVALID = 'INVALID';\n\n/**\n * Reports that a\n * FormControl is pending, meaning that that async validation is occurring and\n * errors are not yet available for the\n * input value.\n * @see\n * `markAsPending`\n * @see `status`\n */\nexport const PENDING = 'PENDING';\n\n/**\n * Reports that a\n * FormControl is disabled, meaning that the control is exempt from ancestor\n * calculations of validity or value.\n * @see `markAsDisabled`\n * @see `status`\n */\nexport const DISABLED = 'DISABLED';\n\nfunction\n _find(control: AbstractControl, path: Array<string|number>| string, delimiter: string) {\n   if (path == null) return\n   null;\n   if (!Array.isArray(path)) {\n     path = path.split(delimiter);\n   }\n   if (Array.isArray(path) && path.length\n   === 0) return null;\n   // Not using Array.reduce here due to a Chrome 80 bug\n   //\n   https://bugs.chromium.org/p/chromium/issues/detail?id=1049982\n   let controlToFind: AbstractControl|null =\n   control;\n   path.forEach((name: string | number) => {\n     if (controlToFind instanceof FormGroup) {\n       controlToFind = controlToFind.controls.hasOwnProperty(name as string) ?\n       controlToFind.controls[name]\n       :\n       null;\n     } else if\n     (controlToFind instanceof FormArray) {\n       controlToFind = controlToFind.at(<number>name) || null;\n     } else\n     {\n       controlToFind = null;\n     }\n   });\n   return controlToFind;\n }\n\nfunction coerceToValidator(\n validatorOrOpts?: ValidatorFn | ValidatorFn[] | AbstractControlOptions | null): ValidatorFn\n   null {\n   const\n   validator =\n     (isOptionsObj(validatorOrOpts) ? (validatorOrOpts as AbstractControlOptions).validators :\n     validatorOrOpts as ValidatorFn | ValidatorFn[] | null);\n   return Array.isArray(validator) ?\n   composeValidators(validator) : validator || null;\n }\n\nfunction coerceToAsyncValidator(\n   asyncValidator?:\n   AsyncValidatorFn | AsyncValidatorFn[] | null, validatorOrOpts?: ValidatorFn | ValidatorFn[] |\n   AbstractControlOptions | null): AsyncValidatorFn|null {\n   const origAsyncValidator =\n   (isOptionsObj(validatorOrOpts) ? (validatorOrOpts as AbstractControlOptions).asyncValidators :\n   asyncValidator) as AsyncValidatorFn | AsyncValidatorFn | null;\n   return\n   Array.isArray(origAsyncValidator) ? composeAsyncValidators(origAsyncValidator) :\n   origAsyncValidator || null;\n }\n\nexport type FormHooks = 'change' | 'blur' | 'submit';\n\n/**\n * Interface for\n * options provided to an `AbstractControl`.\n * @publicApi\n */\nexport interface AbstractControlOptions {\n  /**\n   * @description\n   * The list of validators applied to a control.\n   */\n  validators?:\n   ValidatorFn|ValidatorFn[]|null;\n  /**\n   * @description\n   * The list of async validators applied to control.\n   */\n  asyncValidators?:\n   AsyncValidatorFn|AsyncValidatorFn[]|null;\n  /**\n   * @description\n   * The event name for\n   * control to update upon.\n   */\n  updateOn?: 'change'|'blur'|'submit';\n  /**\n   * @description\n   * A function that returns\n   * true if the control is valid.\n   */\n  isValid?:\n   (validatorOrOpts?: ValidatorFn | ValidatorFn[] | AbstractControlOptions | null): boolean {\n     return\n     validatorOrOpts != null && !Array.isArray(validatorOrOpts) &&\n     typeof validatorOrOpts ===\n     'object';\n   }\n }\n\n/**\n * This is the base class for `FormControl`, `FormGroup`, and `FormArray`.\n * It provides\n * some of the shared behavior that all controls and groups of controls have, like\n * running validators, calculating\n * status, and resetting state. It also defines the properties\n * that are shared between all sub-classes, like `value`,\n * `valid`, and `dirty`. It shouldn't be\n * instantiated directly.\n * @see [Forms Guide](/guide/forms)\n * @see\n * [Reactive Forms Guide](/guide/reactive-forms)\n * @see [Dynamic Forms Guide](/guide/dynamic-form)\n */\n@publicApi\nexport abstract class AbstractControl {\n  /** @internal */\n  // TODO(issue/24571): remove '!.\n  _pendingDirty !: boolean;\n  /** @internal */\n  // TODO(issue/24571): remove '!.\n  _pendingTouched !:\n   boolean;\n  /** @internal */\n  _onCollectionChange = () => {};\n  /** @internal */\n  // TODO(issue/24571):\n   remove '!.\n  _updateOn !: FormHooks;\n  /** @internal */\n  // TODO(issue/24571): remove '!.\n  private _parent !: FormGroup | FormArray;\n  private _asyncValidationSubscription: any;\n  /**\n   * The current value of the control.\n   */\n  value: any;\n  /**\n   * For a `FormControl`, the current value.\n   */\n  /**\n   * For an enabled `FormGroup`, the values of enabled controls as an\n   * object\n   * with a key-value pair for each member of the group.\n   */\n  /**\n   * For a disabled `FormGroup`, the values of all\n   * controls as an object\n   * with a key-value pair for each member of the group.\n   */\n  /**\n   * For a `FormArray`, the values

```

of enabled controls as an array.

```

    public readonly value: any;
    /**
     * Initialize the AbstractControl instance.
     * @param validator The function that determines the synchronous validity of this control.
     * @param asyncValidator The function that determines the asynchronous validity of this control.
     * constructor(public validator: ValidatorFn|null, public asyncValidator: AsyncValidatorFn|null) {}
     */
    /**
     * The parent control.
     * get parent(): FormGroup|FormArray { return this._parent; }
     */
    /**
     * The validation status of the control. There are four possible validation status values:
     * ***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.
     */
    // TODO(issue/24571): remove '!'.
    public readonly status!: string;
    /**
     * A control is `valid` when its `status` is `VALID`.
     * @see {@link AbstractControl.status}
     * @returns True if the control has passed all of its validation tests, false otherwise.
     */
    get valid(): boolean { return this.status === VALID; }
    /**
     * A control is `invalid` when its `status` is `INVALID`.
     * @see {@link AbstractControl.status}
     * @returns True if this control has failed one or more of its validation checks, false otherwise.
     */
    get invalid(): boolean { return this.status === INVALID; }
    /**
     * A control is `pending` when its `status` is `PENDING`.
     * @see {@link AbstractControl.status}
     * @returns True if this control is in the process of conducting a validation check, false otherwise.
     */
    get pending(): boolean { return this.status === PENDING; }
    /**
     * A control is `disabled` when its `status` is `DISABLED`.
     * Disabled controls are exempt from validation checks and are not included in the aggregate value of their ancestor controls.
     * @see {@link AbstractControl.status}
     * @returns True if the control is disabled, false otherwise.
     */
    get disabled(): boolean { return this.status === DISABLED; }
    /**
     * A control is `enabled` as long as its `status` is not `DISABLED`.
     * @returns True if the control has any status other than 'DISABLED', false if the status is 'DISABLED'.
     * @see {@link AbstractControl.status}
     */
    get enabled(): boolean { return this.status !== DISABLED; }
    /**
     * An object containing any errors generated by failing validation, or null if there are no errors.
     */
    // TODO(issue/24571): remove '!'.
    public readonly errors!: ValidationErrors | null;
    /**
     * A control is `pristine` if the user has not yet changed the value in the UI.
     * @returns True if the user has not yet changed the value in the UI; compare `dirty`.
     * Programmatic changes to a control's value do not mark it dirty.
     */
    public readonly pristine: boolean = true;
    /**
     * A control is `dirty` if the user has changed the value in the UI.
     * @returns True if the user has changed the value of this control in the UI; compare `pristine`.
     * Programmatic changes to a control's value do not mark it dirty.
     */
    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.
     */
    public readonly touched: boolean = false;
    /**
     * True if the control has not been marked as touched.
     * A control is `untouched` if the user has not yet triggered a `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 passing along {emitEvent: false} as a function argument.
     */
    // TODO(issue/24571): remove '!'.
    public readonly valueChanges!: Observable<any>;
    /**
     * A multicasting observable that emits an event every time the validation `status` of the control recalculates.
     * @see {@link AbstractControl.status}
     */
    // TODO(issue/24571): remove '!'.
    public readonly statusChanges!: 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 ? this._updateOn : (this.parent ? this.parent.updateOn : 'change'); }
    /**
     * Sets the synchronous validators that are active on this control. Calling this overwrites any existing sync validators.
     * When you add or remove a validator at run time, you must call
     */

```

```

`updateValueAndValidity()` for the new validation to take effect.\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 * \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 * \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\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 * \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 `markAsTouched()`\n * @see `markAsUntouched()`\n * @see `markAsDirty()`\n * \n * @param opts
Configuration options that determine how the control emits events after\n * 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 * \n markAsPristine(opts: {onlySelf?: boolean} = {}): void {\n (this as{pristine: boolean}).pristine = true;\n
\n this._pendingDirty = false;\n\n this._forEachChild((control: AbstractControl) => {
control.markAsPristine({onlySelf: true}); });\n\n if (this._parent && !opts.onlySelf) {\n
this._parent._updatePristine(opts);\n }\n }\n\n /**\n * Marks the control as `pending`.\n * \n * A control is
pending while the control performs async validation.\n * \n * @see {@link AbstractControl.status}\n * \n *
@param opts Configuration options that determine how the control propagates changes and\n * 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.

```

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);
  }
}

```

`disable`: Disables the control. This means the control is exempt from validation checks and excluded from the aggregate value of any parent. Its status is `DISABLED`.

- If the control has children, all children are also disabled.
- `@see` {[@link AbstractControl.status](#)}
- `@param` `opts` Configuration options that determine how the control propagates changes and emits events after the control is disabled.

```

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(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  // If parent has been marked artificially dirty we don't want to re-calculate the
  // parent's dirtiness based on the children.
  const skipPristineCheck = this._parentMarkedDirty(opts.onlySelf);
  (this as {status: string}).status = DISABLED;
  (this as {errors: ValidationErrors | null}).errors = null;
  this._forEachChild((control: AbstractControl) => {
    control.disable({...opts, onlySelf: true});
  });
  this._updateValue();
  if (opts.emitEvent !== false) {
    (this.valueChanges as EventEmitter<any>).emit(this.value);
    (this.statusChanges as EventEmitter<string>).emit(this.status);
  }
  this._updateAncestors({...opts, skipPristineCheck});
  this._onDisabledChange.forEach((changeFn) => changeFn(true));
}

```

`enable`: Enables the control. This means the control is included in validation checks and the aggregate value of its parent. Its status recalculates based on its value and its validators.

- By default, if the control has children, all children are enabled.
- `@see` {[@link AbstractControl.status](#)}
- `@param` `opts` Configure options that control how the control propagates changes and emits events when marked as untouched.

```

onlySelf: When true, mark only this control. When false or not supplied, marks all direct ancestors. Default is false.
emitEvent: When true or not supplied (the default), both the `statusChanges` and `valueChanges` observables emit events with the latest status and value when the control is enabled. When false, no events are emitted.
enable(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  // If parent has been marked artificially dirty we don't want to re-calculate the
  // parent's dirtiness based on the children.
  const skipPristineCheck = this._parentMarkedDirty(opts.onlySelf);
  (this as {status: string}).status = VALID;
  this._forEachChild((control: AbstractControl) => {
    control.enable({...opts, onlySelf: true});
  });
  this.updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});
  this._updateAncestors({...opts, skipPristineCheck});
  this._onDisabledChange.forEach((changeFn) => changeFn(false));
}
private _updateAncestors(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();
  }
}

```

`setParent`: Sets the parent of the control.

```

setParent(parent: FormGroup|FormArray): void {
  this._parent = parent;
}

```

`setValue`: Sets the value of the control. Abstract method (implemented in sub-classes).

```

abstract setValue(value: any, options?: Object): void;

```

`patchValue`: Patches the value of the control. Abstract method (implemented in sub-classes).

```

abstract patchValue(value: any, options?: Object): void;

```

`reset`: Resets the control. Abstract method (implemented in sub-classes).

```

abstract reset(value?: any, options?: Object): void;

```

`recalculateValueAndValidity`: 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,\n * update all direct ancestors. Default is 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 updated.\n * When false, no events are emitted.\n */\n
updateValueAndValidity(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {\n
this._setInitialStatus();\n this._updateValue();\n\n if (this.enabled) {\n this._cancelExistingSubscription();\n
(this as {errors: ValidationErrors | null}).errors = this._runValidator();\n (this as {status: string}).status =
this._calculateStatus();\n\n if (this.status === VALID || this.status === PENDING)
{\n this._runAsyncValidator(opts.emitEvent);\n }\n }\n\n if (opts.emitEvent !== false) {\n
(this.valueChanges as EventEmitter<any>).emit(this.value);\n (this.statusChanges as
EventEmitter<string>).emit(this.status);\n }\n\n if (this._parent && !opts.onlySelf) {\n
this._parent.updateValueAndValidity(opts);\n }\n }\n\n /** @internal */\n _updateTreeValidity(opts:
{emitEvent?: boolean} = {emitEvent: true}): void {\n this._forEachChild((ctrl: AbstractControl) =>
ctrl._updateTreeValidity(opts));\n this.updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});\n
}\n\n private _setInitialStatus() {\n (this as {status: string}).status = this._allControlsDisabled() ? DISABLED :
VALID;\n }\n\n private _runValidator(): ValidationErrors|null {\n return this.validator ? this.validator(this) :
null;\n }\n\n private _runAsyncValidator(emitEvent?: boolean): void {\n if (this.asyncValidator) {\n (this
as {status: string}).status
= PENDING;\n const obs = toObservable(this.asyncValidator(this));\n this._asyncValidationSubscription =\n
obs.subscribe((errors: ValidationErrors | null) => this.setErrors(errors, {emitEvent}));\n }\n }\n\n private
_cancelExistingSubscription(): void {\n if (this._asyncValidationSubscription) {\n
this._asyncValidationSubscription.unsubscribe();\n }\n }\n\n /**\n * Sets errors on a form control when running
validations manually, rather than automatically.\n * \n * Calling `setErrors` also updates the validity of the parent
control.\n * \n * @usageNotes\n * ### Manually set the errors for a control\n * \n * ```\n * const login = new
FormControl('someLogin');\n * login.setErrors({\n * notUnique: true\n * });\n * \n *
expect(login.valid).toEqual(false);\n * expect(login.errors).toEqual({ notUnique: true });\n * \n *
login.setValue('someOtherLogin');\n * \n * expect(login.valid).toEqual(true);\n * ```\n */\n setErrors(errors:
ValidationErrors|null, opts: {emitEvent?: boolean} = {}): void {\n (this as {errors: ValidationErrors | null}).errors
= errors;\n this._updateControlsErrors(opts.emitEvent !== false);\n }\n\n /**\n * Retrieves a child control given
the control's name or path.\n * \n * @param path A dot-delimited string or array of string/number values that
define the path to the\n * control.\n * \n * @usageNotes\n * ### Retrieve a nested control\n * \n * For
example, to get a `name` control nested within a `person` sub-group:\n * \n * * `this.form.get('person.name');`\n
*\n * -OR-\n * \n * * `this.form.get(['person', 'name']);`\n * \n */\n get(path: Array<string|number>|string):
AbstractControl|null { return _find(this, path, '.'); }\n\n /**\n * @description\n * Reports error data for the
control with the given path.\n * \n * @param errorCode The code of the error to check\n * @param path A list of
control names that designates how to move from the
current control\n * to the control that should be queried for errors.\n * \n * @usageNotes\n * For example, for
the following `FormGroup`:\n * \n * ```\n * form = new FormGroup({\n * address: new FormGroup({ street:
new FormControl() })\n * });\n * ```\n * \n * The path to the 'street' control from the root form would be
'address' -> 'street'.\n * \n * It can be provided to this method in one of two formats:\n * \n * 1. An array of string
control names, e.g. `['address', 'street']`\n * \n * 1. A period-delimited list of control names in one string, e.g.
`address.street`\n * \n * @returns error data for that particular error. If the control or error is not present,\n * null
is returned.\n * \n */\n getError(errorCode: string, path?: Array<string|number>|string): any {\n const control = path ?
this.get(path) : this;\n return control && control.errors ? control.errors[errorCode] : null;\n }\n\n /**\n *
@param description\n * Reports whether the control
with the given path has the error specified.\n * \n * @param errorCode The code of the error to check\n *
@param path A list of control names that designates how to move from the current control\n * to the control that
should be queried for errors.\n * \n * @usageNotes\n * For example, for the following `FormGroup`:\n * \n *
```
\n * form = new FormGroup({\n * address: new FormGroup({ street: new FormControl() })\n * });\n * ```\n

```

```

*\n * The path to the 'street' control from the root form would be 'address' -> 'street'.\n *\n * It can be provided
to this method in one of two formats:\n *\n * 1. An array of string control names, e.g. `['address', 'street']`\n * 1.
A period-delimited list of control names in one string, e.g. `address.street`\n *\n * If no path is given, this method
checks for the error on the current control.\n *\n * @returns whether the given error is present in the control at the
given path.\n *\n * If the control is
not present, false is returned.\n */
hasError(errorCode: string, path?: Array<string|number>|string): boolean {\n
return !!this.getError(errorCode, path);\n }\n\n/**\n * Retrieves the top-level ancestor of this control.\n */
getRoot(): AbstractControl {\n let x: AbstractControl = this;\n\n while (x._parent) {\n x = x._parent;\n }\n\n return x;\n }\n\n/** @internal */
_updateControlsErrors(emitEvent: boolean): void {\n (this as {status: string}).status = this._calculateStatus();\n\n if (emitEvent) {\n (this.statusChanges as
EventEmitter<string>).emit(this.status);\n }\n\n if (this._parent) {\n
this._parent._updateControlsErrors(emitEvent);\n }\n }\n\n/** @internal */
_initObservables() {\n (this as {valueChanges: Observable<any>}).valueChanges = new EventEmitter();\n (this as {statusChanges:
Observable<any>}).statusChanges = new EventEmitter();\n }\n\n private _calculateStatus(): string {\n if
(this._allControlsDisabled())\n return DISABLED;\n if (this.errors) return INVALID;\n if (this._anyControlsHaveStatus(PENDING)) return
PENDING;\n if (this._anyControlsHaveStatus(INVALID)) return INVALID;\n return VALID;\n }\n\n /**
@internal */
abstract _updateValue(): void;\n\n /** @internal */
abstract _forEachChild(cb: Function): void;\n\n /** @internal */
abstract _anyControls(condition: Function): boolean;\n\n /** @internal */
abstract _allControlsDisabled(): boolean;\n\n /** @internal */
abstract _syncPendingControls(): boolean;\n\n /**
@internal */
_anyControlsHaveStatus(status: string): boolean {\n return this._anyControls((control:
AbstractControl) => control.status === status);\n }\n\n /** @internal */
_anyControlsDirty(): boolean {\n return this._anyControls((control: AbstractControl) => control.dirty);\n }\n\n /** @internal */
_anyControlsTouched(): boolean {\n return this._anyControls((control: AbstractControl) => control.touched);\n
}\n\n /** @internal */
_updatePristine(opts: {onlySelf?: boolean} = {}): void {\n (this as {pristine:
boolean}).pristine = !this._anyControlsDirty();\n\n if (this._parent && !opts.onlySelf) {\n
this._parent._updatePristine(opts);\n }\n }\n\n /** @internal */
_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 */
_onDisabledChange:
Function[] = [];\n\n /** @internal */
_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 */
_registerOnCollectionChange(fn: () => void): void {\n
this._onCollectionChange = fn;\n }\n\n /** @internal */
_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 */
private _parentMarkedDirty(onlySelf?: boolean): boolean {\n const
parentDirty = this._parent && this._parent.dirty;\n return !onlySelf && parentDirty &&
!this._parent._anyControlsDirty();\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` 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 * console.log(control.value); // 'Nancy'\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 * ```ts\n * const control = new FormControl('Nancy');\n * \n *
console.log(control.value); // 'Nancy'\n * console.log(control.status); // 'VALID'\n * control.reset({ value:
'Drew', disabled: true });\n * console.log(control.value); // 'Drew'\n * console.log(control.status); //
'DISABLED'\n * ```\n * \n * @publicApi\n * \n * export class FormControl extends AbstractControl {\n * /** @internal
*\n * _onChange: Function[] = [];\n * /** @internal *\n * _pendingValue: any;\n * /** @internal *\n *
_pendingChange: any;\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
   this._setUpdateStrategy(validatorOrOpts);\n   this.updateValueAndValidity({onlySelf: true, emitEvent: false});\n
   this._initObservables();\n   }\n * \n * Sets a new value for the form control.\n * \n * @param value The new
value for the control.\n * \n * @param options Configuration options that determine how the control propagates
changes\n * and emits events when the value changes.\n * \n * The configuration options are passed to the {@link
AbstractControl#updateValueAndValidity\n * updateValueAndValidity} method.\n * \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 value is updated.\n * \n * When false, no events are emitted.\n * *
`emitModelToViewChange`:  

When true or not supplied (the default), each change triggers an\n * `onChange`
event to\n * update the view.\n * * `emitViewToModelChange`:  

When true or not supplied (the default), each
change triggers an\n * `ngModelChange`\n * event to update the model.\n * \n * \n * setValue(value: any,
options: {\n   onlySelf?: boolean,\n   emitEvent?: boolean,\n   emitModelToViewChange?: boolean,\n
   emitViewToModelChange?: boolean\n   }) = void {\n   (this as {value: any}).value = this._pendingValue =
value;\n   if (this._onChange.length && options.emitModelToViewChange !== false) {\n
   this._onChange.forEach(\n     (changeFn) => changeFn(this.value, options.emitViewToModelChange !== false));\n   }\n
   this.updateValueAndValidity(options);\n   }\n * \n * Patches the value of a control.\n * \n * This function is
functionally the same as {@link FormControl#setValue\n * setValue} at this level.\n * \n * It exists for symmetry with
{@link FormGroup#patchValue\n * patchValue} on `FormGroups` and\n * `FormArrays`, where it does behave
differently.\n * \n * @see `setValue` for options\n * \n * patchValue(value: any, options: {\n   onlySelf?:
boolean,\n   emitEvent?: boolean,\n   emitModelToViewChange?: boolean,\n   emitViewToModelChange?:

```

```

boolean } = {}): void {
  this.setValue(value, options);
}

/**
 * Resets the form control, marking it
`pristine` and `untouched`, and setting
 * the value to null.
 * @param formState Resets the control with
an initial value,
 * or an object that defines the initial value and disabled state.
 * @param
options Configuration options that determine how the control propagates changes
 * 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 reset(formState: any = null, options: {onlySelf?: boolean, emitEvent?:
boolean} = {}): void {
  this._applyFormState(formState);
  this.markAsPristine(options);
  this.markAsUntouched(options);
  this.setValue(this.value, options);
  this._pendingChange = false;
}

/**
 * @internal
 * @param _updateValue() {}
 * @internal
 * @param _anyControls(condition: Function):
boolean { return false; }
 * @internal
 * @param _allControlsDisabled():
boolean { return this.disabled; }

/**
 * Register a listener for change events.
 * @param fn The
method that is called when the value changes
 * @param registerOnChange(fn: Function): void {
this._onChange.push(fn);
}

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

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

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

private
_applyFormState(formState: any) {
  if (this._isBoxedValue(formState)) {
    (this as {value: any}).value =
this._pendingValue = formState.value;
    formState.disabled ? this.disable({onlySelf: true, emitEvent: false}) :
this.enable({onlySelf: true, emitEvent: false});
  } else {
    (this as {value: any}).value =
this._pendingValue = formState;
  }
}

/**
 * Tracks the value and validity state of a group of
`FormControl` instances.
 * @param 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.
 * @param `FormGroup`
is one of the three fundamental building blocks
used to define forms in Angular,
 * along with `FormControl` and `FormArray`.
 * @param 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.
 * @usageNotes
 * ### Create a form group with 2 controls
 * ```
const
form = new FormGroup({
  first: new FormControl('Nancy', Validators.minLength(2)),
  last: new
FormControl('Drew'),
});
console.log(form.value); // {first: 'Nancy', last: 'Drew'}
console.log(form.status); // 'VALID'
 * ### Create a form group with a group-level validator
 * You include group-level validators as the second arg, or group-level async
 * validators as the third arg. These
come in handy when you want to perform validation
 * that considers the value of more than one child control.
 * ```
const form = new FormGroup({
  password: new FormControl("", Validators.minLength(2)),
  passwordConfirm:
new FormControl("", Validators.minLength(2)),
}, passwordMatchValidator);
 * function
passwordMatchValidator(g: FormGroup) {
  return g.get('password').value ===
g.get('passwordConfirm').value
    ? null : {'mismatch': true};
}
 * Like `FormControl`
instances, you choose to pass in
 * validators and async validators as part of an options object.
 * ```
const
form = new FormGroup({
  password: new FormControl(""),
  passwordConfirm: new FormControl(""),
}, {
  validators: passwordMatchValidator,
  asyncValidators: otherValidator
});
 * ### 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.

```

const c = new FormGroup({
  one: new FormControl(), { updateOn: 'blur' });
}
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 or array of async validator functions
   */
  constructor(
    public controls: {[key: string]: AbstractControl},
    validatorOrOpts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,
    asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[]|null) {
    super(
      coerceToValidator(validatorOrOpts),
      coerceToAsyncValidator(asyncValidator, validatorOrOpts));
    this._initObservables();
    this._setUpUpdateStrategy(validatorOrOpts);
    this._setUpControls();
    this.updateValueAndValidity({ onlySelf: true, emitEvent: false });
  }

  /** Registers a control with the group's list of controls. This method does not update the value or validity of the control. Use {@link FormGroup#addControl addControl} instead.
   * @param name The control name to register in the collection
   * @param control Provides the control for the given name
   */
  registerControl(name: string, control: AbstractControl): AbstractControl {
    if (this.controls[name]) return this.controls[name];
    this.controls[name] = control;
    control.setParent(this);
    control._registerOnCollectionChange(this._onCollectionChange);
    return control;
  }

  /** Add a control to this group. This method also updates the value and validity of the control.
   * @param name The control name to add to the collection
   * @param control Provides the control for the given name
   */
  addControl(name: string, control: AbstractControl): void {
    this.registerControl(name, control);
    this.updateValueAndValidity();
    this._onCollectionChange();
  }

  /** Remove a control from this group.
   * @param name The control name to remove from the collection
   */
  removeControl(name: string): void {
    if (this.controls[name])
      this.controls[name]._registerOnCollectionChange(() => {});
    delete (this.controls[name]);
    this.updateValueAndValidity();
    this._onCollectionChange();
  }

  /** Replace an existing control.
   * @param name The control name to replace in the collection
   * @param control Provides the control for the given name
   */
  setControl(name: string, control: AbstractControl): void {
    if (this.controls[name])
      this.controls[name]._registerOnCollectionChange(() => {});
    delete (this.controls[name]);
    if (control)
      this.registerControl(name, control);
    this.updateValueAndValidity();
    this._onCollectionChange();
  }

  /** Check whether there is an enabled control with the given name in the group. Reports false for disabled controls. If you'd like to check for existence in the group only, use {@link AbstractControl#get get} instead.
   * @param controlName The control name to check for existence in the collection
   * @returns false for disabled controls, true otherwise.
   */
  contains(controlName: string): boolean {
    return this.controls.hasOwnProperty(controlName) && this.controls[controlName].enabled;
  }

  /** Sets the value of the `FormGroup`. It accepts an object that matches the structure of the group, with control names as keys.
   * @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 or if you exclude a value of a control that does exist.
   * @param value The new value for the control that matches the structure of the group.
   * @param options Configuration options that determine how the control propagates changes and emits events after the value changes. The configuration options are passed to the {@link AbstractControl#updateValueAndValidity updateValueAndValidity} method.
   * * `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 value is updated.\n * When false, no events are emitted.\n * /\n
setValue(value: {[key: string]: any}, options: {onlySelf?: boolean, emitEvent?: boolean} = {}):\n void {\n
this._checkAllValuesPresent(value);\n Object.keys(value).forEach(name => {\n
this._throwIfControlMissing(name);\n this.controls[name].setValue(value[name], {onlySelf: true, emitEvent:
options.emitEvent});\n });\n 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 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 * /\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`.
*/
getRawValue(): any {
  return this._reduceChildren(
    {}, (acc: {[k: string]: AbstractControl}, control: AbstractControl, name: string) => {
    acc[name] = control instanceof FormControl ? control.value : (<any>control).getRawValue();
    return acc;
  });
}

/** @internal */
_syncPendingControls(): boolean {
  let subtreeUpdated = this._reduceChildren(false, (updated: boolean, child: AbstractControl) => {
    return child._syncPendingControls() ? true : updated;
  });
  if (subtreeUpdated) this.updateValueAndValidity({onlySelf: true});
  return subtreeUpdated;
}

/** @internal */
_throwIfControlMissing(name: string): void {
  if (!Object.keys(this.controls).length) {
    throw new Error(
      `There are no form controls registered with this group yet. If you're using ngModel, you may want to check next tick (e.g. use setTimeout).`);
  }
  if (!this.controls[name]) {
    throw new 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) => {
    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]: AbstractControl}, 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.
 * A `FormArray` aggregates the values of each child `FormControl` into an array.
 * It calculates its status by reducing the status values of its children. For example, if one of the controls in a `FormArray` is invalid, the entire array becomes invalid.
 * `FormArray` is one of the three fundamental building blocks used to define forms in Angular, along with `FormControl` and `FormGroup`.
 * @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.
 * The two types of validators are passed in separately as the second and third arg respectively, or together as part of an options object.
 *
 * const arr = new FormArray([
 *   new FormControl('Nancy'),
 *   new FormControl('Drew')], {
 *   validators: myValidator,
 *   asyncValidators: myAsyncValidator});
 *
 * ### Set the updateOn property for all controls in a form array
 *
 * The options object is used to set a default value for each child control's `updateOn` property. If you set `updateOn` to `blur` at the array level, all child controls default to 'blur', unless the child has explicitly specified a different `updateOn` value.
 *
 * const arr = new FormArray([
 *   new FormControl(),
 *   {updateOn: 'blur'}]);
 *
 * ### Adding or removing controls from a form array
 *
 * To change the controls in the array, use the `push`, `insert`, `removeAt` or `clear` methods in `FormArray` itself. These methods ensure the controls are properly tracked in the form's hierarchy. Do not modify the array of `AbstractControl`s used to instantiate the `FormArray` directly, as that

```

```

result in strange and unexpected behavior such as broken change detection.
 * @publicApi
 * @export
class FormArray extends AbstractControl {
  /**
   * Creates a new `FormArray` instance.
   * @param
   controls An array of child controls. Each child control is given an index
   * where it is registered.
   * @param
   validatorOrOpts A synchronous validator function, or an array of
   * such functions, or an
   `AbstractControlOptions` object that contains validation functions
   * and a validation trigger.
   * @param
   asyncValidator A single async validator or array of async validator functions
   *
   */
  constructor(
    public
    controls: AbstractControl[],
    validatorOrOpts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,
    asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[]|null) {
    super(
    coerceToValidator(validatorOrOpts),
    coerceToAsyncValidator(asyncValidator, validatorOrOpts));
    this._initObservables();
    this._setUpdateStrategy(validatorOrOpts);
    this._setUpControls();
    this.updateValueAndValidity({onlySelf: true, emitEvent: false});
  }

  /**
   * Get the `AbstractControl` at the
   given `index` in the array.
   * @param index Index in the array to retrieve the control
   */
  at(index:
  number): AbstractControl { return this.controls[index]; }

  /**
   * Insert a new `AbstractControl` at the end of
   the array.
   * @param control Form control to be inserted
   */
  push(control: AbstractControl): void {
    this.controls.push(control);
    this._registerControl(control);
    this.updateValueAndValidity();
    this._onCollectionChange();
  }

  /**
   * Insert a new `AbstractControl` at the given `index` in the array.
   *
   * @param index Index in the array to insert the control
   * @param control Form control to be inserted
   */
  insert(index: number, control: AbstractControl): void {
    this.controls.splice(index, 0, control);
    this._registerControl(control);
    this.updateValueAndValidity();
  }

  /**
   * Remove the control at the given
   `index` in the array.
   * @param index Index in the array to remove the control
   */
  removeAt(index:
  number): void {
    if (this.controls[index]) this.controls[index]._registerOnCollectionChange(() => {});
    this.controls.splice(index, 1);
    this.updateValueAndValidity();
  }

  /**
   * Replace an existing control.
   * @param index Index in the array to replace the control
   * @param control The `AbstractControl` control to
   replace the existing control
   */
  setControl(index: number, control: AbstractControl): void {
    if
    (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
   * value of a control.
   * @usageNotes
   * ### Set the values for the controls in the form
   array
   * ```
   * const arr = new FormArray([
   *   new FormControl(),
   *   new FormControl()
   * ]);
   * console.log(arr.value); // [null, null]
   * arr.setValue(['Nancy', 'Drew']);
   * console.log(arr.value); //
   ['Nancy', 'Drew']
   * ```
   *
   * @param value Array of values for the controls
   * @param options Configure options that determine how the
   control propagates changes and
   * emits events after the value changes
   * * `onlySelf`: When true, each
   change only affects this control, and not its parent. Default
   * is false.
   * * `emitEvent`: When true or not
   supplied (the default), both the `statusChanges` and
   * `valueChanges`
   * observables emit events with the
   latest status and value when the control value is updated.
   * When false, no events are emitted.
   * The
   configuration options are passed to the {
   @link AbstractControl#updateValueAndValidity
   *
   updateValueAndValidity} method.
   */
  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.
   *

```



```

* @usageNotes\n * ### Patch the values for controls in a form array\n * \n * ```\n * const arr = new
FormArray([\n * new FormControl(),\n * new FormControl()\n * ]);\n * console.log(arr.value); // [null,
null]\n * \n * arr.patchValue(['Nancy']);\n * console.log(arr.value); // ['Nancy', null]\n * ```\n * \n * @param
value Array of latest values for the controls\n * @param options Configure options that determine how the control
propagates changes and\n * emits events after the value changes\n * \n * * `onlySelf`: When true, each change
only affects this control, and not its
parent. Default\n * is 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 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:
any[], options: { onlySelf?: boolean, emitEvent?: boolean } = {}): void {\n value.forEach((newValue: any, index:
number) => {\n if (this.at(index)) {\n this.at(index).patchValue(newValue, { onlySelf: true, emitEvent:
options.emitEvent });\n }\n });\n this.updateValueAndValidity(options);\n }\n\n /**\n * Resets the
`FormArray` and all descendants are marked `pristine` and `untouched`, and the\n * value of all descendants to null
or null maps.\n * \n * You reset to a specific form state by passing in an array of states\n
* that matches the structure of the control. The state is a standalone value\n * or a form state object with both a
value and a disabled status.\n * \n * @usageNotes\n * ### Reset the values in a form array\n * \n * ```\n *
const arr = new FormArray([\n * new FormControl(),\n * new FormControl()\n * ]);\n * arr.reset(['name',
'last name']);\n * \n * console.log(this.arr.value); // ['name', 'last name']\n * ```\n * \n * ### Reset the values in
a form array and the disabled status for the first control\n * \n * ```\n * this.arr.reset([\n * {value: 'name',
disabled: true},\n * 'last'\n * ]);\n * \n * console.log(this.arr.value); // ['name', 'last']\n *
console.log(this.arr.get(0).status); // 'DISABLED'\n * ```\n * \n * @param value Array of values for the
controls\n * @param options Configure options that determine how the control propagates changes and\n * emits
events after the value changes\n * \n * * `onlySelf`:
When true, each change only affects this control, and not its parent. Default\n * is 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 reset(value: any = [], options: { onlySelf?: boolean, emitEvent?:
boolean } = {}): void {\n this._forEachChild((control: AbstractControl, index: number) => {\n
control.reset(value[index], { 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 array, including any disabled controls.\n * \n * Reports all values regardless of
disabled status.\n
* For enabled controls only, the `value` property is the best way to get the value of the array.\n * ^\n
getRawValue(): any[] {\n return this.controls.map((control: AbstractControl) => {\n return control instanceof
FormControl ? control.value : (<any>control).getRawValue();\n });\n }\n\n /**\n * Remove all controls in the
`FormArray`.\n * \n * @usageNotes\n * ### Remove all elements from a FormArray\n * \n * ```\n * const
arr = new FormArray([\n * new FormControl(),\n * new FormControl()\n * ]);\n * console.log(arr.length);
// 2\n * \n * arr.clear();\n * console.log(arr.length); // 0\n * ```\n * \n * It's a simpler and more efficient
alternative to removing all elements one by one:\n * \n * ```\n * const arr = new FormArray([\n * new
FormControl(),\n * new FormControl()\n * ]);\n * \n * while (arr.length) {\n * arr.removeAt(0);\n * }\n
* ```\n * ^\n clear(): void {\n if (this.controls.length
< 1) return;\n this._forEachChild((control: AbstractControl) => control._registerOnCollectionChange(() =>
{}));\n this.controls.splice(0);\n this.updateValueAndValidity();\n }\n\n /** @internal ^\n
_syncPendingControls(): boolean {\n let subtreeUpdated = this.controls.reduce((updated: boolean, child:
AbstractControl) => {\n return child._syncPendingControls() ? true : updated;\n }, false);\n if
(subtreeUpdated) this.updateValueAndValidity({ onlySelf: true });\n return subtreeUpdated;\n }\n\n /** @internal

```

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*/\n _throwIfControlMissing(index: number): void {\n  if (!this.controls.length) {\n    throw new Error(`\n
There are no form controls registered with this array yet. If you're using ngModel,\n    you may want to check\n
next tick (e.g. use setTimeout).\n  `);\n  }\n  if (!this.at(index)) {\n    throw new Error(`Cannot find form\n
control at index ${index}`);\n  }\n}\n\n/** @internal */\n _forEachChild(cb: Function): void\n  {\n    this.controls.forEach((control: AbstractControl, index: number) => { cb(control, index); });\n  }\n\n/**\n
@internal */\n _updateValue(): void {\n  (this as {value: any}).value =\n    this.controls.filter((control) =>\n
control.enabled || this.disabled)\n    .map((control) => control.value);\n  }\n\n/** @internal */\n
 _anyControls(condition: Function): boolean {\n  return this.controls.some((control: AbstractControl) =>\n
control.enabled && condition(control));\n  }\n\n/** @internal */\n _setUpControls(): void {\n\n
this._forEachChild((control: AbstractControl) => this._registerControl(control));\n  }\n\n/** @internal */\n
 _checkAllValuesPresent(value: any): void {\n  this._forEachChild((control: AbstractControl, i: number) => {\n\n
if (value[i] === undefined) {\n    throw new Error(`Must supply a value for form control at index: ${i}`);\n\n
  });\n  }\n\n/** @internal */\n _allControlsDisabled(): boolean {\n  for (const control of this.controls)\n\n  {\n    if (control.enabled) return false;\n  }\n  return this.controls.length > 0 || this.disabled;\n  }\n\nprivate\n
_registerControl(control: AbstractControl) {\n  control.setParent(this);\n\n  control._registerOnCollectionChange(this._onCollectionChange);\n  }\n}\n\n", "/*\n * @license\n * Copyright\n
Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n *
found in the LICENSE file at https://angular.io/license\n */\n\nimport {AfterViewInit, Directive, EventEmitter,\n
Inject, Input, Optional, Self, forwardRef} from '@angular/core';\n\nimport {AbstractControl, FormControl,\n
FormGroup, FormHooks} from './model';\n\nimport {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from\n
'./validators';\n\nimport {ControlContainer} from './control_container';\n\nimport {Form} from\n
'./form_interface';\n\nimport {NgControl} from './ng_control';\n\nimport {NgModel} from './ng_model';\n\nimport\n
{NgModelGroup} from './ng_model_group';\n\nimport {composeAsyncValidators,\n
composeValidators, removeDir, setUpControl, setUpFormContainer, syncPendingControls} from\n
'./shared';\n\nexport const formDirectiveProvider: any = {\n  provide: ControlContainer,\n  useExisting:\n
forwardRef(() => NgForm);\n};\n\nconst resolvedPromise = (() => Promise.resolve(null))();\n\n/**\n *
@description\n * Creates a top-level `FormGroup` instance and binds it to a form\n * to track aggregate form value\n
and validation status.\n * As soon as you import the `FormsModule`, this directive becomes active by default\n
on\n * all `` tags. You don't need to add a special selector.\n * You optionally export the directive into a\n
local template variable using `ngForm` as the key\n * (ex: `#myForm="ngForm"`). This is optional, but useful.\n
Many properties from the underlying\n * `FormGroup` instance are duplicated on the directive itself, so a reference\n
to it\n * gives you access to the aggregate value and validity status of the form, as well as\n * user interaction\n
properties like `dirty` and `touched`.\n * To register child controls with the form, use `NgModel` with a\n
`name`\n * attribute. You may use `NgModelGroup` to create sub-groups within the form.\n * If necessary,\n
listen to the directive's `ngSubmit` event to be notified when the user has\n * triggered a form submission. The\n
`ngSubmit` event emits the original form\n * submission event.\n * In template driven forms, all `` tags\n
are automatically tagged as `NgForm`.\n * To import the `FormsModule` but skip its usage in some forms,\n * for\n
example, to use native HTML5 validation, add the `ngNoForm` and the ``\n * tags won't create an `NgForm`\n
directive. In reactive forms, using `ngNoForm` is\n * unnecessary because the `` tags are inert. In that case,\n
you would\n * refrain from using the `formGroup` directive.\n * @usageNotes\n * ### Listening for form\n
submission\n * The following example shows how to capture the form values from the `ngSubmit`\n
event.\n * {\n * @example forms/ts/simpleForm/simple_form_example.ts region='Component'}\n * ### Setting\n
the update options\n * The following example shows you how to change the `updateOn` option from its default\n
using\n * ngFormOptions.\n * ```html\n * <form [ngFormOptions]="{updateOn: 'blur'}">\n * <input\n
name="one" ngModel> <!-- this ngModel will update on blur -->\n * </form>\n * ```\n * ### Native DOM\n
validation UI\n * In order to prevent the native DOM form validation UI from interfering with Angular's form\n
* validation, Angular automatically adds the `novalidate` attribute on any `` whenever\n * `FormsModule` or\n
`ReactiveFormsModule` are imported into the application.\n * If you want to explicitly enable native DOM

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validation UI with Angular forms, you can add the `ngNativeValidate` attribute to the `<form>` element:
`html`
<form ngNativeValidate>
  ...
</form>
`@ngModule FormsModule`
`@publicApi`
`^/@Directive`({
  selector: 'form:not([ngNoForm]):not([formGroup]),ng-form,[ngForm]',
  providers:
    [formDirectiveProvider],
  host: {'(submit)': 'onSubmit($event)', '(reset)': 'onReset()' },
  outputs: ['ngSubmit'],
  exportAs: 'ngForm'})
`export class NgForm extends FormControl implements Form,`
`AfterViewInit` {
  /**
   * @description
   * Returns whether the form submission has been triggered.
   * ^/ public readonly
   submitted: boolean = false;
  private _directives: NgModel[] = [];
  /**
   * @description
   * The `FormGroup` instance created for this form.
   * ^/ form: FormGroup;
  /**
   * @description
   * Event emitter for the `ngSubmit` event
   * ^/ ngSubmit = new EventEmitter();
  /**
   * @description
   * Tracks options for the `NgForm` instance.
   * ^/ **updateOn**: Sets the default `updateOn` value for all child
   `NgModels` below it
   * unless explicitly set by a child `NgModel` using `ngModelOptions`). Defaults to
   'change'.
   * Possible values: `change` | `blur` | `submit`.
   * ^/ // TODO(issue/24571): remove '!'.
  @Input('ngFormOptions') options!: {updateOn?: FormHooks};
  constructor(
    @Optional() @Self()
    @Inject(NG_VALIDATORS) validators: any[],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS)
    asyncValidators: any[]) {
    super();
    this.form = new FormGroup({}, composeValidators(validators),
      composeAsyncValidators(asyncValidators));
  }
  /**
   * @description
   * Lifecycle method called after the
   view is initialized. For internal use only.
   * ^/ ngAfterViewInit() { this._setUpdateStrategy(); }
  /**
   * @description
   * The directive instance.
   * ^/ get formDirective(): Form { return this; }
  /**
   * @description
   * The internal `FormGroup` instance.
   * ^/ get control(): FormGroup { return this.form; }
  /**
   * @description
   * Returns an array representing the path to this group. Because this directive
   * always lives at the top level of a form, it is always an empty array.
   * ^/ get path(): string[] { return []; }
  /**
   * @description
   * Returns a map of the controls in this group.
   * ^/ get controls(): {[key: string]:
   AbstractControl} { return this.form.controls; }
  /**
   * @description
   * Method that sets up the control
   directive in this group, re-calculates its value
   * and validity, and adds the instance to the internal list of
   directives.
   * ^/ * @param dir The `NgModel` directive instance.
   * ^/ addControl(dir: NgModel): void {
   resolvedPromise.then(() => {
     const container = this._findContainer(dir.path);
     (dir as {control:
   FormControl}).control =
     <FormControl>container.registerControl(dir.name, dir.control);
   setUpControl(dir.control, dir);
   dir.control.updateValueAndValidity({emitEvent: false});
   this._directives.push(dir);
   });
  }
  /**
   * @description
   * Retrieves the `FormControl`
   instance from the provided `NgModel` directive.
   * ^/ * @param dir The `NgModel` directive instance.
   * ^/
   getControl(dir: NgModel): FormControl { return <FormControl>this.form.get(dir.path); }
  /**
   * @description
   * Removes the `NgModel` instance from the internal list of directives
   * ^/ * @param dir The
   `NgModel` directive instance.
   * ^/ removeControl(dir: NgModel): void {
   resolvedPromise.then(() => {
     const container = this._findContainer(dir.path);
     if (container) {
       container.removeControl(dir.name);
     }
     removeDir<NgModel>(this._directives, dir);
   });
  }
  /**
   * @description
   * Adds a new
   `NgModelGroup` directive instance to the form.
   * ^/ * @param dir The `NgModelGroup` directive instance.
   * ^/
   addFormGroup(dir: NgModelGroup): void {
   resolvedPromise.then(() => {
     const container =
   this._findContainer(dir.path);
     const group = new FormGroup({});
     setUpFormContainer(group,
   dir);
     container.registerControl(dir.name, group);
     group.updateValueAndValidity({emitEvent: false});
   });
  }
  /**
   * @description
   * Removes the `NgModelGroup` directive instance from the form.
   * ^/ *
   * @param dir The `NgModelGroup` directive instance.
   * ^/
   removeFormGroup(dir: NgModelGroup): void {
   resolvedPromise.then(() => {
     const container = this._findContainer(dir.path);
     if (container) {
       container.removeControl(dir.name);
     }
   });
  }
  /**
   * @description
   * Retrieves the `FormGroup`
   for a provided `NgModelGroup` directive instance
   * ^/ * @param dir The `NgModelGroup` directive instance.
   * ^/
   getFormGroup(dir: NgModelGroup): FormGroup { return <FormGroup>this.form.get(dir.path); }
  /**
   * Sets the new value for the provided `NgControl` directive.
   * ^/ * @param dir The `NgControl` directive

```

```

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 * @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 * @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 */\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 * 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';\n\nimport { Form } from
'./form_interface';\n\nimport
{ composeAsyncValidators, composeValidators, controlPath } from './shared';\n\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 * @publicApi\n */\n\nexport class
AbstractFormGroupDirective extends ControlContainer implements OnInit, OnDestroy {\n  /**\n * @description\n
* The parent control for the group\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 * @internal\n
*/\n // TODO(issue/24571): remove '!.\n _validators !: any[];\n\n /**\n * @description\n * An
array of async validators for the group\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 */\n _checkParentType(): void
{\n }\n\n", /**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is
governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n
*/\n\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: `{Examples.formControlName}` Or, if you'd like to avoid registering this form control, indicate that it's standalone in `ngModelOptions`. Example:

```
{Examples.ngModelWithFormGroup});
}
static formGroupNameException(): void {
  throw new Error(
    `ngModel cannot be used to register form controls with a parent formGroupName or formArrayName directive.`
  );
}
Option 1: Use formControlName instead of ngModel (reactive strategy):
{Examples.formGroupName}
Option 2: Update ngModel's parent to be ngModelGroup (template-driven strategy):
{Examples.ngModelGroup});
}
static missingNameException() {
  throw new Error(
    `If ngModel is used within a form tag, either the name attribute must be set or the form control must be defined as 'standalone' in ngModelOptions.`
  );
}
Example 1: <input [(ngModel)]="person.firstName" name="first">
Example 2: <input [(ngModel)]="person.firstName" [ngModelOptions]="{standalone: true}">
}
static modelGroupParentException() {
  throw new Error(
    `ngModelGroup cannot be used with a parent formGroup directive.`
  );
}
Option 1: Use formGroupName instead of ngModelGroup (reactive strategy):
{Examples.formGroupName}
Option 2: Use a regular form tag instead of the formGroup directive (template-driven strategy):
{Examples.ngModelGroup});
}
}
"/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */
import {Directive, Host, Inject, Input, OnDestroy, OnInit, 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 './control_container';
import {NgForm} from './ng_form';
import {TemplateDrivenErrors} from './template_driven_errors';
export const modelGroupProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => NgModelGroup);
};
/**
 * @description
 * Creates and binds a `FormGroup` instance to a DOM element.
 * This directive can only be used as a child of `NgForm` (within `<form>` tags).
 * Use this directive to validate a sub-group of your form separately from the rest of your form, or if some values in your domain model make more sense to consume together in a nested object.
 * Provide a name for the sub-group and it will become the key for the sub-group in the form's full value. If you need direct access, export the directive into a local template variable using `ngModelGroup` (ex:
 * `#myGroup="ngModelGroup"`).
 * @usageNotes
 * ### Consuming controls in a grouping
 * The following example shows you how to combine controls together in a sub-group of the form.
 * @example
 * forms/ts/ngModelGroup/ng_model_group_example.ts
 * region='Component'
 */
@NgModule({
  imports: [NgForm],
  providers: [modelGroupProvider],
  exports: [NgModelGroup]
})
export class NgModelGroup extends AbstractFormGroupDirective implements OnInit, OnDestroy {
  /**
   * @description
   * Tracks the name of the `NgModelGroup` bound to the directive. The name corresponds to a key in the parent `NgForm`.
   * // TODO(issue/24571): remove '!'.
   */
  @Input('ngModelGroup') name!: string;
  constructor(
    @Host() @SkipSelf() parent: ControlContainer,
    @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[],
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[]
  ) {
    super();
    this._parent = parent;
    this._validators = validators;
    this._asyncValidators = asyncValidators;
  }
  /** @internal */
  _checkParentType(): void {
    if (!(this._parent instanceof NgModelGroup) && !(this._parent instanceof NgForm)) {
      TemplateDrivenErrors.modelGroupParentException();
    }
  }
}
"/**
 * @license
 * Copyright Google Inc. All Rights Reserved.
 * Use of this source code is governed by an MIT-style license that can be
 * found in the LICENSE file at https://angular.io/license
 */
import {Directive, EventEmitter, Host, Inject, Input, OnChanges, OnDestroy, Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';
import {FormControl, FormHooks} from './model';
import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from './validators';
import {AbstractFormGroupDirective} from './abstract_form_group_directive';
import {ControlContainer} from './control_container';
```

```

{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)
};
`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 detection run.
Notes:
- this is just one extra run no matter how many `ngModel` have been changed.
- this is a general problem when using `exportAs` for directives!
const 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 within a parent form, the directive also registers itself with the form as a child control.
This directive is used by itself or as part of a larger form. Use the `ngModel` selector to activate it.
It accepts a domain model as an optional `Input`. If you have a one-way binding to `ngModel` with `[]` syntax, changing the value of the domain model in the component class sets the value in the view. If you have a two-way binding with `[]` syntax (also known as 'banana-box syntax'), the value in the UI always syncs back to the domain model in your class.
To inspect the properties of the associated `FormControl` (like validity state), export the directive into a local template variable using `ngModel` as the key (ex: `#myVar="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`:
{@example forms/ts/simpleNgModel/simple_ng_model_example.ts region='Component'}
When using the `ngModel` within `<form>` tags, you'll also need to supply a `name` attribute so that the control can be registered with the parent form under that name.
In the context of a parent form, it's often unnecessary to include one-way or two-way binding, as the parent form syncs the value for you. You access its properties by exporting it into 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.
### Using ngModel within a form
The following example shows controls using `ngModel` within a form:
{@example forms/ts/simpleForm/simple_form_example.ts region='Component'}
### Using a standalone ngModel within a group
The following example shows you how to use a standalone ngModel control within a form. This controls the display of the form, but doesn't contain form data.


```

<form>
  <input name="login" ngModel
placeholder="Login">
  <input type="checkbox" ngModel [ngModelOptions]="{standalone: true}"> Show
more options?
</form>
<!-- form value: {login: " } -->
`### Setting the ngModel name attribute through options`
The following example shows you an alternate way to set the name attribute. The name attribute is used within a custom form component, and the name `@Input` property serves a different purpose.


```

<form>
  <my-person-control name="Nancy" ngModel
[ngModelOptions]="{name: 'user'}">
  </my-person-control>
</form>
<!-- form value: {user: " } -->
`@ngModule FormsModule`
@publicApi
@Directive({
  selector:

```


```


```

```

[NgModel]:not([formControlName]):not([formControl]),\n providers: [formControlBinding],\n exportAs:
'ngModel')\n}\nexport class NgModel extends NgControl implements OnChanges,\n
  OnDestroy {\n  public readonly control: FormControl = new FormControl();\n  // At runtime we coerce arbitrary
  values assigned to the \"disabled\" input to a \"boolean\".\n  // This is not reflected in the type of the property
  because outside of templates, consumers\n  // should only deal with booleans. In templates, a string is allowed for
  convenience and to\n  // match the native \"disabled attribute\" semantics which can be observed on input
  elements.\n  // This static member tells the compiler that values of type \"string\" can also be assigned\n  // to the
  input in a template.\n  /** @nodoc */\n  static ngAcceptInputType_isDisabled: boolean|string;\n\n  /** @internal
  */\n  _registered = false;\n\n  /**\n   * @description\n   * Internal reference to the view model value.\n   */\n  viewModel: any;\n\n  /**\n   * @description\n   * Tracks the name bound to the directive. The parent form\n   * uses
  this name as a key to retrieve this control's value.\n   */\n  // TODO(issue/24571):
  remove '!\n  @Input() name!: string;\n\n  /**\n   * @description\n   * Tracks whether the control is disabled.\n
  */\n  // TODO(issue/24571): remove '!\n  @Input('disabled') isDisabled!: boolean;\n\n  /**\n   * @description\n   *
  Tracks the value bound to this directive.\n   */\n  @Input('ngModel') model: any;\n\n  /**\n   * @description\n   *
  Tracks the configuration options for this `ngModel` instance.\n   */\n  /** name*: An alternative to setting the
  name attribute on the form control element. See\n   * the [example](api/forms/NgModel#using-ngmodel-on-a-
  standalone-control) for using `NgModel`\n   * as a standalone control.\n   */\n  /** standalone*: When set to true,
  the `ngModel` will not register itself with its parent form,\n   * and acts as if it's not in the form. Defaults to false.\n
  */\n  /** updateOn*: Defines the event upon which the form control value and validity update.\n   * Defaults to
  'change'. Possible values: `change` | `blur` | `submit`.\n   */\n\n  /**\n   // TODO(issue/24571): remove '!\n  @Input('ngModelOptions')\n  options!: { name?: string, standalone?:
  boolean, updateOn?: FormHooks};\n\n  /**\n   * @description\n   * Event emitter for producing the
  `ngModelChange` event after\n   * the view model updates.\n   */\n  @Output('ngModelChange') update = new
  EventEmitter();\n\n  constructor(@Optional() @Host() parent: ControlContainer,\n    @Optional() @Self()
  @Inject(NG_VALIDATORS) validators: Array<Validator|ValidatorFn>,\n    @Optional() @Self()
  @Inject(NG_ASYNC_VALIDATORS) asyncValidators: Array<AsyncValidator|AsyncValidatorFn>,\n    @Optional() @Self() @Inject(NG_VALUE_ACCESSOR)\n    valueAccessors: ControlValueAccessor[]) {\n    super();\n    this._parent = parent;\n    this._rawValidators = validators || [];\n    this._rawAsyncValidators = asyncValidators || [];\n    this.valueAccessor = selectValueAccessor(this,
  valueAccessors);\n\n    }\n\n    /**\n     * @description\n     * A lifecycle method called when the directive's
  inputs change. For internal use\n     * only.\n     */\n    @param changes A object of key/value
  pairs for the set of changed inputs.\n     */\n    ngOnChanges(changes: SimpleChanges) {\n    this._checkForErrors();\n    if (!this._registered) this._setUpControl();\n    if ('isDisabled' in changes)
  {\n    this._updateDisabled(changes);\n    }\n    if (isPropertyUpdated(changes,
  this.viewModel)) {\n    this._updateValue(this.model);\n    this.viewModel = this.model;\n    }\n    }\n\n    /**\n     * @description\n     * Lifecycle method called before the directive's
  instance is destroyed. For internal\n     * use only.\n     */\n    ngOnDestroy(): void { this.formDirective && this.formDirective.removeControl(this); }\n\n    /**\n     * @description\n     * Returns an array that represents the path from the top-level form to this
  control.\n     * Each index is the string name of the control on that level.\n     */\n    get path():
  string[] {\n    return this._parent ? controlPath(this.name, this._parent) : [this.name];\n    }\n\n    /**\n     * @description\n     * The top-level directive for this control if present, otherwise null.\n     */\n    get formDirective(): any { return this._parent ? this._parent.formDirective : null; }\n\n    /**\n     * @description\n     * Synchronous validator function composed of all the synchronous validators\n     * registered with this directive.\n     */\n    get validator():
  ValidatorFn|null { return composeValidators(this._rawValidators); }\n\n    /**\n     * @description\n     * Async validator function composed of all the async validators registered with this\n     * directive.\n
  }

```

```

    */\n
    get asyncValidator(): AsyncValidatorFn|null {\n
    return
composeAsyncValidators(this._rawAsyncValidators);\n
}/**\n
 * @description\n
 * Sets the new value for the view model and emits an `ngModelChange` event.\n
 * @param
 * newValue The new value emitted by `ngModelChange`.\n
 */\n
viewToModelUpdate(newValue:
any): void {\n
    this.viewModel = newValue;\n
    this.update.emit(newValue);\n
}\n
private _setUpControl(): void {\n
    this._setUpUpdateStrategy();\n
    this._isStandalone() ?
this._setUpStandalone()
:\n
    this.formDirective.addControl(this);\n
    this._registered = true;\n
}\n
private _setUpUpdateStrategy(): void {\n
    if (this.options && this.options.updateOn != null) {\n
    this.control.updateOn = this.options.updateOn;\n
    }\n
}\n
private _isStandalone():
boolean {\n
    return !this._parent || !(this.options && this.options.standalone);\n
}\n
private _setUpStandalone(): void {\n
    setUpControl(this.control, this);\n
this.control.updateValueAndValidity({ emitEvent: false });\n
}\n
private _checkForErrors(): void
{\n
    if (!this._isStandalone()) {\n
    this._checkParentType();\n
    }\n
this._checkName();\n
}\n
private _checkParentType(): void {\n
    if
    (!(this._parent instanceof NgModelGroup) &&\n
    this._parent instanceof AbstractFormGroupDirective)
{\n
    TemplateDrivenErrors.formGroupNameException();\n
    } else if (\n
    !(this._parent
instanceof NgModelGroup) && !(this._parent instanceof NgForm)) {\n
    TemplateDrivenErrors.modelParentException();\n
    }\n
}\n
private _checkName(): void
{\n
    if (this.options && this.options.name) this.name = this.options.name;\n
    if
    (!this._isStandalone() && !this.name) {\n
    TemplateDrivenErrors.missingNameException();\n
    }\n
}\n
private _updateValue(value: any): void {\n
    resolvedPromise.then(\n
    () => { this.control.setValue(value, { emitViewToModelChange: false }); });\n
}\n
private
_updateDisabled(changes: SimpleChanges) {\n
    const disabledValue = changes['isDisabled'].currentValue;\n
    const isDisabled =\n
disabledValue === "" || (disabledValue && disabledValue !== 'false');\n
    resolvedPromise.then(() => {\n
    if (isDisabled && !this.control.disabled) {\n
    this.control.disable();\n
    } else if
    (!isDisabled && this.control.disabled) {\n
    this.control.enable();\n
    }\n
});\n
}\n
}"/**\n
 * @license\n
 * Copyright Google Inc. All Rights Reserved.\n
 * Use of this source code is
governed by an MIT-style license that can be\n
 * found in the LICENSE file at https://angular.io/license\n
 */\n
import { Directive } from '@angular/core';\n
/**\n
 * @description\n
 * Adds `novalidate` attribute to all
forms by default.\n
 * `novalidate` is used to disable browser's native form validation.\n
 * If you want to use
native validation with Angular forms,
just add `ngNativeValidate` attribute:\n
 * ```\n
 * <form ngNativeValidate></form>\n
 * ```\n
 */\n
@publicApi\n
@NgModule(ReactiveFormsModule)\n
@NgModule(FormsModule)\n
@Directive({\n
selector:
'form:not([ngNoForm]):not([ngNativeValidate])',\n
host: {'novalidate': ''},\n
})\n
export class NgNoValidate
{\n
}\n
export { NgNoValidate as NgNoValidate };"/**\n
 * @license\n
 * Copyright Google Inc. All Rights
Reserved.\n
 * Use of this source code is governed by an MIT-style license that can be\n
 * found in the
LICENSE file at https://angular.io/license\n
 */\n
import { Directive, EventEmitter, Inject, InjectionToken, Input,
OnChanges, Optional, Output, Self, SimpleChanges, forwardRef } from '@angular/core';\n
import { FormControl }
from '../model';\n
import { NG_ASYNC_VALIDATORS, NG_VALIDATORS } from '../validators';\n
import
{ ControlValueAccessor, NG_VALUE_ACCESSOR } from './control_value_accessor';\n
import { NgControl } from
'./ng_control';\n
import { ReactiveErrors } from
'./reactive_errors';\n
import { _ngModelWarning, composeAsyncValidators, composeValidators, isPropertyUpdated,
selectValueAccessor, setUpControl } from './shared';\n
import { AsyncValidator, AsyncValidatorFn, Validator,
ValidatorFn } from './validators';\n
/**\n
 * Token to provide to turn off the ngModel warning on FormControl and
FormControlName.\n
 */\n
export const NG_MODEL_WITH_FORM_CONTROL_WARNING =\n
new
InjectionToken('NgModelWithFormControlWarning');\n
export const formControlBinding: any = {\n
provide:

```



```

NgControl, useExisting: forwardRef(() => FormControlDirective)};

/** @description Syncs a standalone `FormControl` instance to a form control element.
 * @see [Reactive Forms Guide](guide/reactive-forms)
 * @see `FormControl`
 * @see `AbstractControl`
 * @usageNotes
 * ### Registering a single form control
 * The following examples shows how to register a standalone control and set its value.
 * @example forms/ts/simpleFormControl/simple_form_control_example.ts
 * region='Component'}
 * ### Use with ngModel
 * Support for using the `ngModel` input property and `ngModelChange` event with reactive form directives has been deprecated in Angular v6 and will be removed in a future version of Angular.
 * Now deprecated:
 * ```html
 * <input [formControl]="control" [(ngModel)]="value">
 * ```
 * This has been deprecated for a few reasons. First, developers have found this pattern confusing. It seems like the actual `ngModel` directive is being used, but in fact it's an input/output property named `ngModel` on the reactive form directive that simply approximates (some of) its behavior. Specifically, it allows getting/setting the value and intercepting value events. However, some of `ngModel`'s other features - like delaying updates with `ngModelOptions` or exporting the directive - simply don't work, which has understandably caused some confusion.
 * In addition, this pattern mixes template-driven and reactive forms strategies, which we generally don't recommend because it doesn't take advantage of the full benefits of either strategy. Setting the value in the template violates the template-agnostic principles behind reactive forms, whereas adding a `FormControl`/`FormGroup` layer in the class removes the convenience of defining forms in the template.
 * To update your code before support is removed, you'll want to decide whether to stick with reactive form directives (and get/set values using reactive forms patterns) or switch over to template-driven directives.
 * After (choice 1 - use reactive forms):
 * ```html
 * <input [formControl]="control">
 * ```
 * After (choice 2 - use template-driven forms):
 * ```html
 * <input [(ngModel)]="value">
 * ```
 * By default, when you use this pattern, you will see a deprecation warning once in dev mode. You can choose to silence this warning by providing a config 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.
 * @ngModule ReactiveFormsModule
 * @publicApi
 * ^@Directive({ selector: '[formControl]', providers: [formControlBinding], exportAs: 'ngForm'})
 * export class FormControlDirective extends NgControl implements OnChanges {
 *   /** @description Internal reference to the view model value.
 *    * ^@viewModel: any;
 *    * @description Tracks the `FormControl` instance bound to the directive.
 *    * ^@TODO(issue/24571): remove '!'.
 *    * ^@Input('formControl') form!: FormControl;
 *    * @description Triggers a warning that this input should not be used with reactive forms.
 *    * ^@Input('disabled') set isDisabled(isDisabled: boolean) {
 *   ReactiveErrors.disabledAttrWarning();
 * }
 * // 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 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
 * ^static _ngModelWarningSentOnce = false;
 * /** @description Instance property used to track whether an ngModel warning has been sent out for this particular `FormControlDirective` instance. Used to support warning config of "always".
 * ^@internal
 * ^_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) {\n
  super();\n      this._rawValidators = validators || [];\n      this._rawAsyncValidators =\n      asyncValidators || [];\n      this.valueAccessor = selectValueAccessor(this, valueAccessors);\n      }\n\n  /**\n   * @description\n   * A lifecycle method called when the directive's inputs change. For\n   internal use\n\n   * only.\n   *\n   * @param changes A object of key/value pairs for the set of changed\n   inputs.\n   *\n   ngOnChanges(changes: SimpleChanges): void {\n      if\n      (this._isControlChanged(changes)) {\n        setUpControl(this.form, this);\n        if (this.control.disabled\n        && this.valueAccessor !.setDisabledState) {\n          this.valueAccessor !.setDisabledState !(true);\n        }\n        this.form.updateValueAndValidity({emitEvent: false});\n      }\n      if\n      (isPropertyUpdated(changes, this.viewModel)) {\n        _ngModelWarning(\n        'formControl',\n        FormControlDirective, this, this._ngModelWarningConfig);\n        this.form.setValue(this.model);\n        this.viewModel = this.model;\n      }\n    }\n\n    /**\n     * @description\n     * Returns an array\n     that represents the path from the top-level form to this control.\n     * Each index is the string name of the\n     control on that level.\n     *\n     path(): string[] { return []; }\n\n     /**\n     * @description\n     * Synchronous validator function composed of all the synchronous validators\n     registered with this directive.\n     *\n     get validator(): ValidatorFn|null { return\n     composeValidators(this._rawValidators); }\n\n     /**\n     * @description\n     * Async validator\n     function composed of all the async validators registered with this\n     directive.\n     *\n     get\n     asyncValidator(): AsyncValidatorFn|null {\n       return\n       composeAsyncValidators(this._rawAsyncValidators);\n     }\n\n     /**\n     * @description\n     * The `FormControl` bound to this directive.\n     *\n     get control(): FormControl { return this.form; }\n\n     *\n     * Sets the new value for the view model and emits an `ngModelChange` event.\n     *\n     *\n     @param newValue The new value for the view model.\n     *\n     viewModelUpdate(newValue:\n     any): void {\n       this.viewModel = newValue;\n       this.update.emit(newValue);\n     }\n\n     private _isControlChanged(changes: {[key: string]: any}): boolean {\n       return\n       changes.hasOwnProperty('form');\n     }\n\n     }
}

/**
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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 {Directive, EventEmitter, Inject, Input, OnChanges,\n      Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';\nimport\n      {FormArray, FormControl, FormGroup} from '../model';\nimport {NG_ASYNC_VALIDATORS,\n      NG_VALIDATORS, Validators} from '../validators';\nimport {ControlContainer} from\n      './control_container';\nimport {Form} from './form_interface';\nimport {ReactiveErrors} from\n      './reactive_errors';\nimport {cleanupControl, composeAsyncValidators, composeValidators, removeDir,\n      setUpControl, setUpFormContainer, syncPendingControls} from './shared';\nimport {FormControlName} from\n      './form_control_name';\nimport {FormArrayName, FormGroupName} from './form_group_name';\n\nexport const\n      formDirectiveProvider: any = {\n        provide: ControlContainer,\n        useExisting: forwardRef(() =>\n          FormGroupDirective)\n      };\n\n/**\n * @description\n * Binds an existing `FormGroup` to a DOM element.\n *\n * This directive accepts an existing `FormGroup` instance. It will then use this\n * `FormGroup` instance to match\n * any child `FormControl`, `FormGroup`,\n * and `FormArray` instances to child `FormControlName`,\n * `FormGroupName`,\n * and `FormArrayName` directives.\n *\n * @see [Reactive Forms Guide](guide/reactive-forms)\n *\n * @see `AbstractControl`\n * ### Register Form Group\n *\n * The following example registers a\n * `FormGroup` with first name and last name controls,\n * and listens for the `ngSubmit` event when the button is\n * clicked.\n *\n * @example forms/ts/simpleFormGroup/simple_form_group_example.ts region='Component'\n *\n * @ngModule ReactiveFormsModule\n * @publicApi\n *\n * @Directive({\n   selector: '[formGroup]',\n   providers:\n   [formDirectiveProvider],\n   host: {\n     '(submit)': 'onSubmit($event)',\n     '(reset)': 'onReset()',\n   },\n   exportAs:

```

```

'ngForm'\n})\nexport class FormGroupDirective extends ControlContainer implements Form,\n  OnChanges {\n  /**\n   * @description\n   * Reports whether the form submission has been triggered.\n   */\n  public readonly\n  submitted: boolean = false;\n  // TODO(issue/24571): remove '!'\n  private _oldForm!: FormGroup;\n  /**\n   * @description\n   * Tracks\n   * the list of added `FormControlName` instances\n   */\n  directives: FormControlName[] = [];\n  /**\n   * @description\n   * Tracks the `FormGroup` bound to this directive.\n   */\n  @Input('formGroup') form: FormGroup\n  = null !;\n  /**\n   * @description\n   * Emits an event when the form submission has been triggered.\n   */\n  @Output() ngSubmit = new EventEmitter();\n  constructor(\n    @Optional() @Self()\n    @Inject(NG_VALIDATORS) private _validators: any[],\n    @Optional() @Self()\n    @Inject(NG_ASYNC_VALIDATORS) private _asyncValidators: any[]) {\n    super();\n  }\n  /**\n   * @description\n   * A lifecycle method called when the directive's inputs change. For internal use only.\n   */\n  @param changes A object of key/value pairs for the set of changed inputs.\n  */\n  ngOnChanges(changes:\n    SimpleChanges): void {\n    this._checkFormPresent();\n    if (changes.hasOwnProperty('form')) {\n      this._updateValidators();\n      this._updateDomValue();\n      this._updateRegistrations();\n    }\n  }\n  /**\n   * @description\n   * Returns this directive's instance.\n   */\n  get formDirective(): Form {\n    return this; }\n  /**\n   * @description\n   * Returns the `FormGroup` bound to this directive.\n   */\n  get\n  control(): FormGroup { return this.form; }\n  /**\n   * @description\n   * Returns an array representing the path to\n  this group. Because this directive\n  * always lives at the top level of a form, it always an empty array.\n  */\n  get\n  path(): string[] { return []; }\n  /**\n   * @description\n   * Method that sets up the control directive in this group,\n  re-calculates its value\n  * and validity, and adds the instance to the internal list of directives.\n  */\n  @param dir\n  The `FormControlName` directive instance.\n  */\n  addControl(dir: FormControlName): FormControl {\n    const\n  ctrl: any = this.form.get(dir.path);\n    setUpControl(ctrl, dir);\n    ctrl.updateValueAndValidity({emitEvent:\n  false});\n    this.directives.push(dir);\n\n    return ctrl;\n  }\n  /**\n   * @description\n   * Retrieves the `FormControl` instance from the provided\n  `FormControlName` directive\n  */\n  @param dir The `FormControlName` directive instance.\n  */\n  get\n  control(dir: FormControlName): FormControl { return <FormControl>this.form.get(dir.path); }\n  /**\n   * @description\n   * Removes the `FormControlName` instance from the internal list of directives\n  */\n  @param\n  dir The `FormControlName` directive instance.\n  */\n  removeControl(dir: FormControlName): void {\n    removeDir<FormControlName>(this.directives, dir);\n  }\n  /**\n   * Adds a new `FormGroupName` directive\n  instance to the form.\n  */\n  @param dir The `FormGroupName` directive instance.\n  */\n  addFormGroup(dir:\n  FormGroupName): void {\n    const ctrl: any = this.form.get(dir.path);\n    setUpFormContainer(ctrl, dir);\n    ctrl.updateValueAndValidity({emitEvent: false});\n  }\n  /**\n   * No-op method to remove the form group.\n  */\n  @param dir\n  The `FormGroupName` directive instance.\n  */\n  removeFormGroup(dir: FormGroupName): void {} }\n  /**\n   * @description\n   * Retrieves the `FormGroup` for a provided `FormGroupName` directive instance\n  */\n  @param dir The `FormGroupName` directive instance.\n  */\n  get\n  FormGroup(dir: FormGroupName): FormGroup\n  { return <FormGroup>this.form.get(dir.path); }\n  /**\n   * Adds a new `FormArrayName` directive instance to\n  the form.\n  */\n  @param dir The `FormArrayName` directive instance.\n  */\n  addFormArray(dir:\n  FormArrayName): void {\n    const ctrl: any = this.form.get(dir.path);\n    setUpFormContainer(ctrl, dir);\n    ctrl.updateValueAndValidity({emitEvent: false});\n  }\n  /**\n   * No-op method to remove the form array.\n  */\n  @param dir The `FormArrayName` directive instance.\n  */\n  removeFormArray(dir: FormArrayName): void\n  {} }\n  /**\n   * @description\n   * Retrieves the `FormArray` for a provided `FormArrayName` directive\n  instance.\n  */\n  @param\n  dir The `FormArrayName` directive instance.\n  */\n  get\n  FormArray(dir: FormArrayName): FormArray { return\n  <FormArray>this.form.get(dir.path); }\n  /**\n   * Sets the new value for the provided `FormControlName`\n  directive.\n  */\n  @param dir The `FormControlName` directive instance.\n  @param value The new value for\n  the directive's control.\n  */\n  updateModel(dir: FormControlName, value: any): void {\n    const ctrl =\n  <FormControl>this.form.get(dir.path);\n    ctrl.setValue(value);\n  }\n  /**\n   * @description\n   * Method called

```

```

with the `submit` event is triggered on the form.
 * Triggers the `ngSubmit` emitter to emit the `submit` event
as its payload.
 * @param $event The `submit` event object
 * onSubmit($event: Event): boolean
 (this as {submitted: boolean}).submitted = true;
 syncPendingControls(this.form, this.directives);
 this.ngSubmit.emit($event);
 return false;
 }
 /**
 * @description
 * Method called
when the `reset` event is triggered on the form.
 * onReset(): void
 { this.resetForm(); }
 /**
 * @description
 * Resets the form to an initial value and resets its submitted status.
 * @param value The
new value for the form.
 * resetForm(value: any = undefined): void
 { this.form.reset(value);
 (this
as {submitted: boolean}).submitted = false;
 }
 /** @internal
 * _updateDomValue()
 {
this.directives.forEach(dir => {
 const newCtrl: any = this.form.get(dir.path);
 if (dir.control !== newCtrl)
 {
 cleanUpControl(dir.control, dir);
 if (newCtrl)
 setUpControl(newCtrl, dir);
 (dir as {control:
FormControl}).control = newCtrl;
 }
 });
 this.form._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!]);
 }
 private _checkFormPresent()
 {
 if
(!this.form)
 {
 ReactiveErrors.missingFormException();
 }
 }
 }
 "
 /**
 * @license
 * Copyright
Google Inc. All Rights Reserved.
 * Use of this source code is governed by an MIT-style license that can be
found in the LICENSE file at https://angular.io/license
 */
import {Directive, Host, Inject, Input, OnDestroy,
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
`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.
 * @see
[Reactive Forms Guide](guide/reactive-forms)
 * @usageNotes
 * ### Access the group by name
 * The following example uses the { @link AbstractControl#get get } method to access the
associated
`FormGroup`
 * ```ts
 * this.form.get('name');
 * ```
 * ### Access individual controls in the group
 * The following example uses the { @link AbstractControl#get get } method to access
individual controls
within the group using dot syntax.
 * ```ts
 * this.form.get('name.first');
 * ```
 * ### Register a nested
`FormGroup`
 * The following example registers a nested *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
 */
@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,\n    @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[],\n    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[]) {\n  super();\n  this._parent\n  = parent;\n  this._validators = validators;\n  this._asyncValidators = asyncValidators;\n }\n\n /** @internal */\n _checkParentType():\n\n  void {\n    if (_hasInvalidParent(this._parent)) {\n      ReactiveErrors.groupParentException();\n    }\n  }\n\n  export const formArrayNameProvider: any = {\n    provide: ControlContainer,\n    useExisting: forwardRef(()\n    => FormArrayName)\n  };\n\n  /**\n   * @description\n   * Syncs a nested `FormArray` to a DOM element.\n   * This directive is designed to be used with a parent `FormGroupDirective` (selector: `[formGroup]`).\n   * 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 `FormGroup` instance you passed into `FormGroupDirective`.  

  @see [Reactive Forms Guide](guide/reactive-forms)\n   * @see `AbstractControl`\n   * @usageNotes\n   * ### Example\n   * {\n   *   @example forms/ts/nestedFormArray/nested_form_array_example.ts region='Component'\n   * }\n   * @ngModule ReactiveFormsModule\n   * @publicApi\n   */\n  @Directive({ selector: `[formArrayName]`, providers: [formArrayNameProvider] })\n  export\n  class FormArrayName extends ControlContainer implements OnInit, OnDestroy {\n    /** @internal */\n    _parent: ControlContainer;\n    /** @internal */\n    _validators: any[];\n    /** @internal */\n    _asyncValidators: any[];\n\n    /**\n     * @description\n     * 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 '!'\n    @Input('formArrayName') name!: string | number | null;\n\n    constructor(\n      @Optional() @Host() @SkipSelf()\n      parent: ControlContainer,\n      @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[],\n      @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[]) {\n      super();\n      this._parent = parent;\n      this._validators = validators;\n      this._asyncValidators = asyncValidators;\n    }\n\n    /**\n     * @description\n     * A lifecycle method called when the directive's inputs are initialized. For internal use only.  

    * @throws If the directive does not have a valid parent.\n     */\n    ngOnInit(): void {\n      this._checkParentType();\n      this.formDirective!.addFormArray(this);\n    }\n\n    /**\n     * @description\n     * A lifecycle method called before the directive's instance is destroyed. For internal use only.  

    */\n    ngOnDestroy(): void {\n      if (this.formDirective) {\n        this.formDirective.removeFormArray(this);\n      }\n    }\n\n    /**\n     * @description\n     * The `FormArray` bound to this directive.  

    */\n    get control(): FormArray {\n      return this.formDirective!.getFormArray(this);\n    }\n\n    /**\n     * @description\n     * The top-level directive for this group if present, otherwise null.  

    */\n    get formDirective(): FormGroupDirective | null {\n      return this._parent ? <FormGroupDirective>this._parent.formDirective : null;\n    }\n\n    /**\n     * @description\n     * 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.  

    */\n    get path(): string[] {\n      return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);\n    }\n\n    /**\n     * @description\n     * Synchronous validator function composed of all the synchronous validators registered with this directive.  

    */\n    get validator(): ValidatorFn | null {\n      return composeValidators(this._validators);\n    }\n\n    /**\n     * @description\n     * Async validator function composed of all the async validators registered with this directive.  

    */\n    get asyncValidator(): AsyncValidatorFn | null {\n      return composeAsyncValidators(this._asyncValidators);\n    }\n\n    private _checkParentType(): void {\n      if (_hasInvalidParent(this._parent)) {\n        ReactiveErrors.arrayParentException();\n      }\n    }\n  }\n\n  function _hasInvalidParent(parent: ControlContainer): boolean {\n    return !(parent instanceof FormGroupName) && !(parent instanceof FormGroupDirective) && !(parent instanceof FormArrayName);\n  }\n\n  /**\n   * @license\n   * Copyright Google Inc. All Rights Reserved.\n   * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at\n   * https://angular.io/license\n   */\n  import { Directive, EventEmitter, Host, Inject, Input, OnChanges, OnDestroy, Optional, Output, Self, SimpleChanges, SkipSelf, forwardRef } from '@angular/core';\n  import { FormControl } from '../model';\n  import { NG_ASYNC_VALIDATORS, NG_VALIDATORS } from '../validators';\n  import

```

```

{AbstractFormGroupDirective} from './abstract_form_group_directive';\nimport {ControlContainer} from
 './control_container';\nimport {ControlValueAccessor, NG_VALUE_ACCESSOR} from
 './control_value_accessor';\nimport {NgControl} from './ng_control';\nimport {ReactiveErrors}
 from './reactive_errors';\nimport {_ngModelWarning, composeAsyncValidators, composeValidators, controlPath,
 isPropertyUpdated, selectValueAccessor} from './shared';\nimport {AsyncValidator, AsyncValidatorFn, Validator,
 ValidatorFn} from './validators';\n\nimport {NG_MODEL_WITH_FORM_CONTROL_WARNING} from
 './form_control_directive';\nimport {FormGroupDirective} from './form_group_directive';\nimport
 {FormArrayName, FormGroupName} from './form_group_name';\n\nexport const controlNameBinding: any = {\n
 provide: NgControl,\n useExisting: forwardRef(() => FormControlName)\n};\n\n/**\n * @description\n * Syncs a
 `FormControl` in an existing `FormGroup` to a form control\n * element by name.\n * \n * @see [Reactive Forms
 Guide](guide/reactive-forms)\n * @see `FormControl`\n * @see `AbstractControl`\n * \n * @usageNotes\n * \n *
### Register `FormControl` within a group\n * \n * The following example shows how to register multiple form
 controls within a form group\n * and set their
 value.\n * \n * { @example forms/ts/simpleFormGroup/simple_form_group_example.ts region='Component'}\n * \n
 * To see `FormControlName` examples with different form control types, see:\n * \n * * Radio buttons:
 `RadioControlValueAccessor`\n * * Selects: `SelectControlValueAccessor`\n * \n * ### Use with ngModel\n * \n *
Support for using the `ngModel` input property and `ngModelChange` event with reactive\n * form directives has
 been deprecated in Angular v6 and will be removed in a future\n * version of Angular.\n * \n * Now deprecated:\n
 * \n * ```html\n * <form [formGroup]="form">\n *   <input formControlName="first" [(ngModel)]="value">\n *
 </form>\n * ```\n * \n * ```ts\n * this.value = 'some value';\n * ```\n * \n * This has been deprecated for a few reasons.
 First, developers have found this pattern\n * confusing. It seems like the actual `ngModel` directive is being used,
 but in fact it's\n * 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 * \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 * \n * To update your code before support is removed, you'll want
 to decide whether to stick with\n * reactive form directives (and get/set values using reactive forms patterns) or
 switch over to\n * template-driven directives.\n * \n * After (choice 1 -
 use reactive forms):\n * \n * ```html\n * <form [formGroup]="form">\n *   <input formControlName="first">\n *
 </form>\n * ```\n * \n * ```ts\n * this.form.get('first').setValue('some value');\n * ```\n * \n * After (choice 2 - use
 template-driven forms):\n * \n * ```html\n * <input [(ngModel)]="value">\n * ```\n * \n * ```ts\n * this.value = 'some
 value';\n * ```\n * \n * By default, when you use this pattern, you will see a deprecation warning once in dev\n *
mode. You can choose to silence this warning by providing a config for\n * `ReactiveFormsModule` at import
 time:\n * \n * ```ts\n * imports: [\n *   ReactiveFormsModule.withConfig({ warnOnNgModelWithFormControl:
 'never'})\n * ]\n * ```\n * \n * Alternatively, you can choose to surface a separate warning for each instance of this\n
 * pattern 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.\n * \n * @ngModule ReactiveFormsModule\n * @publicApi\n
 * \n * @Directive({ selector: '[formControlName]', providers: [controlNameBinding]})\n * \n * export class
 FormControlName extends NgControl implements OnChanges, OnDestroy {\n *   private _added = false;\n *   /**\n
 *    * @description\n *    * Internal reference to the view model value.\n *    * @internal\n *    * \n *    * viewModel: any;\n *    * \n *    * /**\n
 *    * @description\n *    * Tracks the `FormControl` instance bound to the directive.\n *    * \n *    * // TODO(issue/24571):
 remove '!'.\n *    * readonly control!: FormControl;\n *    * \n *    * /**\n *    * @description\n *    * Tracks the name of the
 `FormControl` bound to the directive. The name corresponds\n *    * to a key in the parent `FormGroup` or
 `FormArray`.\n *    * \n *    * Accepts a name as a string or a number.\n *    * \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 *\n // TODO(issue/24571): remove '!.\n @Input('formControlName') name !:
string | number
| null;\n\n /**\n * @description\n * Triggers a warning that this input should not be used with reactive forms.\n
*\n @Input('disabled')\n set isDisabled(isDisabled: boolean) { ReactiveErrors.disabledAttrWarning(); }\n\n //
TODO(kara): remove next 4 properties once deprecation period is over\n\n /** @deprecated as of v6 *\n
@Input('ngModel') model: any;\n\n /** @deprecated as of v6 *\n @Output('ngModelChange') update = new
EventEmitter();\n\n /**\n * @description\n * Static property used to track whether any ngModel warnings have
been sent across\n * all instances of FormControlName. Used to support warning config of `"once".\n *\n *
@internal\n */\n static _ngModelWarningSentOnce = false;\n\n /**\n * @description\n * Instance property
used to track whether an ngModel warning has been sent out for this\n * particular FormControlName instance.
Used to support warning config of `"always".\n *\n * @internal\n */\n _ngModelWarningSent = false;\n\n
constructor(\n @Optional() @Host() @SkipSelf() parent: ControlContainer,\n @Optional() @Self()
@Inject(NG_VALIDATORS) validators: Array<Validator|ValidatorFn>,\n @Optional() @Self()
@Inject(NG_ASYNC_VALIDATORS) asyncValidators: Array<AsyncValidator|AsyncValidatorFn>,\n
@Optional() @Self() @Inject(NG_VALUE_ACCESSOR) valueAccessors: ControlValueAccessor[],\n
@Optional() @Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING) private _ngModelWarningConfig:
string|\n null) {\n super();\n this._parent = parent;\n this._rawValidators = validators || [];\n
this._rawAsyncValidators = asyncValidators || [];\n this.valueAccessor = selectValueAccessor(this,
valueAccessors);\n }\n\n /**\n * @description\n * A lifecycle method called when the directive's inputs change.
For internal use only.\n *\n * @param changes A object of key/value pairs for the set of changed inputs.\n *\n
ngOnChanges(changes: SimpleChanges) {\n if (!this._added)\n this._setUpControl();\n if (isPropertyUpdated(changes, this.viewModel)) {\n
_ngModelWarning('formControlName', FormControlName, this, this._ngModelWarningConfig);\n
this.viewModel = this.model;\n this.formDirective.updateModel(this, this.model);\n }\n }\n\n /**\n *
@description\n * Lifecycle method called before the directive's instance is destroyed. For internal use only.\n *\n
ngOnDestroy(): void {\n if (this.formDirective) {\n this.formDirective.removeControl(this);\n }\n }\n\n
/**\n * @description\n * Sets the new value for the view model and emits an `ngModelChange` event.\n *\n *
@param newValue The new value for the view model.\n *\n viewToModelUpdate(newValue: any): void {\n
this.viewModel = newValue;\n this.update.emit(newValue);\n }\n\n /**\n * @description\n * Returns an array
that represents the path from the top-level form to this control.\n * Each index is the string name of the control on
that level.\n
*\n get path(): string[] {\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(): any { return this._parent ? this._parent.formDirective : null; }\n\n /**\n * @description\n *
Synchronous validator function composed of all the synchronous validators\n * registered with this directive.\n
*\n get validator(): ValidatorFn|null { return composeValidators(this._rawValidators); }\n\n /**\n *
@description\n * Async validator function composed of all the async validators registered with this\n *
directive.\n *\n get asyncValidator(): AsyncValidatorFn {\n return
composeAsyncValidators(this._rawAsyncValidators) !;\n }\n\n private _checkParentType(): void {\n if
(!!(this._parent instanceof FormGroupName) &&\n this._parent instanceof AbstractFormGroupDirective) {\n
ReactiveErrors.ngModelGroupException();\n
}\n else if (\n !(this._parent instanceof FormGroupName) && !(this._parent instanceof FormGroupDirective)
&&\n !(this._parent instanceof FormArrayName)) {\n ReactiveErrors.controlParentException();\n }\n }\n\n
private _setUpControl() {\n this._checkParentType();\n (this as {control: FormControl}).control =
this.formDirective.addControl(this);\n if (this.control.disabled && this.valueAccessor !.setDisabledState) {\n
this.valueAccessor !.setDisabledState !(true);\n }\n this._added = true;\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 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';

/**
 * Defines the map of errors returned from failed validation checks.
 */
export type ValidationErrors = { [key: string]: any };

/**
 * An interface implemented by classes that perform synchronous validation.
 */
export interface Validator {
  /**
   * Provide a custom validator
   * The following example implements the `Validator` interface to create a 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 {
    /**
     * 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;
  }

  /**
   * Registers a callback function to call when the validator inputs change.
   * @param fn The callback function
   */
  registerOnChange?(fn: () => void): void;
}

/**
 * An interface implemented by classes that perform asynchronous validation.
 */
export interface AsyncValidator {
  /**
   * Provide a custom async validator directive
   * The following example implements the `AsyncValidator` interface to create an async validator directive with a custom error key.
   * ```typescript
   * import { of as observableOf } from 'rxjs';
   * @Directive({
   *   selector: '[customAsyncValidator]',
   *   providers: [
   *     { provide: NG_ASYNC_VALIDATORS, useExisting: CustomAsyncValidatorDirective, multi: true }
   *   ]
   * })
   * class CustomAsyncValidatorDirective implements AsyncValidator {
   *   validate(control: AbstractControl): Observable<ValidationErrors | null> {
   *     return observableOf({ 'custom': true });
   *   }
   * }
   * ```
   * @publicApi
   */
  export interface AsyncValidator extends Validator {
    /**
     * Method that performs async validation against the provided control.
     * @param control The control to validate against.
     * @returns A promise or observable that resolves a map of validation errors if validation fails, otherwise null.
     */
    validate(control: AbstractControl): Promise<ValidationErrors | null> | Observable<ValidationErrors | null>;
  }

  /**
   * Provider which adds `RequiredValidator` to the `NG_VALIDATORS` multi-provider list.
   */
  export const REQUIRED_VALIDATOR: StaticProvider = {
    provide: NG_VALIDATORS,
    useExisting: forwardRef(() => RequiredValidator),
    multi: true
  };

  /**
   * Provider which adds `CheckboxRequiredValidator` to the `NG_VALIDATORS` multi-provider list.
   */
  export const CHECKBOX_REQUIRED_VALIDATOR: StaticProvider = {
    provide: NG_VALIDATORS,
    useExisting: forwardRef(() => CheckboxRequiredValidator),
    multi: true
  };

  /**
   * A directive that adds the `required` validator to any controls marked with the `required` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.
   * @see [Form Validation](guide/form-validation)
   * @usageNotes
   * Adding a required validator using template-driven forms
   * ```html
   * <input name="fullName" ngModel required>
   * ```
   * @ngModule
   * FormsModule
   * @ngModule
   * ReactiveFormsModule
   * @publicApi
   */
  @Directive({
    selector: ':not([type=checkbox])[required][formControlName],:not([type=checkbox])[required][formControl],:not([type=checkbox])[required][ngModel]',
    providers: [REQUIRED_VALIDATOR],
    host: {
      '[attr.required]': 'required ? \'\' : null'
    }
  })
  export class RequiredValidator implements Validator {
    // TODO(issue/24571): remove '!'.
    private _required!: boolean;
    // TODO(issue/24571): remove '!'.
    private _onChange!: () => void;

    /**
     * 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.\n * Returns the validation result if enabled, otherwise null.\n */\n validate(control: AbstractControl):
ValidationErrors|null {\n return this.required ? Validators.required(control) : null;\n }\n\n /**\n *
@description\n * Registers a callback function to call when the validator inputs change.\n
*\n * @param fn The callback function\n */\n registerOnValidatorChange(fn: () => void): void {\n
this._onChange = fn; }\n\n\n /**\n * A Directive that adds the `required` validator to checkbox controls marked
with the\n * `required` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.\n * \n
* @see [Form Validation](guide/form-validation)\n * \n * @usageNotes\n * \n * ### Adding a required checkbox
validator using template-driven forms\n * \n * The following example shows how to add a checkbox required
validator to an input attached to an ngModel binding.\n * \n * ```\n * <input type="checkbox" name="active"\n
ngModel required>\n * ```\n * \n * @publicApi\n * @ngModule FormsModule\n * @ngModule
ReactiveFormsModule\n */\n @Directive({\n selector:\n
'input[type=checkbox][required][formControlName],input[type=checkbox][required][formControl],input[type=checkbox][required][ngModel]',\n
providers: [CHECKBOX_REQUIRED_VALIDATOR],\n host: {'[attr.required]':\n 'required ? \"\" : null'}\n})\n\n export class CheckboxRequiredValidator extends RequiredValidator {\n /**\n *
@description\n * Method that validates whether or not the checkbox has been checked.\n * Returns the validation
result if enabled, otherwise null.\n */\n validate(control: AbstractControl): ValidationErrors|null {\n return
this.required ? Validators.requiredTrue(control) : null;\n }\n\n\n /**\n * @description\n * Provider which adds
`EmailValidator` to the `NG_VALIDATORS` multi-provider list.\n */\n\n export const EMAIL_VALIDATOR: any =\n {\n provide: NG_VALIDATORS,\n useExisting: forwardRef(() => EmailValidator),\n multi: true\n};\n\n /**\n * A
directive that adds the `email` validator to controls marked with the\n * `email` attribute. The directive is provided
with the `NG_VALIDATORS` multi-provider list.\n * \n * @see [Form Validation](guide/form-validation)\n * \n *
@usageNotes\n * \n * ### Adding an email validator\n * \n * The following example shows
how to add an email validator to an input attached to an ngModel binding.\n * \n * ```\n * <input type="email"
name="email" ngModel email>\n * <input type="email" name="email" ngModel email="true">\n * <input
type="email" name="email" ngModel [email]="true">\n * ```\n * \n * @publicApi\n * @ngModule
FormsModule\n * @ngModule ReactiveFormsModule\n */\n @Directive({\n selector:\n
'[email][formControlName],[email][formControl],[email][ngModel]',\n providers:\n
[EMAIL_VALIDATOR]\n})\n\n export class EmailValidator implements Validator {\n // TODO(issue/24571):
remove '!\n private _enabled!: boolean;\n // TODO(issue/24571): remove '!\n private _onChange!: () =>
void;\n\n /**\n * @description\n * Tracks changes to the email attribute bound to this directive.\n */\n
@Input()\n set email(value: boolean|string) {\n this._enabled = value === " || value === true || value === 'true';\n
if (this._onChange) this._onChange();\n }\n\n\n /**\n * @description\n * Method
that validates whether an email address is valid.\n * Returns the validation result if enabled, otherwise null.\n */\n
validate(control: AbstractControl): ValidationErrors|null {\n return this._enabled ? Validators.email(control) :
null;\n }\n\n\n /**\n * @description\n * Registers a callback function to call when the validator inputs change.\n
*\n * @param fn The callback function\n */\n registerOnValidatorChange(fn: () => void): void {\n this._onChange
= fn; }\n\n\n /**\n * @description\n * A function that receives a control and synchronously returns a map of\n *
validation errors if present, otherwise null.\n * \n * @publicApi\n */\n\n export interface ValidatorFn {\n (control:\n
AbstractControl): ValidationErrors|null;\n }\n\n\n /**\n * @description\n * A function that receives a control and returns
a Promise or observable\n * that emits validation errors if present, otherwise null.\n * \n * @publicApi\n */\n\n
export interface AsyncValidatorFn {\n (control: AbstractControl):\n
Promise<ValidationErrors|null>|Observable<ValidationErrors|null>;\n }\n\n\n /**\n *
@description\n * Provider which adds `MinLengthValidator` to the `NG_VALIDATORS` multi-provider list.\n
*/\n\n export const MIN_LENGTH_VALIDATOR: any = {\n provide: NG_VALIDATORS,\n useExisting:\n
forwardRef(() => MinLengthValidator),\n multi: true\n};\n\n\n /**\n * A directive that adds minimum length
validation to controls marked with the\n * `minlength` attribute. The directive is provided with the
`NG_VALIDATORS` multi-provider list.\n * \n * @see [Form Validation](guide/form-validation)\n * \n *
@usageNotes\n * \n * ### Adding a minimum length validator\n * \n * 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">
 * ``
 * @ngModule ReactiveFormsModule
 * @ngModule
FormsModule
 * @publicApi
 * ^@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;
 *
 * @description
 * Tracks changes to the the minimum length bound to this directive.
 *
 * //
 * TODO(issue/24571): remove '!'.
 * @Input() minlength!: 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 ('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.
 *
 * validate(control: AbstractControl): ValidationErrors|null {
 return this.minlength == null ? null :
this._validator(control);
 }
 *
 * @description
 * Registers a callback function to call when the validator
inputs change.
 *
 * @param fn The callback function
 *
 * registerOnValidatorChange(fn: () => void): void
 {
 this._onChange = fn;
 }
 private _createValidator(): void {
 this._validator = Validators.minLength(
typeof this.minlength === 'number' ? this.minlength : parseInt(this.minlength, 10));
 }
 }
 *
 * @description
 * Provider which adds `MaxLengthValidator` to the `NG_VALIDATORS` multi-provider list.
 *
 * export const MAX_LENGTH_VALIDATOR: any = {
 provide: NG_VALIDATORS,
 useExisting:
forwardRef(() => 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.
 *
 * @see [Form Validation](guide/form-validation)
 *
 * @usageNotes
 *
 * ### Adding a maximum length
validator
 *
 * The following example shows how to add a maximum length validator to an input attached to an
 * ngModel binding.
 *
 * ``html
 * <input name="firstName" ngModel maxlength="25">
 * ``
 *
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
 * ^@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.
 *
 * //
 * 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 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.
 *
 * @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) @usageNotes

### Adding a pattern validator

The following example shows how to add a pattern validator to an input attached to an ngModel binding.

```

<input
  name="firstName" ngModel pattern="[a-zA-Z
  ]*">
  @ngModule ReactiveFormsModule
  @ngModule FormsModule
  @publicApi
  @Directive({
    selector: '[pattern][formControlName],[pattern][formControl],[pattern][ngModel]',
    providers:
    [PATTERN_VALIDATOR],
    host: {'[attr.pattern]': 'pattern ? pattern : null'}
  })
  export class PatternValidator
  implements Validator,
  OnChanges {
    // TODO(issue/24571): remove '!'.
    private _validator!: ValidatorFn;
    // TODO(issue/24571): remove '!'.
    private _onChange!: () => void;

    @description
    Tracks changes to the pattern bound to this directive.
    // TODO(issue/24571): remove '!'.
    @Input() pattern!:
    string | RegExp;

    @description
    A lifecycle method called when the directive's inputs change. For
    internal use only.
    @param changes A object of key/value pairs for the set of changed inputs.
    ngOnChanges(changes: SimpleChanges): void {
      if ('pattern' in changes) {
        this._createValidator();
        if (this._onChange) this._onChange();
      }
    }

    @description
    Method that validates whether the value matches the
    the pattern requirement.
    validate(control:
    AbstractControl): ValidationErrors|null {
      return this._validator(control);
    }

    @description
    Registers a callback function to call when the validator inputs change.
    @param fn The callback function
    registerOnValidatorChange(fn: () => void): void {
      this._onChange = fn;
    }

    private _createValidator(): void {
      this._validator = Validators.pattern(this.pattern);
    }
  }
  "
  @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
  @ngModule, Type} from '@angular/core';
  @ngModule {CheckboxControlValueAccessor} from './directives/checkbox_value_accessor';
  @ngModule {DefaultValueAccessor} from './directives/default_value_accessor';
  @ngModule {NgControlStatus, NgControlStatusGroup} from './directives/ng_control_status';
  @ngModule {NgForm} from './directives/ng_form';
  @ngModule {NgModel} from './directives/ng_model';
  @ngModule {NgModelGroup} from './directives/ng_model_group';
  @ngModule {NgNoValidate} from './directives/ng_no_validate_directive';
  @ngModule {NumberValueAccessor} from './directives/number_value_accessor';
  @ngModule {RadioControlValueAccessor} from './directives/radio_control_value_accessor';
  @ngModule {RangeValueAccessor} from './directives/range_value_accessor';
  @ngModule {FormControlDirective} from './directives/reactive_directives/form_control_directive';
  @ngModule {FormControlName} from './directives/reactive_directives/form_control_name';
  @ngModule {FormGroupDirective} from './directives/reactive_directives/form_group_directive';
  @ngModule {FormArrayName, FormGroupName} from './directives/reactive_directives/form_group_name';
  @ngModule {NgSelectOption, SelectControlValueAccessor} from './directives/select_control_value_accessor';
  @ngModule {NgSelectMultipleOption, SelectMultipleControlValueAccessor} from './directives/select_multiple_control_value_accessor';
  @ngModule {CheckboxRequiredValidator, EmailValidator, MaxLengthValidator, MinLengthValidator, PatternValidator, RequiredValidator} from './directives/validators';
  @ngModule {CheckboxControlValueAccessor} from './directives/checkbox_value_accessor';
  @ngModule {ControlValueAccessor} from './directives/control_value_accessor';
  @ngModule {DefaultValueAccessor} from './directives/default_value_accessor';
  @ngModule {NgControl} from './directives/ng_control';
  @ngModule {NgControlStatus, NgControlStatusGroup} from './directives/ng_control_status';
  @ngModule {NgForm} from './directives/ng_form';
  @ngModule {NgModel} from './directives/ng_model';
  @ngModule {NgModelGroup} from './directives/ng_model_group';
  @ngModule {NumberValueAccessor} from './directives/number_value_accessor';
  @ngModule {RadioControlValueAccessor} from './directives/radio_control_value_accessor';
  @ngModule {RangeValueAccessor} from './directives/range_value_accessor';
  @ngModule {FormControlDirective, NG_MODEL_WITH_FORM_CONTROL_WARNING} from './directives/reactive_directives/form_control_directive';
  @ngModule {FormControlName} from
  
```

```

./directives/reactive_directives/form_control_name';\nexport {FormGroupDirective} from
./directives/reactive_directives/form_group_directive';\nexport {FormArrayName, FormGroupName} from
./directives/reactive_directives/form_group_name';\nexport {NgSelectOption, SelectControlValueAccessor} from
./directives/select_control_value_accessor';\nexport {NgSelectMultipleOption,
SelectMultipleControlValueAccessor} from './directives/select_multiple_control_value_accessor';\n\nexport const
SHARED_FORM_DIRECTIVES: Type<any>[] = [\n NgNoValidate,\n NgSelectOption,\n
NgSelectMultipleOption,\n DefaultValueAccessor,\n NumberValueAccessor,\n RangeValueAccessor,\n
CheckboxControlValueAccessor,\n SelectControlValueAccessor,\n
SelectMultipleControlValueAccessor,\n RadioControlValueAccessor,\n NgControlStatus,\n
NgControlStatusGroup,\n RequiredValidator,\n MinLengthValidator,\n MaxLengthValidator,\n
PatternValidator,\n CheckboxRequiredValidator,\n EmailValidator,\n];\n\n\nexport const
TEMPLATE_DRIVEN_DIRECTIVES: Type<any>[] = [NgModel, NgModelGroup, NgForm];\n\n\nexport const
REACTIVE_DRIVEN_DIRECTIVES: Type<any>[] =[\n [FormControlDirective, FormGroupDirective,
FormControlName, FormGroupName, FormArrayName];\n\n\n/**\n * Internal module used for sharing directives
between FormsModule and ReactiveFormsModule\n */\n@NgModule({\n declarations:
SHARED_FORM_DIRECTIVES,\n exports: SHARED_FORM_DIRECTIVES,\n})\nexport class
ÉµInternalFormsSharedModule {\n}\n\nexport {ÉµInternalFormsSharedModule as
InternalFormsSharedModule};\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 {Injectable} from '@angular/core';\n\nimport {AsyncValidatorFn,
ValidatorFn} from './directives/validators';\nimport {AbstractControl, AbstractControlOptions, FormArray,
FormControl, FormGroup, FormHooks} from './model';\n\nfunction isAbstractControlOptions(options:
AbstractControlOptions | {[key: string]: any}):\n options is AbstractControlOptions {\n return
(<AbstractControlOptions>options).asyncValidators !== undefined ||\n
(<AbstractControlOptions>options).validators !== undefined ||\n
(<AbstractControlOptions>options).updateOn
!== undefined;\n}\n\n/**\n * @description\n * Creates an `AbstractControl` from a user-specified configuration.\n
*\n * The `FormBuilder` provides syntactic sugar that shortens creating instances of a `FormControl`,\n *
`FormGroup`, or `FormArray`. It reduces the amount of boilerplate needed to build complex\n * forms.\n */\n
*\n * @see [Reactive Forms Guide](/guide/reactive-forms)\n */\n * @publicApi\n
*/\n@Injectable()\nexport class FormBuilder {\n /**\n * @description\n * Construct a new `FormGroup`
instance.\n *\n * @param controlsConfig A collection of child controls. The key for each child is the name\n *
under which it is registered.\n *\n * @param options Configuration options object for the `FormGroup`. The
object can\n * have two shapes:\n *\n * 1) `AbstractControlOptions` object (preferred), which consists of:\n *
*\n * `validators`: A synchronous validator function, or an array of validator functions\n *
*\n * `asyncValidators`: A single async validator or array of async validator functions\n *
*\n * `updateOn`: The event upon which the control should be updated (options: 'change' | 'blur' |\n *
submit')\n *\n * 2) Legacy configuration object, which consists of:\n *
*\n * `validator`: A synchronous validator function, or an array of validator functions\n *
*\n * `asyncValidator`: A single async validator or array of async validator functions\n
*/\n */\n
group(\n controlsConfig: {[key: string]: any},\n options: AbstractControlOptions|{[key: string]: any}|null =
null): FormGroup {\n const controls = this._reduceControls(controlsConfig);\n\n let validators:
ValidatorFn|ValidatorFn[]|null = null;\n let asyncValidators: AsyncValidatorFn|AsyncValidatorFn[]|null = null;\n
let updateOn: FormHooks|undefined = undefined;\n\n if (options !== null) {\n if
(isAbstractControlOptions(options)) {\n // `options` are `AbstractControlOptions`\n validators =
options.validators !== null ? options.validators : null;\n asyncValidators = options.asyncValidators !== null ?
options.asyncValidators : null;\n updateOn = options.updateOn !== null ? options.updateOn : undefined;\n }
else {\n // `options` are legacy form group options\n validators = options['validator'] !== null ?
options['validator'] : null;\n asyncValidators = options['asyncValidator'] !== null ? options['asyncValidator']

```

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: null;
}
}
return new FormGroup(controls, { asyncValidators, updateOn, validators });
}
/**
 * @description
 * Construct a new `FormControl` with the given state, validators and options.
 * @param
 * formState Initializes the control with an initial state value, or
 * with an object that contains both a value and a
 * disabled status.
 * @param validatorOrOpts A synchronous validator function, or an array of
 * such
 * functions, or an `AbstractControlOptions` object that contains
 * validation functions and a validation trigger.
 * @param asyncValidator A single async validator or array of async validator
 * functions.
 * @usageNotes
 * ### Initialize a control as disabled
 * The following example returns a control with
 * an initial value in a disabled state.
 * <code-example
path="forms/ts/formBuilder/form_builder_example.ts" region="disabled-control">
</code-example>
control(
  formState: any, validatorOrOpts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,
  asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[]|null): FormControl {
return new
FormControl(formState, validatorOrOpts, asyncValidator);
}
/**
 * Constructs a new `FormArray` from
the given array of configurations,
 * validators and options.
 * @param controlsConfig An array of child
controls or control configs. Each
 * child control is given an index when it is registered.
 * @param
validatorOrOpts A synchronous validator function, or an array of
 * such functions, or an
`AbstractControlOptions` object that contains
 * validation functions and a validation trigger.
 * @param
asyncValidator A single async validator or array of async validator
 * functions.
 */
array(
controlsConfig: any[],
  validatorOrOpts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,
  asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[]|null):
FormArray {
const controls = controlsConfig.map(c => this._createControl(c));
return new
FormArray(controls, validatorOrOpts, asyncValidator);
}
/** @internal */
_reduceControls(controlsConfig: {[k: string]: any}): {[key: string]: AbstractControl} {
const controls: {[key:
string]: AbstractControl} = {};
Object.keys(controlsConfig).forEach(controlName => {
controls[controlName] = this._createControl(controlsConfig[controlName]);
});
return controls;
}
/**
@internal */
_createControl(controlConfig: any): AbstractControl {
if (controlConfig instanceof FormControl
|| controlConfig instanceof FormGroup
|| controlConfig instanceof FormArray) {
return
controlConfig;
} else if (Array.isArray(controlConfig)) {
const value = controlConfig[0];
const
validator: ValidatorFn = controlConfig.length > 1 ? controlConfig[1] : null;
const asyncValidator:
AsyncValidatorFn
= controlConfig.length > 2 ? controlConfig[2] : null;
return this.control(value, validator, asyncValidator);
} else {
return this.control(controlConfig);
}
}
}
/** @license
 * Copyright Google Inc. All
Rights Reserved.
 * Use of this source code is governed by an MIT-style license that can be
 * found in the
LICENSE file at https://angular.io/license
 */
@module
 * @description
 * Entry point for all public
APIs of the common package.
 */
import { Version } from '@angular/core';
/** @publicApi */
export
const VERSION = new Version('9.0.7');
/** @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 { ModuleWithProviders, NgModule } from '@angular/core';
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 [Forms Guide](/guide/forms)
 * @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 [Forms](guide/reactive-forms)
 * @see [Reactive
Forms Guide](/guide/reactive-forms)
 * @publicApi */
@NgModule({
declarations:

```

```

[REACTIVE_DRIVEN_DIRECTIVES],\n providers: [FormBuilder, RadioControlRegistry],\n
exports: [InternalFormsSharedModule, REACTIVE_DRIVEN_DIRECTIVES]\n))\nexport class
ReactiveFormsModule {\n /**\n * @description\n * Provides options for configuring the reactive forms
module.\n *\n * @param opts An object of configuration options\n ** `warnOnNgModelWithFormControl`
Configures when to emit a warning when an `ngModel`\n * binding is used with reactive form directives.\n */\n
static withConfig(opts: {\n /** @deprecated as of v6 */ warnOnNgModelWithFormControl: 'never' | 'once' |
'always'\n }): ModuleWithProviders<ReactiveFormsModule> {\n return {\n ngModule:
ReactiveFormsModule,\n providers: [{\n provide: NG_MODEL_WITH_FORM_CONTROL_WARNING,\n
useValue: opts.warnOnNgModelWithFormControl\n }]\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\n/**\n * @module\n * @description\n * This module is used for handling user input, by defining and building a
`FormGroup` that\n * consists of `FormControl` objects, and mapping them onto the DOM. `FormControl`\n *
objects can then be used to read information from the form DOM elements.\n *\n * Forms providers are not included
in default providers; you must import these providers\n * explicitly.\n */\n\nexport
{µInternalFormsSharedModule} from './directives';\nexport {AbstractControlDirective} from
'./directives/abstract_control_directive';\nexport {AbstractFormGroupDirective} from
'./directives/abstract_form_group_directive';\nexport {CheckboxControlValueAccessor} from
'./directives/checkbox_value_accessor';\nexport {ControlContainer} from './directives/control_container';\nexport
{ControlValueAccessor, NG_VALUE_ACCESSOR} from './directives/control_value_accessor';\nexport
{COMPOSITION_BUFFER_MODE, DefaultValueAccessor} from './directives/default_value_accessor';\nexport
{Form} from
'./directives/form_interface';\nexport {NgControl} from './directives/ng_control';\nexport {NgControlStatus,
NgControlStatusGroup} from './directives/ng_control_status';\nexport {NgForm} from
'./directives/ng_form';\nexport {NgModel} from './directives/ng_model';\nexport {NgModelGroup} from
'./directives/ng_model_group';\nexport {µNgNoValidate} from './directives/ng_no_validate_directive';\nexport
{NumberValueAccessor} from './directives/number_value_accessor';\nexport {RadioControlValueAccessor} from
'./directives/radio_control_value_accessor';\nexport {RangeValueAccessor} from
'./directives/range_value_accessor';\nexport {FormControlDirective} from
'./directives/reactive_directives/form_control_directive';\nexport {FormControlName} from
'./directives/reactive_directives/form_control_name';\nexport {FormGroupDirective} from
'./directives/reactive_directives/form_group_directive';\nexport {FormArrayName} from
'./directives/reactive_directives/form_group_name';\nexport {FormGroupName}
from './directives/reactive_directives/form_group_name';\nexport {NgSelectOption, SelectControlValueAccessor}
from './directives/select_control_value_accessor';\nexport {SelectMultipleControlValueAccessor} from
'./directives/select_multiple_control_value_accessor';\nexport {µNgSelectMultipleOption} from
'./directives/select_multiple_control_value_accessor';\nexport {AsyncValidator, AsyncValidatorFn,
CheckboxRequiredValidator, EmailValidator, MaxLengthValidator, MinLengthValidator, PatternValidator,
RequiredValidator, ValidationErrors, Validator, ValidatorFn} from './directives/validators';\nexport {FormBuilder}
from './form_builder';\nexport {AbstractControl, AbstractControlOptions, FormArray, FormControl, FormGroup}
from './model';\nexport {NG_ASYNC_VALIDATORS, NG_VALIDATORS, Validators} from
'./validators';\nexport {VERSION} from './version';\n\nexport * from './form_providers';\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/**\n * @module\n * @description\n * Entry point for all public APIs of this package.\n */\n\nexport * from
'./src/forms';\n\n// This file only reexports content of the `src` folder. Keep it that way.\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// This file is not used to build this

```

module. It is only used during editing\n// by the TypeScript language service and during build for verification.

\ngc\n// replaces this file with production index.ts when it rewrites private symbol\n// names.\n\nexport \* from './public\_api';\n", "/\*\*\n \* Generated bundle index. Do not edit.\n \*\n\nexport \* from './index';\n\nexport {InternalFormsSharedModule as Éµangular\_packages\_forms\_forms\_d, REACTIVE\_DRIVEN\_DIRECTIVES as Éµangular\_packages\_forms\_forms\_c, SHARED\_FORM\_DIRECTIVES as Éµangular\_packages\_forms\_forms\_a, TEMPLATE\_DRIVEN\_DIRECTIVES as Éµangular\_packages\_forms\_forms\_b} from './src/directives';\n\nexport {CHECKBOX\_VALUE\_ACCESSOR as Éµangular\_packages\_forms\_forms\_e} from './src/directives/checkbox\_value\_accessor';\n\nexport {DEFAULT\_VALUE\_ACCESSOR as Éµangular\_packages\_forms\_forms\_f} from './src/directives/default\_value\_accessor';\n\nexport {AbstractControlStatus as Éµangular\_packages\_forms\_forms\_g, NgControlStatusHost as Éµangular\_packages\_forms\_forms\_h} from './src/directives/ng\_control\_status';\n\nexport {formDirectiveProvider as Éµangular\_packages\_forms\_forms\_i} from './src/directives/ng\_form';\n\nexport {formControlBinding as Éµangular\_packages\_forms\_forms\_j} from './src/directives/ng\_model';\n\nexport {modelGroupProvider as Éµangular\_packages\_forms\_forms\_k} from './src/directives/ng\_model\_group';\n\nexport {NgNoValidate as Éµangular\_packages\_forms\_forms\_y} from './src/directives/ng\_no\_validate\_directive';\n\nexport {NUMBER\_VALUE\_ACCESSOR as Éµangular\_packages\_forms\_forms\_l} from './src/directives/number\_value\_accessor';\n\nexport {RADIO\_VALUE\_ACCESSOR as Éµangular\_packages\_forms\_forms\_m, RadioControlRegistry as Éµangular\_packages\_forms\_forms\_n} from './src/directives/radio\_control\_value\_accessor';\n\nexport {RANGE\_VALUE\_ACCESSOR as Éµangular\_packages\_forms\_forms\_o} from './src/directives/range\_value\_accessor';\n\nexport {NG\_MODEL\_WITH\_FORM\_CONTROL\_WARNING as Éµangular\_packages\_forms\_forms\_p, formControlBinding as Éµangular\_packages\_forms\_forms\_q} from './src/directives/reactive\_directives/form\_control\_directive';\n\nexport {controlNameBinding as Éµangular\_packages\_forms\_forms\_r} from './src/directives/reactive\_directives/form\_control\_name';\n\nexport {formDirectiveProvider as Éµangular\_packages\_forms\_forms\_s} from './src/directives/reactive\_directives/form\_group\_directive';\n\nexport {formArrayNameProvider as Éµangular\_packages\_forms\_forms\_u, formGroupNameProvider as Éµangular\_packages\_forms\_forms\_t} from './src/directives/reactive\_directives/form\_group\_name';\n\nexport {SELECT\_VALUE\_ACCESSOR as Éµangular\_packages\_forms\_forms\_v} from './src/directives/select\_control\_value\_accessor';\n\nexport {NgSelectMultipleOption as Éµangular\_packages\_forms\_forms\_x, SELECT\_MULTIPLE\_VALUE\_ACCESSOR as Éµangular\_packages\_forms\_forms\_w} from './src/directives/select\_multiple\_control\_value\_accessor';\n\nexport {CHECKBOX\_REQUIRED\_VALIDATOR as Éµangular\_packages\_forms\_forms\_ba, EMAIL\_VALIDATOR as Éµangular\_packages\_forms\_forms\_bb, MAX\_LENGTH\_VALIDATOR as Éµangular\_packages\_forms\_forms\_bd, MIN\_LENGTH\_VALIDATOR as Éµangular\_packages\_forms\_forms\_bc, PATTERN\_VALIDATOR as Éµangular\_packages\_forms\_forms\_be, REQUIRED\_VALIDATOR as Éµangular\_packages\_forms\_forms\_z} from './src/directives/validators';\n\n], "names": ["InjectionToken", "forwardRef", "Directive", "Renderer2", "ElementRef", "getDOM", "Optional", "Inject", "Self", "forkJoin", "map", "isPromise", "from", "isObservable", "Injectable", "Input", "Injector", "Examples", "looseIdentical", "Host", "\_buildValueString", "\_extractId", "isDevMode", "EventEmitter", "SkipSelf", "resolvedPromise", "Output", "formControlBinding", "formDirectiveProvider", "NgNoValidate", "NgSelectMultipleOption", "NgModule", "Version", "InternalFormsSharedModule"], "mappings": ";;;;;;;;;;IAAA;IACA;IACA;IACA;IACA;IAEA;IACA;IACA;IAEA;IAEA,IAAI,aAAa,GAAG,SAAS,CAAC,EAAE,CAAC,EAAE;IACnC,IAAI,aAAa,GAAG,MAAM,CAAC,cAAc;IACzC,SAAS,EAAE,SAAS,EAAE,EAAE,EAAE,YAAY,KAAK,IAAI,UAAU,CAAC,EAAE,CAAC,EAAE,EAAE,CAAC,CAAC,SAAS,GAAG,CAAC,CAAC,EAAE,CAAC;IACpF,QAAQ,UAAU,CAAC,EAAE,CAAC,EAAE,EAAE,KAAK,IAAI,CAAC,IAAI,CAAC,EAAE,IAAI,CAAC,CAAC,cAAc,CAAC,CAAC,CAAC,EAAE,CAAC,CAAC,CAAC,CAAC,GAAG,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,EAAE,CAAC;IACnF,IAAI,OAAO,aAAa,CAAC,CAAC,EAAE,CAAC,CAAC,CAAC;IAC/B,CAAC,CAAC;;A

AEF,IAAO,SAAS,SAAS,CAAC,CAAC,EAAE,CAAC,EAAE;IAChC,IAAI,aAAa,CAAC,CAAC,EAAE,CAAC,C  
AAC,CAAC;IACxB,IAAI,SAAS,EAAE,GAAG,EAAE,IAAI,CAAC,WAAW,GAAG,CAAC,CAAC,EAAE;IAC3C  
,IAAI,CAAC,CAAC,SAAS,GAAG,CAAC,KAAK,IAAI,GAAG,MAAM,CAAC,MAAM,CAAC,CAAC,CAAC,IA  
AI,EAAE,CAAC,SAAS,GAAG,CAAC,CAAC,SAAS,EAAE,IAAI,EAAE,EAAE,CAAC,CAAC;IACzF,CAAC;;A  
AED,IAAO,IAAI,QAAQ,GAAG,WAAW;IACjC,IAAI,QAAQ,GAAG,MAAM,CAAC,MAAM,IAAI,SAAS,QAA  
Q,CAAC,CAAC,EAAE;IACrD,QAAQ,KAAK,IAAI,CAAC,EAAE,CAAC,GAAG,CAAC,EAAE,CAAC,GAAG,S  
AAS,CAAC,MAAM,EAAE,CAAC,GAAG,CAAC,EAAE,CAAC,EAAE,EAAE;IAC7D,YAAY,CAAC,GAAG,SA  
AS,CAAC,CAAC,CAAC,CAAC;IAC7B,YAAY,KAAK,IAAI,CAAC,IAAI,CAAC,EAAE,IAAI,MAAM,CAAC,S  
AAS,CAAC,cAAc,CAAC,IAAI,CAAC,CAAC,EAAE,CAAC,CAAC,EAAE,CAAC,CAAC,CAAC,CAAC,GAAG,  
CAAC,CAAC,CAAC,CAAC,CAAC;IACzF,SAAS;IACt,QAAQ,OAAO,CAAC,CAAC;IACjB,MAAK;IACL,IAA  
I,OAAO,QAAQ,CAAC,KAAK,CAAC,IAAI,EAAE,SAAS,CAAC,CAAC;IAC3C,EAAC;;AAED,IAAO,SAAS,M  
AAM,CAAC,CAAC,EAAE,CAAC,EAAE;IAC7B,IAAI,IAAI,CAAC,GAAG,EAAE,CAAC;IACf,IAAI,KAAK,IA  
AI,CAAC,IAAI,CAAC,EAAE,IAAI,MAAM,CAAC,SAAS,CAAC,cAAc,CAAC,IAAI,CAAC,CAAC,EAAE,CAA  
C,CAAC,IAAI,CAAC,CAAC,OAAO,CAAC,CAAC,CAAC,GAAG,CAAC;IACvF,QAAQ,CAAC,CAAC,CAAC,C  
AAC,GAAG,CAAC,CAAC,CAAC,CAAC,CAAC;IACpB,IAAI,IAAI,CAAC,IAAI,IAAI,IAAI,OAAO,MAAM,CA  
AC,qBAAqB,KAAK,UAAU;IACvE,QAAQ,KAAK,IAAI,CAAC,GAAG,CAAC,EAAE,CAAC,GAAG,MAAM,C  
AAC,qBAAqB,CAAC,CAAC,CAAC,EAAE,CAAC,GAAG,CAAC,CAAC,MAAM,EAAE,CAAC,EAAE,EAAE;I  
AChF,YAAY,IAAI,CAAC,CAAC,OAAO,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,GAAG,CAAC,IAAI,MAA  
M,CAAC,SAAS,CAAC,oBAAoB,CAAC,IAAI,CAAC,CAAC,EAAE,CAAC,CAAC,CAAC,CAAC,CAAC;IAC1F,  
gBAAgB,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,GAAG,CAAC,CAAC,CAAC,CAAC,CAAC,CAAC,  
CAAC,CAAC;IAC1C,SAAS;IACt,IAAI,OAAO,CAAC,CAAC;IACb,CAAC;;AAED,IAAO,SAAS,UAAU,CAAC,  
UAAU,EAAE,MAAM,EAAE,GAAG,EAAE,IAAI,EAAE;IAC1D,IAAI,IAAI,CAAC,GAAG,SAAS,CAAC,MAA  
M,EAAE,CAAC,GAAG,CAAC,GAAG,CAAC,GAAG,MAAM,GAAG,IAAI,KAAK,IAAI,GAAG,IAAI,GAAG,M  
AAM,CAAC,wBAAwB,CAAC,MAAM,EAAE,GAAG,CAAC,GAAG,IAAI,EAAE,CAAC,CAAC;IACjI,IAAI,IA  
AI,OAAO,OAAO,KAAK,QAAQ,IAAI,OAAO,OAAO,CAAC,QAAQ,KAAK,UAAU,EAAE,CAAC,GAAG,OAA  
O,CAAC,QAAQ,CAAC,UAAU,EAAE,MAAM,EAAE,GAAG,EAAE,IAAI,CAAC,CAAC;IACnI,SAAS,KAAK,I  
AAI,CAAC,GAAG,UAAU,CAAC,MAAM,GAAG,CAAC,EAAE,CAAC,IAAI,CAAC,EAAE,CAAC,EAAE,EAA  
E,IAAI,CAAC,GAAG,UAAU,CAAC,CAAC,CAAC,EAAE,CAAC,GAAG,CAAC,CAAC,GAAG,CAAC,GAAG,C  
AAC,CAAC,CAAC,CAAC,GAAG,CAAC,GAAG,CAAC,GAAG,CAAC,CAAC,MAAM,EAAE,GAAG,EAAE,C  
AAC,CAAC,GAAG,CAAC,CAAC,MAAM,EAAE,GAAG,CAAC,KAAK,CAAC,CAAC;IACtJ,IAAI,OAAO,CAA  
C,GAAG,CAAC,IAAI,CAAC,IAAI,MAAM,CAAC,cAAc,CAAC,MAAM,EAAE,GAAG,EAAE,CAAC,CAAC,EA  
AE,CAAC,CAAC;IACIE,CAAC;;AAED,IAAO,SAAS,OAAO,CAAC,UAAU,EAAE,SAAS,EAAE;IAC/C,IAAI,O  
AAO,UAAU,MAAM,EAAE,GAAG,EAAE,EAAE,SAAS,CAAC,MAAM,EAAE,GAAG,EAAE,UAAU,CAAC,CA  
AC,EAAE;IACzE,CAAC;;AAED,IAAO,SAAS,UAAU,CAAC,WAAW,EAAE,aAAa,EAAE;IACvD,IAAI,IAAI,O  
AAO,OAAO,KAAK,QAAQ,IAAI,OAAO,OAAO,CAAC,QAAQ,KAAK,UAAU,EAAE,OAAO,OAAO,CAAC,QA  
AQ,CAAC,WAAW,EAAE,aAAa,CAAC,CAAC;IACnI,CAAC;;AAED,IAAO,SAAS,SAAS,CAAC,OAAO,EAAE,  
UAAU,EAAE,CAAC,EAAE,SAAS,EAAE;IAC7D,IAAI,OAAO,KAAK,CAAC,KAAK,CAAC,GAAG,OAAO,CA  
AC,EAAE,UAAU,OAAO,EAAE,MAAM,EAAE;IAC/D,QAAQ,SAAS,SAAS,CAAC,KAAK,EAAE,EAAE,IAAI,  
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EAAE,MAAM,CAAC,CAAC,CAAC,CAAC,EAAE,EAAE;IACnG,QAAQ,SAAS,QAAQ,CAAC,KAAK,EAAE,E  
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Found

in path(s):

\* /opt/cola/permits/1099647491\_1602536489.34/0/forms-9-0-7-2-tgz/package/bundles/forms.umd.js.map

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

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```
* @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license\n *\nimport { InjectionToken } from '@angular/core';\n\n\n * @description\n * Defines an interface that acts as a bridge between the Angular forms API and a native element in the DOM.\n *\n * Implement this interface to create a custom form control directive that integrates with Angular forms.\n *\n * @see DefaultValueAccessor\n *\n * @publicApi\n\nexport interface ControlValueAccessor {\n\n * @description\n * Writes a new value to the element.\n *\n * This method is called by the forms API to write to the view when programmatic changes from model to view are requested.\n *\n * @usageNotes\n * ### Write a value to the element\n *\n * The following example writes a value to the native DOM element.\n *\n * ```ts\n * writeValue(value: any): void {\n * this._renderer.setProperty(this._elementRef.nativeElement, 'value', value);\n * }\n * ```\n *\n * @param obj The new value for the element\n *\n * writeValue(obj: any): void;\n\n\n * @description\n * Registers a callback function that is called when the control's value changes in the UI.\n *\n * This method is called by the forms API on initialization to update the form model when values propagate from the view to the model.\n *\n * When implementing the `registerOnChange` method in your own value accessor, 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 * ```ts\n * registerOnChange(fn: (_: any) => void): void {\n * this._onChange = fn;\n * }\n * ```\n *\n * When the value changes in the UI, call the registered function to allow the forms API to update itself.\n *\n * ```ts\n * host: {\n * '(change)': '_onChange($event.target.value)\n * }\n * ```\n *\n * @param fn The callback function to register\n *\n * registerOnChange(fn: any): void;\n\n\n * @description\n * Registers a callback function is called by the forms API on initialization to update the form model on blur.\n *\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'.\n *\n * @usageNotes\n * ### Store the callback function\n *\n * The following example stores the provided function as an internal method.\n *\n * ```ts\n * registerOnTouched(fn: any): void {\n * this._onTouched = fn;\n * }\n * ```\n *\n * On blur (or equivalent), your class should call the registered function to allow the forms API to update itself.\n *\n * ```ts\n * host: {\n * '(blur)': '_onTouched()\n * }\n * ```\n *\n * @param fn The callback function to register\n *\n * registerOnTouched(fn: any): void;\n\n\n * @description\n * Function that is called by the forms API when the control status changes to or from 'DISABLED'. Depending on the status, it enables or disables the appropriate DOM element.\n *\n * @usageNotes\n * The following is an example of writing the disabled property to a native DOM element:\n *\n * ```ts\n * setDisabledState(isDisabled: boolean): void {\n * this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\n * }\n * ```\n *\n * @param
```

```

isDisabled The disabled status to set on the element\n */\n setDisabledState?(isDisabled: boolean):
void;\n}\n\n/**\n * Used to provide a `ControlValueAccessor` for form controls.\n *\n * See
`DefaultValueAccessor` for how to implement one.\n *\n * @publicApi\n */\nexport const
NG_VALUE_ACCESSOR = new InjectionToken<ControlValueAccessor>('NgValueAccessor');\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, Renderer2, forwardRef} from '@angular/core';\n\nimport {ControlValueAccessor,
NG_VALUE_ACCESSOR} from './control_value_accessor';\n\nexport const CHECKBOX_VALUE_ACCESSOR:
any = {\n  provide: NG_VALUE_ACCESSOR,\n  useExisting: forwardRef(() =>
CheckboxControlValueAccessor),\n  multi: true,\n};\n\n/**\n * @description\n * A `ControlValueAccessor` for
writing a value and listening to changes on a checkbox input\n * element.\n *\n * @usageNotes\n *\n * ### Using a
checkbox with a reactive form.\n *\n * The following example shows how to use a checkbox with a reactive form.\n
*\n * ```ts\n * const rememberLoginControl = new FormControl();\n * ```\n *\n * ```\n * <input type="checkbox"\n
[formControl]="rememberLoginControl">\n * ```\n *\n * @ngModule ReactiveFormsModule\n * @ngModule
FormsModule\n * @publicApi\n */\n@Directive({\n  selector:\n
'input[type=checkbox][formControlName],input[type=checkbox][formControl],input[type=checkbox][ngModel]',\n
host: {'(change)': 'onChange($event.target.checked)', '(blur)': 'onTouched()'},\n  providers:
[CHECKBOX_VALUE_ACCESSOR]})\nexport class CheckboxControlValueAccessor implements
ControlValueAccessor
{\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  constructor(private
_renderer: Renderer2, private _elementRef: ElementRef) {\n\n  /**\n * Sets the "checked" property on the input
element.\n *\n * @param value The checked value\n */\n  writeValue(value: any): void {\n
this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value);\n  }\n\n  /**\n * @description\n *
Registers a function called when the control value changes.\n *\n * @param fn The callback function\n */\n  registerOnChange(fn: (_: any) => {}): void { this.onChange = fn; }\n\n  /**\n * @description\n * Registers a
function called when the control is touched.\n *\n * @param fn The callback function\n */\n  registerOnTouched(fn: () => {}): void { this.onTouched = fn; }\n\n  /**\n * Sets the "disabled" property on the
input element.\n *\n * @param isDisabled The disabled value\n */\n  setDisabledState(isDisabled: boolean):
void {\n  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\n  }\n}\n\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 {ÉmugetDOM as
getDOM} from '@angular/common';\n\nimport {Directive, ElementRef, Inject, InjectionToken, Optional, Renderer2,
forwardRef} from '@angular/core';\n\nimport {ControlValueAccessor, NG_VALUE_ACCESSOR} from
'./control_value_accessor';\n\nexport const DEFAULT_VALUE_ACCESSOR: any = {\n  provide:
NG_VALUE_ACCESSOR,\n  useExisting: forwardRef(() => DefaultValueAccessor),\n  multi: true\n};\n\n/**\n *
We must check whether the agent is Android
because composition events\n * behave differently between iOS and Android.\n */\nfunction _isAndroid(): boolean
{\n  const userAgent = getDOM() ? getDOM().getUserAgent() : '';\n  return /android
(\\d+)/.test(userAgent.toLowerCase());\n}\n\n/**\n * @description\n * Provide this token to control if form
directives buffer IME input until\n * the "compositionend" event occurs.\n *\n * @publicApi\n */\nexport const
COMPOSITION_BUFFER_MODE = new InjectionToken<boolean>('CompositionEventMode');\n\n/**\n *
@description\n * The default `ControlValueAccessor` for writing a value and listening to changes on input\n *
elements. The accessor is used by the `FormControlDirective`, `FormControlName`, and\n * `NgModel`
directives.\n *\n * @usageNotes\n *\n * ### Using the default value accessor\n *\n * The following example shows
how to use an input element that activates the default value accessor\n * (in this case, a text field).\n *\n * ```ts\n *
const firstNameControl = new FormControl();\n * ```\n

```

```

*\n * ```\n * <input type="text" [formControl]="firstNameControl">\n * ```\n *\n * @ngModule
ReactiveFormsModule\n * @ngModule FormsModule\n * @publicApi\n *\n @Directive({\n selector:\n
'input:not([type=checkbox])[formControlName],textarea[formControlName],input:not([type=checkbox])[formContr
ol],textarea[formControl],input:not([type=checkbox])[ngModel],textarea[ngModel],[ngDefaultControl]',\n //
TODO: vsavkin replace the above selector with the one below it once\n //
https://github.com/angular/angular/issues/3011 is implemented\n // selector:
'[ngModel],[formControl],[formControlName]',\n host: {\n '(input)':
'$any(this)._handleInput($event.target.value)',\n '(blur)': 'onTouched()',\n '(compositionstart)':
'$any(this)._compositionStart()',\n '(compositionend)': '$any(this)._compositionEnd($event.target.value)\n },\n
providers: [DEFAULT_VALUE_ACCESSOR]\n})\n\nexport class DefaultValueAccessor implements
ControlValueAccessor {\n /**\n * @description\n
* The registered callback function called when an input 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 /** Whether the user is creating a composition string (IME
events).\n * ^\n private _composing = false;\n\n constructor(\n private _renderer: Renderer2, private _elementRef:
ElementRef,\n @Optional() @Inject(COMPOSITION_BUFFER_MODE) private _compositionMode: boolean)\n {\n if (this._compositionMode === null) {\n this._compositionMode = !_isAndroid();\n }\n }\n\n /**\n *
Sets the "value" property on the input element.\n *\n * @param value The checked value\n *\n
writeValue(value: any): void {\n const normalizedValue = value == null ? '' : value;\n
this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);\n }\n\n /**\n *
@description\n
* Registers a function called when the control value changes.\n *\n * @param fn The callback function\n *\n
registerOnChange(fn: (_: any) => void): void { this.onChange = fn; }\n\n /**\n * @description\n * Registers a
function called when the control is touched.\n *\n * @param fn The callback function\n *\n
registerOnTouched(fn: () => void): void { this.onTouched = fn; }\n\n /**\n * Sets the "disabled" property on the
input element.\n *\n * @param isDisabled The disabled value\n *\n setDisabledState(isDisabled: boolean):
void {\n this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\n }\n\n /** @internal
*\n * ^\n _handleInput(value: any): void {\n if (!this._compositionMode || (this._compositionMode &&
!this._composing)) {\n this.onChange(value);\n }\n }\n\n /** @internal\n * ^\n _compositionStart(): void {\n
this._composing = true; }\n\n /** @internal\n * ^\n _compositionEnd(value: any): void {\n this._composing
= false;\n this._compositionMode && this.onChange(value);\n }\n }\n\n /**\n * @license\n * Copyright Google
Inc. All Rights Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found
in the LICENSE file at https://angular.io/license\n *\n\nimport {Observable} from 'rxjs';\nimport {AbstractControl}
from './model';\nimport {ValidationErrors} from './validators';\n\n/**\n * @description\n * Base class for control
directives.\n *\n * This class is only used internally in the `ReactiveFormsModule` and the `FormsModule`.\n *\n *
@publicApi\n *\n\nexport abstract class AbstractControlDirective {\n /**\n * @description\n * A reference to the
underlying control.\n *\n * @returns the control that backs this directive. Most properties fall through to that
instance.\n *\n abstract get control(): AbstractControl|null;\n\n /**\n * @description\n * Reports the value of
the control if it is present, otherwise null.\n *\n get value():\n
any { return this.control ? this.control.value : null; }\n\n /**\n * @description\n * Reports whether the control is
valid. A control is considered valid if no\n * validation errors exist with the current value.\n * If the control is not
present, null is returned.\n *\n get valid(): boolean|null { return this.control ? this.control.valid : null; }\n\n /**\n
* @description\n * Reports whether the control is invalid, meaning that an error exists in the input value.\n * If
the control is not present, null is returned.\n *\n get invalid(): boolean|null { return this.control ?
this.control.invalid : null; }\n\n /**\n * @description\n * Reports whether a control is pending, meaning that that
async validation is occurring and\n * errors are not yet available for the input value. If the control is not present,
null is\n * returned.\n *\n get pending(): boolean|null { return this.control ? this.control.pending : null; }\n\n
/**\n * @description\n *

```

Reports whether the control is disabled, meaning that the control is disabled 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.

```

    /\n get disabled(): boolean|null { return this.control ? this.control.disabled : null; }
    /\n /**
    * @description
    * Reports whether the control is enabled, meaning that the control is included in ancestor calculations of validity or value. If the control is not present, null is returned.
    /\n get enabled(): boolean|null {
    return this.control ? this.control.enabled : null; }
    /\n /**
    * @description
    * Reports the control's validation errors. If the control is not present, null is returned.
    /\n get errors(): ValidationErrors|null { return this.control ? this.control.errors : null; }
    /\n /**
    * @description
    * Reports whether the control is pristine, meaning that the user has not yet changed the value in the UI. If the control is not present, null is returned.
    /\n get pristine(): boolean|null { return this.control ? this.control.pristine : null; }
    /\n /**
    * @description
    * Reports whether the control is dirty, meaning that the user has changed the value in the UI. If the control is not present, null is returned.
    /\n get dirty(): boolean|null { return this.control ? this.control.dirty : null; }
    /\n /**
    * @description
    * Reports whether the control is touched, meaning that the user has triggered a `blur` event on it. If the control is not present, null is returned.
    /\n get touched(): boolean|null { return this.control ? this.control.touched : null; }
    /\n /**
    * @description
    * Reports the validation status of the control. Possible values include: 'VALID', 'INVALID', 'DISABLED', and 'PENDING'.
    /\n get status(): string|null { return this.control ? this.control.status : null; }
    /\n /**
    * @description
    * Reports whether the control is untouched, meaning that the user has not yet triggered a `blur` event on it. If the control is not present, null is returned.
    /\n get untouched(): boolean|null { return this.control ? this.control.untouched : null; }
    /\n /**
    * @description
    * Returns a multicasting observable that emits a validation status whenever it is calculated for the control. If the control is not present, null is returned.
    /\n get statusChanges(): Observable<any>|null { return this.control ? this.control.statusChanges : null; }
    /\n /**
    * @description
    * Returns a multicasting observable of value changes for the control that emits every time the value of the control changes in the UI or programmatically.
    /\n get valueChanges(): Observable<any>|null { return this.control ? this.control.valueChanges : null; }
    /\n /**
    * @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.
    /\n get path(): string[]|null { return null; }
    /\n /**
    * @description
    * Resets the control with the provided value if the control is present.
    /\n reset(value: any = undefined): void {
    if (this.control) this.control.reset(value);
    }
    /\n /**
    * @description
    * Reports whether the control with the given path has the error specified.
    * @param errorCode The code of the error to check
    * @param path A list of control names that designates how to move from the current control to the control that should be queried for errors.
    * @usageNotes
    * For example, for the following
    `FormGroup`:\n * ``\n * form = new FormGroup({\n * address: new FormGroup({ street: new FormControl() })\n * });\n * ``\n * The path to the 'street' control from the root form would be 'address' -> 'street'.
    * It can be provided to this method in one of two formats:
    * 1. An array of string control names, e.g. `['address', 'street']`
    * 1. A period-delimited list of control names in one string, e.g. `address.street`
    * If no path is given, this method checks for the error on the current control.
    * @returns whether the given error is present in the control at the given path.
    * If the control is not present, false is returned.
    /\n hasError(errorCode: string, path?: Array<string|number>|string): boolean {
    return this.control ? this.control.hasError(errorCode, path) : false;
    }
    /\n /**
    * @description
    * Reports error data for the control with the given path.
    * @param errorCode The code of the error to check
    * @param path A list of control names that designates how to move from the current control to the control that should be queried for errors.
    * @usageNotes
    * For example, for the following `FormGroup`:\n * ``\n * form = new FormGroup({\n * address: new FormGroup({ street: new FormControl() })\n * });\n * ``\n * 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
  
```



```
'ngClassPristine',\n '[class.ng-dirty]': 'ngClassDirty',\n '[class.ng-valid]': 'ngClassValid',\n '[class.ng-invalid]':
'ngClassInvalid',\n '[class.ng-pending]': 'ngClassPending',\n});\n\n/**\n * @description\n * Directive automatically
applied to Angular form controls that sets CSS classes\n * based on control status.\n *\n * @usageNotes\n *\n * ###
CSS classes applied\n *\n * The following classes are applied as the properties become true:\n *\n * * ng-valid\n * *
ng-invalid\n * * ng-pending\n * * ng-pristine\n * * ng-dirty\n
* * ng-untouched\n * * ng-touched\n *\n * @ngModule ReactiveFormsModule\n * @ngModule FormsModule\n *
@publicApi\n *\n * @Directive({ selector: '[formControlName],[ngModel],[formControl]', host:
ngControlStatusHost}))\n\nexport class NgControlStatus extends AbstractControlStatus {\n  constructor(@Self() cd:
NgControl) { super(cd); }\n}\n\n/**\n * @description\n * Directive automatically applied to Angular form groups
that sets CSS classes\n * based on control status (valid/invalid/dirty/etc).\n *\n * @see `NgControlStatus`\n *\n *
@ngModule ReactiveFormsModule\n * @ngModule FormsModule\n * @publicApi\n *\n * @Directive({\n
selector:\n
'[formGroupName],[formArrayName],[ngModelGroup],[formGroup],form:not([ngNoForm]),[ngForm]',\n host:
ngControlStatusHost\n}))\n\nexport class NgControlStatusGroup extends AbstractControlStatus {\n
  constructor(@Self() cd: ControlContainer) { super(cd); }\n}\n\n"/**\n * @license\n * Copyright Google Inc. All
Rights Reserved.\n *\n * Use of this source
code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n
*\n *\n * @import { InjectionToken, ÉuisObservable as isObservable, ÉuisPromise as isPromise } from
'@angular/core';\n * @import { Observable, forkJoin, from } from 'rxjs';\n * @import { map } from 'rxjs/operators';\n *
@import { AsyncValidatorFn, ValidationErrors, Validator, ValidatorFn } from './directives/validators';\n *
@import { AbstractControl, FormControl } from './model';\n * @function isEmptyInputValue(value: any): boolean {\n // we
don't check for string here so it also works with arrays\n return value == null || value.length === 0;\n}\n\n/**\n *
@description\n * An `InjectionToken` for registering additional synchronous validators used with
`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:
[{\n *     provide: NG_VALIDATORS,\n *     useExisting: CustomValidatorDirective,\n *     multi: true\n *   }]\n * })\n * class
CustomValidatorDirective implements Validator {\n *   validate(control: AbstractControl): ValidationErrors | null
{\n *     return { 'custom': true };}\n * }\n * ```\n *\n * @publicApi\n *\n * @next export const NG_VALIDATORS =
new InjectionToken<Array<Validator|Function>>('NgValidators');\n\n/**\n * @description\n * An
`InjectionToken` for registering additional asynchronous validators used with `AbstractControl`s.\n *\n * @see
`NG_ASYNC_VALIDATORS`\n *\n * @publicApi\n *\n * @next export const NG_ASYNC_VALIDATORS =\n new
InjectionToken<Array<Validator|Function>>('NgAsyncValidators');\n\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 *\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 *\nconst
EMAIL_REGEXP =\n  /^(?=.{1,254}$)(?=.{1,64}@)[a-zA-Z0-9!#$%&'*/+/?^_`{}~-]+(?:\\.[a-zA-Z0-
9!#$%&'*/+/?^_`{}~-]+)*@[a-zA-Z0-9](?:[a-zA-Z0-9-]{0,61}[a-zA-Z0-9])?(?:\\.([a-zA-Z0-9-
]{0,61}[a-zA-Z0-9])?)*$;\n\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 */\nexport class Validators {\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  static min(min:
number): ValidatorFn {\n    return (control: AbstractControl): ValidationErrors | null => {\n      if
(isEmptyInputValue(control.value) || isEmptyInputValue(min)) {\n        return null; // don't validate empty values to
allow optional controls\n      }\n      const 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:
15, actual: 16}}\n   * ```\n   *\n   * @returns A validator function that returns an error map with the\n   * `max`
property if the validation check fails, otherwise `null`.\n   *\n   * @see `updateValueAndValidity()`\n   *\n   */\n  static max(max: number): ValidatorFn
{\n    return (control: AbstractControl): ValidationErrors | null => {\n      if (isEmptyInputValue(control.value) ||
isEmptyInputValue(max)) {\n        return null; // don't validate empty values to allow optional controls\n      }\n
      const value = parseFloat(control.value);\n      // Controls with NaN values after parsing should be treated as not
having a\n      // maximum, per the HTML forms spec: https://www.w3.org/TR/html5/forms.html#attr-input-max\n      return !isNaN(value) && value > max ? {'max': {max: max, 'actual': control.value}} : null;\n    };\n  }\n  /**\n   * @description\n   * Validator that requires the control have a non-empty value.\n   *\n   * @usageNotes\n   *\n   * ### Validate that the field is non-empty\n   *\n   * ```typescript\n   * const control = new FormControl("",
Validators.required);\n   *\n   * console.log(control.errors); // {required: true}\n   * ```\n   *\n   * @returns An error
map with the `required` property\n   * if the validation
check fails, otherwise `null`.\n   *\n   * @see `updateValueAndValidity()`\n   *\n   */\n  static required(control:
AbstractControl): ValidationErrors|null {\n    return isEmptyInputValue(control.value) ? {'required': true} : null;\n  }\n  /**\n   * @description\n   * Validator that requires the control's value be true. This validator is commonly\n   * used for required checkboxes.\n   *\n   * @usageNotes\n   *\n   * ### Validate that the field value is true\n   *\n   * ```typescript\n   * const control = new FormControl("", Validators.requiredTrue);\n   *\n   * console.log(control.errors); // {required: true}\n   * ```\n   *\n   * @returns An error map that contains the `required`
property\n   * set to `true` if the validation check fails, otherwise `null`.\n   *\n   * @see
`updateValueAndValidity()`\n   *\n   */\n  static requiredTrue(control: AbstractControl): ValidationErrors|null {\n
return control.value === true ? null : {'required': true};\n  }\n  /**\n   * @description\n   * Validator that requires the control's value pass an email validation test.\n   *\n   * Tests the value using a [regular
expression](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide/Regular_Expressions)\n   * pattern
suitable for common usecases. The pattern is based on the definition of a valid email\n   * address in the
[WHATWG HTML specification](https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address)\n   *

```

with some enhancements to incorporate more RFC rules (such as rules related to domain names and the lengths of different parts of the address).

The differences from the WHATWG version include:

- Disallow `local-part` (the part before the `@` symbol) to begin or end with a period (`.`).
- Disallow `local-part` to be longer than 64 characters.
- Disallow the whole address to be longer than 254 characters.

If this pattern does not satisfy your business needs, you can use `Validators.pattern()` to validate the value against a different pattern.

```

@usageNotes
### Validate that the field matches a valid email pattern
typescript
const control = new FormControl('bad@', Validators.email);
console.log(control.errors); // {email: true}
returns An error map with the `email` property if the validation check fails, otherwise `null`.
see `updateValueAndValidity()`
static email(control: AbstractControl): ValidationErrors | null {
  if (isEmptyInputValue(control.value)) {
    return null; // don't validate empty values to allow optional controls
  }
  return EMAIL_REGEXP.test(control.value) ? null : { 'email': true };
}
description
Validator that requires the length of the control's value to be greater than or equal to the provided minimum length. This validator is also provided by default if you use the `HTML5` `minlength` attribute.
@usageNotes
### Validate that the field has a minimum of 3 characters
typescript
const control = new FormControl('ng', Validators.minLength(3));
console.log(control.errors); // {minlength: {requiredLength: 3, actualLength: 2}}
html
<input minlength="5">
returns A validator function that returns an error map with the `minlength` if the validation check fails, otherwise `null`.
see `updateValueAndValidity()`
static minLength(minLength: number): ValidatorFn {
  return (control: AbstractControl): ValidationErrors | null => {
    if (isEmptyInputValue(control.value)) {
      return null; // don't validate empty values to allow optional controls
    }
    const length: number = control.value ? control.value.length : 0;
    return length < minLength ? { 'minlength': { 'requiredLength': minLength, 'actualLength': length } } : null;
  };
}
description
Validator that requires the length of the control's value to be less than or equal to the provided maximum length. This validator is also provided by default if you use the `HTML5` `maxlength` attribute.
@usageNotes
### Validate that the field has maximum of 5 characters
typescript
const control = new FormControl('Angular', Validators.maxLength(5));
console.log(control.errors); // {maxlength: {requiredLength: 5, actualLength: 7}}
html
<input maxlength="5">
returns A validator function that returns an error map with the `maxlength` property if the validation check fails, otherwise `null`.
see `updateValueAndValidity()`
static maxLength(maxLength: number): ValidatorFn {
  return (control: AbstractControl): ValidationErrors | null => {
    const length: number = control.value ? control.value.length : 0;
    return length > maxLength ? { 'maxlength': { 'requiredLength': maxLength, 'actualLength': length } } : null;
  };
}
description
Validator that requires the control's value to match a regex pattern. This validator is also provided by default if you use the `HTML5` `pattern` attribute.
@usageNotes
### Validate that the field only contains letters or spaces
typescript
const control = new FormControl('1', Validators.pattern('[a-zA-Z ]*'));
console.log(control.errors); // {pattern: {requiredPattern: '^[a-zA-Z ]*$', actualValue: '1'}}
html
<input pattern="[a-zA-Z ]*">
param pattern A regular expression to be used as is to test the values, or a string. If a string is passed, the `^` character is prepended and the `$` character is appended to the provided string (if not already present), and the resulting regular expression is used to test the values.
returns A validator function that returns an error map with the `pattern` property if the validation check fails, otherwise `null`.
see `updateValueAndValidity()`
static pattern(pattern: string | RegExp): ValidatorFn {
  if (!pattern) return Validators.nullValidator;
  let regex: RegExp;
  let regexStr: string;
  if (typeof pattern === 'string') {
    regexStr = pattern;
    if (pattern.charAt(0) !== '^') regexStr += '^';
    regexStr += '$';
    if (pattern.charAt(pattern.length - 1) !== '$') regexStr += '$';
    regex = new RegExp(regexStr);
  } else {
    regexStr = pattern.toString();
    regex = pattern;
  }
  return (control: AbstractControl):

```

```

ValidationErrors | null => {\n  if (isEmptyInputValue(control.value)) {\n    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\n  {\n    'pattern':\n    {'requiredPattern': regexStr, 'actualValue': value}};\n  };\n}\n\n/**\n * @description\n * Validator that
performs no operation.\n * @see `updateValueAndValidity()`\n * ^\n * static nullValidator(control:\nAbstractControl): 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 * @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 * @see `updateValueAndValidity()`\n * ^\n * static\ncompose(validators: null): null;\n static compose(validators: (ValidatorFn|null|undefined)[]): ValidatorFn|null;\n static compose(validators: (ValidatorFn|null|undefined)[]|null):\nValidatorFn|null {\n  if (!validators) return null;\n  const presentValidators: ValidatorFn[] =\nvalidators.filter(isPresent) as any;\n  if (presentValidators.length === 0) return null;\n  return function(control:\nAbstractControl) {\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 * @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 * @see `updateValueAndValidity()`\n * ^\n * static composeAsync(validators: (AsyncValidatorFn|null)[]):\nAsyncValidatorFn|null {\n  if (!validators) return null;\n  const presentValidators: AsyncValidatorFn[] =\nvalidators.filter(isPresent) as any;\n  if (presentValidators.length\n=== 0) return null;\n  return function(control: AbstractControl) {\n    const observables =\n_executeAsyncValidators(control, presentValidators).map(toObservable);\n    return\nforkJoin(observables).pipe(map(_mergeErrors));\n  };\n}\n\nfunction isPresent(o: any): boolean {\n  return o\n!= 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\nvalidators.map(v => v(control));\n}\n\nfunction _executeAsyncValidators(control: AbstractControl, validators:\nAsyncValidatorFn[]): any[] {\n  return validators.map(v => v(control));\n}\n\nfunction _mergeErrors(arrayOfErrors:\nValidationErrors[]): ValidationErrors|null {\n  let res: {[key: string]: any} = {};\n  // Not using Array.reduce here\ndue to\n  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  return Object.keys(res).length === 0 ? null : res;\n}\n\n",/**\n * @license\n * Copyright Google Inc. All\nRights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the\nLICENSE file at https://angular.io/license\n */\n\nimport {AbstractControl} from './model';\nimport\n{AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from './validators';\n\nexport function\nnormalizeValidator(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):\nAsyncValidatorFn {\n  if ((<AsyncValidator>validator).validate)\n{\n    return (c: AbstractControl) => (<AsyncValidator>validator).validate(c);\n  } else {\n    return\n<AsyncValidatorFn>validator;\n  }\n}\n\n",/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at\nhttps://angular.io/license\n */\n\nimport {Directive, ElementRef, Renderer2, forwardRef} from\n'@angular/core';\nimport {ControlValueAccessor, NG_VALUE_ACCESSOR} from\n'./control_value_accessor';\n\nexport const NUMBER_VALUE_ACCESSOR: any = {\n  provide:\nNG_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` directives.
* @usageNotes
### Using a number input with a reactive form.
The following example shows how to use a number input with a reactive form.
const totalCountControl = new FormControl();
@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 {
  /**
   * The registered callback function called when a change or input event occurs on the input element.
   * @param fn The callback function called when a blur event occurs on the input element.
   * @param fn The callback function called when the control value changes.
   * @param fn The callback function called when the control is touched.
   * @param fn The callback function called when the control is disabled.
   * @license
   Copyright Google Inc. All Rights Reserved.
   Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license
import {Directive, ElementRef, 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
* Class used by Angular to track radio buttons. For internal use only.
@Injectable()
export class RadioControlRegistry {
  private _accessors: any[] = [];
  /**
   * Adds a control to the internal registry. For internal use only.
   * @param control NgControl, accessor: RadioControlValueAccessor
   */
  add(control: NgControl, accessor: RadioControlValueAccessor) {
    this._accessors.push([control, accessor]);
  }
  /**
   * Removes a control from the internal registry. For internal use only.
   * @param accessor RadioControlValueAccessor
   */
  remove(accessor: RadioControlValueAccessor) {
    for (let i = this._accessors.length - 1; i >= 0; --i) {
      if (this._accessors[i][1] === accessor) {
        this._accessors.splice(i, 1);
        return;
      }
    }
  }
  /**
   * Selects a radio button. For internal use only.
   * @param accessor RadioControlValueAccessor
   */
  select(accessor: RadioControlValueAccessor) {
    this._accessors.forEach((c) => {
      if (this._isSameGroup(c, accessor) && c[1] !== accessor) {
        c[1].fireUncheck(accessor.value);
      }
    });
  }
  private _isSameGroup(
    controlPair: [NgControl, RadioControlValueAccessor],
    accessor: RadioControlValueAccessor): boolean {
    if (!controlPair[0].control) return false;
    return controlPair[0]._parent === accessor._control._parent && controlPair[1].name === accessor.name;
  }
}
* @description
* The `ControlValueAccessor` for writing radio control values and listening to radio control changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel` directives.
* @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

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optional.\n * \n * { @example forms/ts/reactiveRadioButtons/reactive_radio_button_example.ts region='Reactive'}\n
*\n * @ngModule ReactiveFormsModule\n
* @ngModule FormsModule\n * @publicApi\n * \n @Directive({\n selector:\n
'input[type=radio][formControlName],input[type=radio][formControl],input[type=radio][ngModel]',\n host:\n
{'(change)': 'onChange()', '(blur)': 'onTouched()' },\n providers: [RADIO_VALUE_ACCESSOR])\n }\n\nexport class\nRadioControlValueAccessor implements ControlValueAccessor,\n OnDestroy, OnInit {\n /** @internal */\n // TODO(issue/24571): remove '!.\n _state !: boolean;\n /** @internal */\n // TODO(issue/24571): remove '!.\n _control !: NgControl;\n /** @internal */\n // TODO(issue/24571): remove '!.\n _fn !: Function;\n\n /**\n * @description\n * The registered callback function called when a change event occurs on the input element.\n */\n onChange = () => {};\n\n /**\n * @description\n * The registered callback function called when a blur event\n occurs on the input element.\n */\n onTouched = () => {};\n\n /**\n * @description\n * Tracks the name of the\n radio input element.\n */\n // TODO(issue/24571): remove '!.\n @Input() name !: string;\n\n /**\n * @description\n * Tracks the\n name of the `FormControl` bound to the directive. The name corresponds\n * to a key in the parent `FormGroup`\n or `FormArray`.\n */\n // TODO(issue/24571): remove '!.\n @Input() formControlName !: string;\n\n /**\n * @description\n * Tracks the value of the radio input element\n */\n @Input() value: any;\n\n constructor(\n private _renderer: Renderer2, private _elementRef: ElementRef,\n private _registry: RadioControlRegistry,\n private _injector: Injector) {\n\n /**\n * @description\n * A lifecycle method called when the directive is\n initialized. For internal use only.\n */\n ngOnInit(): void {\n this._control = this._injector.get(NgControl);\n this._checkName();\n this._registry.add(this._control, this);\n }\n\n /**\n * @description\n * Lifecycle method\n called before the directive's instance is destroyed. For internal\n use only.\n */\n ngOnDestroy(): void {\n this._registry.remove(this);\n }\n\n /**\n * @description\n * Sets the\n `"checked"` property value on the radio input element.\n */\n * @param value The checked value\n */\n writeValue(value: any): void {\n this._state = value === this.value;\n\n this._renderer.setProperty(this._elementRef.nativeElement, 'checked', this._state);\n }\n\n /**\n * @description\n * Registers a function called when the control value changes.\n */\n * @param fn The callback function\n */\n ngOnChange(fn: (.: any) => {}): void {\n this._fn = fn;\n this.onChange = () => {\n fn(this.value);\n\n this._registry.select(this);\n };\n }\n\n /**\n * Sets the `"value"` on the radio input element and unchecks it.\n */\n * @param value\n */\n fireUncheck(value: any): void {\n this.writeValue(value);\n }\n\n /**\n * @description\n * Registers a function called when the control is touched.\n */\n * @param fn The callback\n function\n */\n registerOnTouched(fn: () => {}): void {\n this.onTouched = fn;\n }\n\n /**\n * Sets the `"disabled"`\n property on the input element.\n */\n * @param isDisabled The disabled value\n */\n setDisabledState(isDisabled: boolean): void {\n this._renderer.setProperty(this._elementRef.nativeElement,\n 'disabled', isDisabled);\n }\n\n private _checkName(): void {\n if (this.name && this.formControlName &&\n this.name !== this.formControlName) {\n this._throwNameError();\n }\n if (!this.name &&\n this.formControlName) this.name = this.formControlName;\n }\n\n private _throwNameError(): void {\n throw\n new Error(`\n If you define both a name and a formControlName attribute on your radio button, their values\n must match. Ex: <input type="radio" formControlName="food" name="food">\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-\n style license that can\n be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport {Directive, ElementRef, Renderer2,\n StaticProvider, forwardRef} from '@angular/core';\nimport {ControlValueAccessor, NG_VALUE_ACCESSOR}\n from './control_value_accessor';\n\nexport const RANGE_VALUE_ACCESSOR: StaticProvider = {\n provide:\n NG_VALUE_ACCESSOR,\n useExisting: forwardRef(() => RangeValueAccessor),\n multi: true\n};\n\n /**\n * @description\n * The `ControlValueAccessor` for writing a range value and listening to range input changes.\n */\n The value accessor is used by the `FormControlDirective`, `FormControlName`, and `NgModel`\n directives.\n\n * @usageNotes\n */\n * ### Using a range input with a reactive form\n */\n * The following example shows how\n to use a range input with a reactive form.\n */\n * ````ts\n * const ageControl = new FormControl();\n * ````\n */

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`n * <input type="range" [formControl]="ageControl">n * `n * @ngModule ReactiveFormsModule\n *
@ngModule FormsModule\n
* @publicApi\n * ^n @Directive({\n selector:\n
'input[type=range][formControlName],input[type=range][formControl],input[type=range][ngModel]',\n host: {\n
(change): 'onChange($event.target.value)',\n (input): 'onChange($event.target.value)',\n (blur):
'onTouched()\n },\n providers: [RANGE_VALUE_ACCESSOR]\n})\nexport class RangeValueAccessor
implements ControlValueAccessor {\n /**\n * @description\n * The registered callback function called when a
change or input event occurs on the input\n * element.\n * ^n onChange = (_: any) => {};\n /**\n *
@description\n * The registered callback function called when a blur event occurs on the input element.\n * ^n
onTouched = () => {};\n constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {\n
/**\n * Sets the "value" property on the input element.\n * ^n * @param value The checked value\n * ^n
writeValue(value: any): void {\n this._renderer.setProperty(this._elementRef.nativeElement,
'value', parseFloat(value));\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: (_: number|null) => void): void
{\n this.onChange = (value) => { fn(value == " ? null : parseFloat(value)); }; }\n /**\n * @description\n *
Registers a function called when the control is touched.\n * ^n * @param fn The callback function\n * ^n
registerOnTouched(fn: () => void): void { this.onTouched = fn; }\n /**\n * Sets the "disabled" property on the
range 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 /**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * ^n * Use of this source code is
governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n * ^n\nexport const FormErrorExamples = {\n formControlName: `n
<div [formGroup]="myGroup">\n <input formControlName="firstName">\n </div>\n In your class:\n
this.myGroup = new FormGroup({\n firstName: new FormControl()\n });\n\n formGroupName: `n <div
[formGroup]="myGroup">\n <div formGroupName="person">\n <input
formControlName="firstName">\n </div>\n </div>\n In your class:\n\n this.myGroup = new
FormGroup({\n person: new FormGroup({ firstName: new FormControl() })\n });\n\n formArrayName: `n
<div [formGroup]="myGroup">\n <div formArrayName="cities">\n <div *ngFor="let city of
cityArray.controls; index as i">\n <input [formControlName]="i">\n </div>\n </div>\n </div>\n
In your class:\n\n this.cityArray = new FormArray([new FormControl('SF')]);\n this.myGroup = new
FormGroup({\n cities:
this.cityArray\n });\n\n ngModelGroup: `n <form>\n <div ngModelGroup="person">\n <input
[(ngModel)]="person.name" name="firstName">\n </div>\n </form>\n\n ngModelWithFormGroup: `n
<div [formGroup]="myGroup">\n <input formControlName="firstName">\n <input
[(ngModel)]="showMoreControls" [ngModelOptions]="{standalone: true}">\n </div>\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
{FormErrorExamples as Examples} from './error_examples';\n\nexport class ReactiveErrors {\n static
controlParentException(): void {\n throw new Error(`n `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).\n\n
Example:\n\n ${Examples.formControlName}`);\n }\n\n static ngModelGroupException(): void {\n throw
new Error(`n `formControlName cannot be used with an ngModelGroup parent. It is only compatible with
parents\n that also have a "form" prefix: formGroupName, formArrayName, or FormGroup.\n\n
Option 1:
Update the parent to be formGroupName (reactive form strategy)\n\n ${Examples.formGroupName}\n\n
Option 2: Use ngModel instead of formControlName (template-driven strategy)\n\n
${Examples.ngModelGroup}`);\n }\n\n static missingFormException(): void {\n throw new Error(`n
formGroup expects a FormGroup instance. Please pass one in.\n\n
Example:\n\n ${Examples.formControlName}`);\n }

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@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 * @description\n * The registered callback
function called when a change event occurs on the input element.\n *^\n onChange = (_: any) => {};\n /**\n *
@description\n * The registered callback function called when a blur event occurs on the input element.\n *^\n
onTouched = () => {};\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 private _compareWith: (o1: any, o2: any) =>
boolean
= looseIdentical;\n\n constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {\n /**\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 *^\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 * @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 * @description\n * Registers a function called when the control is touched.\n *^\n * @param
fn The callback function\n *^\n registerOnTouched(fn: () => any): void {\n 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 /** @internal *^\n _registerOption(): string {\n return (this._idCounter++).toString();
}\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 /** @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 * @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'})\n})\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 * @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 *
@description\n * Tracks simple string values bound to the option element.\n * For objects, use the
`ngValue` input binding.\n *^\n @Input('value')\n set value(value: any) {\n this._setElementValue(value);\n if
(this._select) this._select.writeValue(this._select.value);\n }\n /** @internal *^\n _setElementValue(value:
string): void {\n this._renderer.setProperty(this._element.nativeElement, 'value', value);\n }\n /**\n *
@description\n * Lifecycle method called before the directive's instance is destroyed. For internal use only.\n *^\n
ngOnDestroy(): void {\n if (this._select) {\n this._select._optionMap.delete(this.id);\n
this._select.writeValue(this._select.value);\n }\n }\n }\n }\", /**\n * @license\n * Copyright Google Inc. All Rights

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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_MULTIPLE_VALUE_ACCESSOR: StaticProvider = {\n
provide: NG_VALUE_ACCESSOR,\n useExisting: forwardRef(() => SelectMultipleControlValueAccessor),\n
multi: true\n};\n\nfunction _buildValueString(id: string, value: any): string {\n if (id == null) return `${value}`;\n if
(typeof value === 'string') value = `${value}`;\n if (value && typeof value === 'object') value = 'Object';\n return
`${id}: ${value}`.slice(0, 50);\n}\n\nfunction _extractId(valueString: string): string {\n return
valueString.split(':')[0];\n}\n\n/** Mock interface for HTML Options *\ninterface HTMLOption {\n value:
string;\n selected: boolean;\n}\n\n/** Mock interface
for HTMLCollection *\nabstract class HTMLCollection {\n // TODO(issue/24571): remove '!.\n length !:
number;\n abstract item(_: number): HTMLOption;\n}\n\n/**\n * @description\n * The `ControlValueAccessor`
for writing multi-select control values and listening to multi-select control\n * changes. The value accessor is used
by the `FormControlDirective`, `FormControlName`, and `NgModel`\n * directives.\n * \n * @see
`SelectControlValueAccessor`\n * \n * @usageNotes\n * \n * ### Using a multi-select control\n * \n * The follow
example shows you how to use a multi-select control with a reactive form.\n * \n * ``ts\n * const countryControl =
new FormControl();\n * ``\n * \n * ``\n * <select multiple name="countries" [formControl]="countryControl">\n
* <option *ngFor="let country of countries" [ngValue]="country">\n * {{ country.name }}\n * </option>\n
* </select>\n * ``\n * \n * ### Customizing option selection\n * \n * To customize the default option comparison
algorithm, `<select>` supports `compareWith` input.\n * See the `SelectControlValueAccessor` for usage.\n * \n *
@ngModule ReactiveFormsModule\n * @ngModule FormsModule\n * @publicApi\n */\n@Directive({\n
selector: '\n select[multiple][formControlName],select[multiple][formControl],select[multiple][ngModel]',\n
host: {'(change)': 'onChange($event.target)', '(blur)': 'onTouched()'},\n providers:
[SELECT_MULTIPLE_VALUE_ACCESSOR]\n})\nexport class SelectMultipleControlValueAccessor implements
ControlValueAccessor {\n /**\n * @description\n * The current value\n * \n value: any;\n\n /** @internal *\n
_optionMap: Map<string, ÉµNgSelectMultipleOption> = new Map<string, ÉµNgSelectMultipleOption>();\n /**
@internal *\n _idCounter: number = 0;\n\n /**\n * @description\n * The registered callback function called
when a change event occurs on the input element.\n * \n onChange = (_: any) => {};\n\n /**\n * @description\n
* The registered callback function called when
a blur event occurs on the input element.\n * \n onTouched = () => {};\n\n /**\n * @description\n * Tracks the
option comparison algorithm for tracking identities when\n * checking for changes.\n * \n @Input()\n set
compareWith(fn: (o1: any, o2: any) => boolean) {\n if (typeof fn !== 'function') {\n throw new
Error(`compareWith must be a function, but received ${JSON.stringify(fn)}`);\n } \n this._compareWith = fn;\n
}\n\n private _compareWith: (o1: any, o2: any) => boolean = looseIdentical;\n\n constructor(private _renderer:
Renderer2, private _elementRef: ElementRef) {\n\n /**\n * @description\n * Sets the `value` property on one
or of more\n * of the select's options.\n * \n * @param value The value\n * \n writeValue(value: any): void {\n
this.value = value;\n let optionSelectedStateSetter: (opt: ÉµNgSelectMultipleOption, o: any) => void;\n if
(Array.isArray(value)) {\n // convert values to ids\n const ids = value.map(v)\n => this._getOptionId(v);\n optionSelectedStateSetter = (opt, o) => { opt._setSelected(ids.indexOf(o.toString()\n
> -1); }; \n } else {\n optionSelectedStateSetter = (opt, o) => { opt._setSelected(false); }; \n } \n
this._optionMap.forEach(optionSelectedStateSetter);\n } \n\n /**\n * @description\n * Registers a function
called when the control value changes\n * and writes an array of the selected options.\n * \n * @param fn The
callback function\n * \n registerOnChange(fn: (value: any) => any): void {\n this.onChange = (_: any) => {\n
const selected: Array<any> = [];\n if (_.hasOwnProperty('selectedOptions')) {\n const options:
HTMLCollection = _selectedOptions;\n for (let i = 0; i < options.length; i++) {\n const opt: any =
options.item(i);\n const val: any = this._getOptionValue(opt.value);\n selected.push(val);\n } \n
}\n // Degrade on IE\n else {\n const options:

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HTMLCollection = <HTMLCollection>_options;\n    for (let i = 0; i < options.length; i++) {\n        const opt:
HTMLOption = options.item(i);\n        if (opt.selected) {\n            const val: any =
this._getOptionValue(opt.value);\n            selected.push(val);\n        }\n    }\n    this.value = selected;\n
fn(selected);\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(value: ÉµNgSelectMultipleOption): string {\n    const id: string = (this._idCounter++).toString();\n
this._optionMap.set(id, value);\n    return id;\n }\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,
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) !._value :
valueString;\n }\n }\n\n /**\n * @description\n * Marks <option> as dynamic, so Angular can be notified when
options change.\n * \n * @see `SelectMultipleControlValueAccessor`\n * \n * @ngModule ReactiveFormsModule\n
* @ngModule FormsModule\n * @publicApi\n */\n @Directive({selector: 'option'})\n export class
ÉµNgSelectMultipleOption implements OnDestroy {\n // TODO(issue/24571): remove '!'.\n id!: string;\n /**
@internal */\n _value: any;\n\n constructor(\n    private _element: ElementRef, private _renderer:
Renderer2,\n    @Optional() @Host() private _select: SelectMultipleControlValueAccessor) {\n    if (this._select)
{\n        this.id = this._select._registerOption(this);\n    }\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
*/\n @Input('ngValue')\n set ngValue(value: any) {\n    if (this._select == null) return;\n    this._value = 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 */\n @Input('value')\n set value(value: any) {\n    if (this._select) {\n        this._value =
value;\n        this._setElementValue(_buildValueString(this.id, value));\n    }\n\n    this._select.writeValue(this._select.value);\n } else {\n    this._setElementValue(value);\n }\n }\n\n /** @internal */\n _setElementValue(value: string): void {\n
this._renderer.setProperty(this._element.nativeElement, 'value', value);\n }\n\n /** @internal */\n
_setSelected(selected: boolean) {\n    this._renderer.setProperty(this._element.nativeElement, 'selected', selected);\n
}\n\n /**\n * @description\n * Lifecycle method called before the directive's instance is destroyed. For internal
use only.\n * \n */\n ngOnDestroy(): void {\n    if (this._select) {\n        this._select._optionMap.delete(this.id);\n
this._select.writeValue(this._select.value);\n    }\n }\n }\n\n export {ÉµNgSelectMultipleOption as
NgSelectMultipleOption};\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 import {isDevMode, ÉµlooseIdentical as looseIdentical} from
'@angular/core';\n\n import {FormArray, FormControl, FormGroup}
from './model';\n\n import {Validators} from './validators';\n\n import {AbstractControlDirective} from
'./abstract_control_directive';\n\n import {AbstractFormGroupDirective} from
'./abstract_form_group_directive';\n\n import {CheckboxControlValueAccessor} from
'./checkbox_value_accessor';\n\n import {ControlContainer} from './control_container';\n\n import
{ControlValueAccessor} from './control_value_accessor';\n\n import {DefaultValueAccessor} from
'./default_value_accessor';\n\n import {NgControl} from './ng_control';\n\n import {normalizeAsyncValidator,
normalizeValidator} from './normalize_validator';\n\n import {NumberValueAccessor} from
'./number_value_accessor';\n\n import {RadioControlValueAccessor} from './radio_control_value_accessor';\n\n import
{RangeValueAccessor} from './range_value_accessor';\n\n import {FormArrayName} from
'./reactive_directives/form_group_name';\n\n import {ReactiveErrors} from './reactive_errors';\n\n import
{SelectControlValueAccessor} from './select_control_value_accessor';\n\n import

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{SelectMultipleControlValueAccessor}
from './select_multiple_control_value_accessor';\nimport { AsyncValidator, AsyncValidatorFn, Validator,
ValidatorFn } from './validators';\n\n\nexport function controlPath(name: string | null, parent: ControlContainer):
string[] {\n return [...parent.path !, name !];\n}\n\n\nexport function setUpControl(control: FormControl, dir:
NgControl): void {\n if (!control) _throwError(dir, 'Cannot find control with');\n if (!dir.valueAccessor)
_throwError(dir, 'No value accessor for form control with');\n\n control.validator =
Validators.compose([control.validator !, dir.validator]);\n control.asyncValidator =
Validators.composeAsync([control.asyncValidator !, dir.asyncValidator]);\n dir.valueAccessor
!.writeValue(control.value);\n\n setUpViewChangePipeline(control, dir);\n setUpModelChangePipeline(control,
dir);\n\n setUpBlurPipeline(control, dir);\n\n if (dir.valueAccessor !.setDisabledState) {\n
control.registerOnDisabledChange(\n    (isDisabled: boolean)
=> { dir.valueAccessor !.setDisabledState !(isDisabled); });\n }\n\n // re-run validation when validator binding
changes, e.g. minlength=3 -> minlength=4\n dir._rawValidators.forEach((validator: Validator | ValidatorFn) => {\n
if ((<Validator>validator).registerOnValidatorChange)\n (<Validator>validator).registerOnValidatorChange !(()
=> control.updateValueAndValidity());\n });\n\n dir._rawAsyncValidators.forEach((validator: AsyncValidator |
AsyncValidatorFn) => {\n if ((<Validator>validator).registerOnValidatorChange)\n (<Validator>validator).registerOnValidatorChange !(() => control.updateValueAndValidity());\n });\n}\n\n\nexport
function cleanUpControl(control: FormControl, dir: NgControl) {\n dir.valueAccessor !.registerOnChange(() =>
_noControlError(dir));\n dir.valueAccessor !.registerOnTouched(() => _noControlError(dir));\n\n dir._rawValidators.forEach((validator: any) => {\n if (validator.registerOnValidatorChange) {\n
validator.registerOnValidatorChange(null);\n }\n });\n\n dir._rawAsyncValidators.forEach((validator: any) => {\n if (validator.registerOnValidatorChange)
{\n validator.registerOnValidatorChange(null);\n }\n });\n\n if (control)
control._clearChangeFns();\n}\n\n\nfunction setUpViewChangePipeline(control: FormControl, dir: NgControl): void
{\n dir.valueAccessor !.registerOnChange((newValue: any) => {\n control._pendingValue = newValue;\n
control._pendingChange = true;\n control._pendingDirty = true;\n if (control.updateOn === 'change')
updateControl(control, dir);\n });\n}\n\n\nfunction setUpBlurPipeline(control: FormControl, dir: NgControl): void {\n
dir.valueAccessor !.registerOnTouched(() => {\n control._pendingTouched = true;\n\n if (control.updateOn ===
'blur' && control._pendingChange) updateControl(control, dir);\n if (control.updateOn !== 'submit')
control.markAsTouched();\n });\n}\n\n\nfunction updateControl(control: FormControl, dir: NgControl): void {\n if
(control._pendingDirty)
control.markAsDirty();\n control.setValue(control._pendingValue, { emitModelToViewChange: false });\n\n
dir.viewToModelUpdate(control._pendingValue);\n control._pendingChange = false;\n}\n\n\nfunction
setUpModelChangePipeline(control: FormControl, dir: NgControl): void {\n control.registerOnChange((newValue:
any, emitModelEvent: boolean) => {\n // control -> view\n dir.valueAccessor !.writeValue(newValue);\n\n //
control -> ngModel\n if (emitModelEvent) dir.viewToModelUpdate(newValue);\n });\n}\n\n\nexport function
setUpFormContainer(\n control: FormGroup | FormArray, dir: AbstractFormGroupDirective | FormArrayName)
{\n if (control == null) _throwError(dir, 'Cannot find control with');\n control.validator =
Validators.compose([control.validator, dir.validator]);\n control.asyncValidator =
Validators.composeAsync([control.asyncValidator, dir.asyncValidator]);\n}\n\n\nfunction _noControlError(dir:
NgControl) {\n return _throwError(dir, 'There is no FormControl
instance attached to form control element with');\n}\n\n\nfunction _throwError(dir: AbstractControlDirective,
message: string): void {\n let messageEnd: string;\n if (dir.path !.length > 1) {\n messageEnd = `path:
${dir.path!.join(' -> ')}`;\n } else if (dir.path ![0]) {\n messageEnd = `name: ${dir.path}`;\n } else {\n
messageEnd = 'unspecified name attribute';\n }\n throw new Error(`${message} ${messageEnd}`);\n}\n\n\nexport
function composeValidators(validators: Array<Validator|ValidatorFn>): ValidatorFn|null {\n return validators !=
null ? Validators.compose(validators.map(normalizeValidator)) : null;\n}\n\n\nexport function
composeAsyncValidators(validators: Array<AsyncValidator|AsyncValidatorFn>): AsyncValidatorFn|null {\n

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return validators != null ? Validators.composeAsync(validators.map(normalizeAsyncValidator)) :\n
null;\n}\n\nexport function isPropertyUpdated(changes: {[key: string]: any}, viewModel: any): boolean {\n
  if (!changes.hasOwnProperty('model')) return false;\n  const change = changes['model'];\n  if\n
(change.isFirstChange()) return true;\n  return !looseIdentical(viewModel, change.currentValue);\n}\n\nconst\n
BUILTIN_ACCESSORS = [\n  CheckboxControlValueAccessor,\n  RangeValueAccessor,\n\n
NumberValueAccessor,\n  SelectControlValueAccessor,\n  SelectMultipleControlValueAccessor,\n\n
RadioControlValueAccessor,\n];\n\nexport function isBuiltInAccessor(valueAccessor: ControlValueAccessor):\n
boolean {\n  return BUILTIN_ACCESSORS.some(a => valueAccessor.constructor === a);\n}\n\nexport function\n
syncPendingControls(form: FormGroup, directives: NgControl[]): void {\n  form._syncPendingControls();\n
  directives.forEach(dir => {\n    const control = dir.control as FormControl;\n    if (control.updateOn === 'submit'\n
&& control._pendingChange) {\n      dir.viewToModelUpdate(control._pendingValue);\n\n
control._pendingChange = false;\n    }\n  });\n}\n\n// TODO: vsavkin remove it once\n
https://github.com/angular/angular/issues/3011\n
is implemented\n\nexport function selectValueAccessor(\n  dir: NgControl, valueAccessors:\n
ControlValueAccessor[]): ControlValueAccessor|null {\n  if (!valueAccessors) return null;\n  if\n
(!Array.isArray(valueAccessors))\n    _throwError(dir, 'Value accessor was not provided as an array for form control\n
with');\n  let defaultAccessor: ControlValueAccessor|undefined = undefined;\n  let builtinAccessor:\n
ControlValueAccessor|undefined = undefined;\n  let customAccessor: ControlValueAccessor|undefined =\n
undefined;\n  valueAccessors.forEach((v: ControlValueAccessor) => {\n    if (v.constructor ===\n
DefaultValueAccessor) {\n      defaultAccessor = v;\n    }\n    else if (isBuiltInAccessor(v)) {\n      if\n
(builtinAccessor)\n        _throwError(dir, 'More than one built-in value accessor matches form control with');\n      builtinAccessor = v;\n    }\n    else {\n      if (customAccessor)\n        _throwError(dir, 'More than one custom value\n
accessor matches form control\n
with');\n      customAccessor = v;\n    }\n  });\n  if (customAccessor) return customAccessor;\n  if\n
(builtinAccessor) return builtinAccessor;\n  if (defaultAccessor) return defaultAccessor;\n  _throwError(dir, 'No\n
valid value accessor for form control with');\n  return null;\n}\n\nexport function removeDir<T>(list: T[], el: T):\n
void {\n  const index = list.indexOf(el);\n  if (index > -1) list.splice(index, 1);\n}\n\n// TODO(kara): remove after\n
deprecation period\n\nexport function _ngModelWarning(\n  name: string, type: {_ngModelWarningSentOnce:\n
boolean},\n  instance: {_ngModelWarningSent: boolean}, warningConfig: string | null) {\n  if (!isDevMode() ||\n
warningConfig === 'never') return;\n  if (((warningConfig === null || warningConfig === 'once') &&\n
!type._ngModelWarningSentOnce) ||\n    (warningConfig === 'always' && !instance._ngModelWarningSent)) {\n\n
ReactiveErrors.ngModelWarning(name);\n    type._ngModelWarningSentOnce = true;\n\n
instance._ngModelWarningSent\n
= true;\n  }\n}\n\n", /**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code\n
is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n
*/\n\nimport {EventEmitter} from '@angular/core';\nimport {Observable} from 'rxjs';\nimport\n
{composeAsyncValidators, composeValidators} from './directives/shared';\nimport {AsyncValidatorFn,\n
ValidationErrors, ValidatorFn} from './directives/validators';\n\n/**\n * Reports that a FormControl is valid, meaning that no errors exist in the input value.\n * @see `status`\n *  

*/\nexport const VALID = 'VALID';\n\n/**\n * Reports that a FormControl is invalid, meaning that an error exists\n
in the input value.\n * @see `status`\n *  

*/\nexport const INVALID = 'INVALID';\n\n/**\n * Reports that a\n
FormControl is pending, meaning that that async validation is occurring and\n * errors are not yet available for the\n
input value.\n *  

*/\n * @see `markAsPending`\n * @see `status`\n */\nexport const PENDING = 'PENDING';\n\n/**\n * Reports that a\n
FormControl is disabled, meaning that the control is exempt from ancestor\n * calculations of validity or value.\n
*/\n * @see `markAsDisabled`\n * @see `status`\n */\nexport const DISABLED = 'DISABLED';\n\nfunction\n
_find(control: AbstractControl, path: Array<string|number>| string, delimiter: string) {\n  if (path == null) return\n
null;\n  if (!Array.isArray(path)) {\n    path = path.split(delimiter);\n  }\n  if (Array.isArray(path) && path.length

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=== 0) return null;\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 let controlToFind: AbstractControl|null =
control;\n path.forEach((name: string | number) => {\n   if (controlToFind instanceof FormGroup) {\n
controlToFind = controlToFind.controls.hasOwnProperty(name as string) ?\n     controlToFind.controls[name]
:\n     null;\n   }
else if (controlToFind instanceof FormArray) {\n     controlToFind = controlToFind.at(<number>name) || null;\n
} else {\n   controlToFind = null;\n } });\n return controlToFind;\n}\n\nfunction coerceToValidator(\n
validatorOrOpts?: ValidatorFn | ValidatorFn[] | AbstractControlOptions | null): ValidatorFn\n  null {\n const
validator =\n   (isOptionsObj(validatorOrOpts) ? (validatorOrOpts as AbstractControlOptions).validators :\n
validatorOrOpts) as ValidatorFn |\n   ValidatorFn[] | null;\n\n return Array.isArray(validator) ?
composeValidators(validator) : validator || null;\n}\n\nfunction coerceToAsyncValidator(\n
asyncValidator?: AsyncValidatorFn | AsyncValidatorFn[] | null, validatorOrOpts?: ValidatorFn |\n
ValidatorFn[] |
AbstractControlOptions | null): AsyncValidatorFn|null {\n const origAsyncValidator =\n
(isOptionsObj(validatorOrOpts) ? (validatorOrOpts as AbstractControlOptions).asyncValidators :\n
asyncValidator) as AsyncValidatorFn |\n
AsyncValidatorFn | null;\n\n return
Array.isArray(origAsyncValidator) ? composeAsyncValidators(origAsyncValidator) :\n
origAsyncValidator || null;\n}\n\nexport type FormHooks = 'change' | 'blur' | 'submit';\n\n/**\n * Interface for
options provided to an `AbstractControl`.\n * \n * @publicApi\n */\nexport interface AbstractControlOptions {\n
/**\n * @description\n * The list of validators applied to a control.\n * \n * validators?:
ValidatorFn|ValidatorFn[]|null;\n /**\n * @description\n * The list of async validators applied to control.\n * \n
*/\n asyncValidators?: AsyncValidatorFn|AsyncValidatorFn[]|null;\n /**\n * @description\n * The event name for
control to update upon.\n * \n * updateOn?: 'change'|'blur'|'submit';\n}\n\nfunction isOptionsObj(\n
validatorOrOpts?: ValidatorFn | ValidatorFn[] | AbstractControlOptions | null): boolean {\n
return validatorOrOpts != null && !Array.isArray(validatorOrOpts) &&\n   typeof validatorOrOpts ===
'object';\n}\n\n/**\n * This is the base class for `FormControl`, `FormGroup`, and `FormArray`.\n * \n * It provides
some of the shared behavior that all controls and groups of controls have, like\n * running validators, calculating
status, and resetting state. It also defines the properties\n * that are shared between all sub-classes, like `value`,
`valid`, and `dirty`. It shouldn't be\n * instantiated directly.\n * \n * @see [Forms Guide](/guide/forms)\n * @see
[Reactive Forms Guide](/guide/reactive-forms)\n * @see [Dynamic Forms Guide](/guide/dynamic-form)\n * \n *
@publicApi\n */\nexport abstract class AbstractControl {\n /** @internal */\n // TODO(issue/24571): remove '!.\n
_pendingDirty !: boolean;\n\n /** @internal */\n // TODO(issue/24571): remove '!.\n _pendingTouched !:
boolean;\n\n /** @internal */\n _onCollectionChange = () => {};\n\n /** @internal */\n // TODO(issue/24571):
remove '!.\n _updateOn !: FormHooks;\n\n // TODO(issue/24571): remove '!.\n private _parent !: FormGroup |
FormArray;\n private _asyncValidationSubscription: any;\n\n /**\n * The current value of the control.\n * \n *
*/\n value: any;\n\n /**\n * For a `FormControl`, the current value.\n * \n * For an enabled `FormGroup`, the values of enabled controls as an
object\n * with a key-value pair for each member of the group.\n * \n * For a disabled `FormGroup`, the values of all
controls as an object\n * with a key-value pair for each member of the group.\n * \n * For a `FormArray`, the values
of enabled controls as an array.\n * \n */\n public readonly value: any;\n\n /**\n * Initialize the AbstractControl
instance.\n * \n * @param validator The function that determines the synchronous validity of this control.\n *
*/\n @param asyncValidator The function that determines the asynchronous validity of this\n * control.\n */\n
constructor(public validator: ValidatorFn|null, public
asyncValidator: AsyncValidatorFn|null) {\n\n /**\n * The parent control.\n * \n */\n get parent():
FormGroup|FormArray { return this._parent; }\n\n /**\n * The validation status of the control. There are four
possible\n * validation status values:\n * \n * **VALID**: This control has passed all validation checks.\n * \n *
**INVALID**: This control has failed at least one validation check.\n * \n * **PENDING**: This control is in the
midst of conducting a validation check.\n * \n * **DISABLED**: This control is exempt from validation checks.\n
*/\n status: string;\n\n /**\n * These status values are mutually exclusive, so a control cannot be\n * both valid AND invalid or invalid
AND disabled.\n * \n */\n // TODO(issue/24571): remove '!.\n public readonly status !: string;\n\n /**\n * A control

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is `valid` when its `status` is `VALID`. \n * \n * @see {@link AbstractControl.status} \n * \n * @returns True if
the control has passed all of its validation tests, \n * false otherwise. \n * \n
  get valid(): boolean { return this.status === VALID; } \n \n /** \n * A control is `invalid` when its `status` is
`INVALID`. \n * \n * @see {@link AbstractControl.status} \n * \n * @returns True if this control has failed one
or more of its validation checks, \n * false otherwise. \n * \n
  get invalid(): boolean { return this.status ===
INVALID; } \n \n /** \n * A control is `pending` when its `status` is `PENDING`. \n * \n * @see {@link
AbstractControl.status} \n * \n * @returns True if this control is in the process of conducting a validation check, \n
* false otherwise. \n * \n
  get pending(): boolean { return this.status == PENDING; } \n \n /** \n * A control is
`disabled` when its `status` is `DISABLED`. \n * \n * Disabled controls are exempt from validation checks and \n
* are not included in the aggregate value of their ancestor \n * controls. \n * \n * @see {@link
AbstractControl.status} \n * \n * @returns True if the control is disabled, false otherwise. \n
  * \n
  get disabled(): boolean { return this.status === DISABLED; } \n \n /** \n * A control is `enabled` as long as
its `status` is not `DISABLED`. \n * \n * @returns True if the control has any status other than `DISABLED`, \n *
false if the status is `DISABLED`. \n * \n * @see {@link AbstractControl.status} \n * \n * \n
  get enabled():
boolean { return this.status !== DISABLED; } \n \n /** \n * An object containing any errors generated by failing
validation, \n * or null if there are no errors. \n * \n // TODO(issue/24571): remove '!'. \n
  public readonly errors!:
ValidationErrors | null; \n \n /** \n * A control is `pristine` if the user has not yet changed \n * the value in the UI. \n
* \n * @returns True if the user has not yet changed the value in the UI; compare `dirty`. \n * Programmatic
changes to a control's value do not mark it dirty. \n * \n
  public readonly pristine: boolean = true; \n \n /** \n * A
control is `dirty` if the user has changed the value \n
  * \n
  * in the UI. \n * \n * @returns True if the user has changed the value of this control in the UI; compare
`pristine`. \n * Programmatic changes to a control's value do not mark it dirty. \n * \n
  get dirty(): boolean { return
!this.pristine; } \n \n /** \n * True if the control is marked as `touched`. \n * \n * A control is marked `touched`
once the user has triggered \n * a `blur` event on it. \n * \n
  public readonly touched: boolean = false; \n \n /** \n *
True if the control has not been marked as touched \n * \n * A control is `untouched` if the user 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()`

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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\n * 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\n * marking is applied.\n * * `onlySelf`: When true, mark only this control. When false or not supplied,\n * marks all\n * direct ancestors. Default is false.\n * \n * \n markAsTouched(opts: {onlySelf?: boolean} = {}): void {\n (this\n 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\n * `touched`.\n * @see `markAsTouched()`\n * \n * \n markAllAsTouched(): void {\n this.markAsTouched({onlySelf:\n true});\n\n this._forEachChild((control: AbstractControl) => control.markAllAsTouched());\n }\n\n /**\n * Marks the control as `untouched`.\n * \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 * \n * @see `markAsTouched()`\n * @see\n * `markAsDirty()`\n * @see `markAsPristine()`\n * \n * @param opts Configuration options that determine how\n * the control propagates changes\n * and emits events after the marking is applied.\n * * * `onlySelf`: When true,\n * mark only this control. When false or not supplied,\n * marks all direct ancestors. Default is false.\n * \n * \n markAsUntouched(opts: {onlySelf?: boolean} = {}): void {\n (this as{touched: boolean}).touched = false;\n\n this._pendingTouched = false;\n\n this._forEachChild(\n (control: AbstractControl) => {\n control.markAsUntouched({onlySelf: true});\n });\n\n if (this._parent && !opts.onlySelf)\n {\n this._parent._updateTouched(opts);\n }\n }\n\n /**\n * Marks the control as `dirty`. A control becomes\n * dirty when\n * the control's value is changed through the UI; compare `markAsTouched`.\n * \n * \n * @see\n * `markAsTouched()`\n * @see `markAsUntouched()`\n * @see `markAsPristine()`\n * \n * @param opts\n * Configuration options that determine how the control propagates changes\n * and emits events after marking is\n * applied.\n * * * `onlySelf`: When true, mark only this control. When false or not supplied,\n * marks all direct\n * ancestors. Default is false.\n * \n * \n markAsDirty(opts: {onlySelf?: boolean} = {}): void {\n (this as{pristine:\n 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 * \n * If the control has any children, marks all children as\n * `pristine`,\n * and recalculates the `pristine` status of all parent\n * controls.\n * \n * \n * @see `markAsTouched()`\n * @see `markAsUntouched()`\n * @see `markAsDirty()`\n * \n * @param\n * opts Configuration options that determine how the control emits events after\n * marking is applied.\n * * *\n * `onlySelf`: When true, mark only this control. When false or not supplied,\n * marks all direct ancestors. Default is\n * false.\n * \n * \n markAsPristine(opts: {onlySelf?: boolean} = {}): void {\n (this as{pristine: boolean}).pristine =\n true;\n\n this._pendingDirty = false;\n\n this._forEachChild((control: AbstractControl) => {\n control.markAsPristine({onlySelf: true});\n });\n\n if (this._parent && !opts.onlySelf) {\n this._parent._updatePristine(opts);\n }\n }\n\n /**\n * Marks the control as `pending`.\n * \n * \n * A control is\n * pending while the control performs async validation.\n * \n * \n * @see {@link AbstractControl.status}\n * \n * \n * @param opts Configuration options that determine how the control propagates changes and\n * emits events after\n * marking is applied.\n * * * `onlySelf`: When true, mark only this control. When false or not supplied,\n * marks all\n * direct ancestors. Default is false.\n * * * `emitEvent`: When true or not supplied (the default), the `statusChanges`\n * observable emits an event with the latest status the control is marked pending.\n * When false, no events are\n * emitted.\n * \n * \n * \n markAsPending(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {\n (this\n as{status: string}).status = PENDING;\n\n if (opts.emitEvent !== false) {\n (this.statusChanges as\n EventEmitter<any>).emit(this.status);\n }\n\n if (this._parent && !opts.onlySelf) {\n this._parent.markAsPending(opts);\n }\n }\n\n /**\n * Disables the control. This means the control is exempt\n * from validation checks and\n * excluded from the aggregate value of any parent. Its status is `DISABLED`.\n * \n * \n * If the control has children, all children are also disabled.\n * \n * \n * @see {@link AbstractControl.status}\n * \n * \n * @param opts Configuration options that determine how the control propagates\n * changes and emits\n * events after the control is disabled.\n * * * `onlySelf`: When true, mark only this control. When false or not\n * supplied,\n * marks all direct ancestors. Default is false.\n * * * `emitEvent`: When true or not supplied (the

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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(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  // If parent has been marked artificially dirty we don't want to re-
  // calculate the parent's dirtiness based on the children.
  const skipPristineCheck = this._parentMarkedDirty(opts.onlySelf);
  (this as {status: string}).status = DISABLED;
  (this as {errors: ValidationErrors | null}).errors = null;
  this._forEachChild((control: AbstractControl) => {
    control.disable({...opts, onlySelf: true});
  });
  this._updateValue();
  if (opts.emitEvent !== false) {
    (this.valueChanges as EventEmitter<any>).emit(this.value);
    (this.statusChanges as EventEmitter<string>).emit(this.status);
  }
  this._updateAncestors({...opts, skipPristineCheck});
  this._onDisabledChange.forEach((changeFn) => changeFn(true));
}

/**
 * Enables the control. This means the control is included in validation checks and
 * the aggregate value of its parent. Its status recalculates based on
 * its value and its validators.
 * By default, if the control has children, all children are enabled.
 * @see {@link AbstractControl.status}
 * @param opts Configure options that control how the control
 * propagates changes and emits events when marked as untouched
 * `onlySelf`: When true, mark only this control. When false or not supplied,
 * marks all direct ancestors. Default is false.
 * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and
 * `valueChanges` observables emit events with the latest status and value when the control is enabled.
 * When false, no events are emitted.
enable(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {
  // If parent has been marked artificially dirty we don't want to re-
  // calculate the parent's dirtiness based on the children.
  const skipPristineCheck = this._parentMarkedDirty(opts.onlySelf);
  (this as {status: string}).status = VALID;
  this._forEachChild((control: AbstractControl) => {
    control.enable({...opts, onlySelf: true});
  });
  this.updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});
  this._updateAncestors({...opts, skipPristineCheck});
  this._onDisabledChange.forEach((changeFn) => changeFn(false));
}

private _updateAncestors(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();
  }
}

/**
 * @param parent Sets the parent of the control
 * setParent(parent: FormGroup|FormArray): void {
  this._parent = parent;
}

/**
 * Sets the value of the control. Abstract method (implemented in sub-classes).
 * abstract setValue(value: any, options?: Object): void;
 * Patches the value of the control. Abstract method (implemented in sub-classes).
 * abstract patchValue(value: any, options?: Object): void;
 * Resets the control. Abstract method (implemented in sub-classes).
 * abstract reset(value?: any, options?: Object): void;
 * Recalculates the value and validation status of the control.
 * By default, it also updates the value and validity of its ancestors.
 * @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.
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);
  }
}

/**
 * @internal
 * updateTreeValidity(opts: {emitEvent?: boolean} = {emitEvent: true}) {
  this._forEachChild((ctrl: AbstractControl) =>

```



```

ctrl._updateTreeValidity(opts));\n  this.updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});\n  }\n\n  private _setInitialStatus() {\n    (this as {status: string}).status = this._allControlsDisabled() ? DISABLED :\n    VALID;\n  }\n\n  private _runValidator(): ValidationErrors|null {\n    return this.validator ? this.validator(this) :\n    null;\n  }\n\n  private _runAsyncValidator(emitEvent?: boolean): void {\n    if (this.asyncValidator) {\n      (this\n      as {status: string}).status\n      = PENDING;\n      const obs = toObservable(this.asyncValidator(this));\n      this._asyncValidationSubscription =\n      obs.subscribe((errors: ValidationErrors | null) => this.setErrors(errors, {emitEvent}));\n    }\n  }\n\n  private\n  _cancelExistingSubscription(): void {\n    if (this._asyncValidationSubscription) {\n      this._asyncValidationSubscription.unsubscribe();\n    }\n  }\n\n  /**\n   * Sets errors on a form control when running\n   * validations manually, rather than automatically.\n   *\n   * Calling `setErrors` also updates the validity of the parent\n   * control.\n   *\n   * @usageNotes\n   * ### Manually set the errors for a control\n   *\n   * ```\n   * const login = new\n   * FormControl('someLogin');\n   * login.setErrors({\n   *   notUnique: true\n   * });\n   *\n   * expect(login.valid).toEqual(false);\n   * expect(login.errors).toEqual({ notUnique: true });\n   *\n   * login.setValue('someOtherLogin');\n   *\n   * expect(login.valid).toEqual(true);\n   * ```\n   */\n  setErrors(errors: ValidationErrors|null, opts: {emitEvent?: boolean} = {}): void {\n    (this as {errors:\n    ValidationErrors | null}).errors = errors;\n    this._updateControlsErrors(opts.emitEvent !== false);\n  }\n\n  /**\n   * Retrieves a child control given the control's name or path.\n   *\n   * @param path A dot-delimited string or array of\n   * string/number values that define the path to the\n   * control.\n   *\n   * @usageNotes\n   * ### Retrieve a nested\n   * control\n   *\n   * For example, to get a `name` control nested within a `person` sub-group:\n   *\n   * ```\n   * this.form.get('person.name');\n   * -OR-\n   * this.form.get(['person', 'name']);\n   * ```\n   * get(path:\n   * Array<string|number>|string): AbstractControl|null { return _find(this, path, '.'); }\n   */\n  /**\n   * @description\n   * Reports error data for the control with the given path.\n   *\n   * @param errorCode The code of the error to check\n   *\n   * @param path A list of control names that designates how to move from\n   * the current control\n   * to the control that should be queried for errors.\n   *\n   * @usageNotes\n   * For example,\n   * for the following `FormGroup`:\n   *\n   * ```\n   * form = new FormGroup({\n   *   address: new FormGroup({\n   *     street: new FormControl() })\n   * });\n   * ```\n   * The path to the 'street' control from the root form would be\n   * 'address' -> 'street'.\n   *\n   * It can be provided to this method in one of two formats:\n   *\n   * 1. An array of string\n   * control names, e.g. `['address', 'street']`\n   *\n   * 1. A period-delimited list of control names in one string, e.g.\n   * `address.street`\n   *\n   * @returns error data for that particular error. If the control or error is not present,\n   * null\n   * is returned.\n   * getError(errorCode: string, path?: Array<string|number>|string): any {\n   *   const control = path ?\n   * this.get(path) : this;\n   *   return control && control.errors ? control.errors[errorCode] : null;\n   * }\n   */\n  /**\n   * @description\n   * Reports whether the\n   * control with the given path has the error specified.\n   *\n   * @param errorCode The code of the error to check\n   *\n   * @param path A list of control names that designates how to move from the current control\n   * to the control that\n   * should be queried for errors.\n   *\n   * @usageNotes\n   * For example, for the following `FormGroup`:\n   *\n   * ```\n   * form = new FormGroup({\n   *   address: new FormGroup({\n   *     street: new FormControl() })\n   * });\n   * ```\n   * The path to the 'street' control from the root form would be 'address' -> 'street'.\n   *\n   * It can be provided\n   * to this method in one of two formats:\n   *\n   * 1. An array of string control names, e.g. `['address', 'street']`\n   *\n   * 1. A period-delimited list of control names in one string, e.g. `address.street`\n   *\n   * If no path is given, this method\n   * checks for the error on the current control.\n   *\n   * @returns whether the given error is present in the control at the\n   * given path.\n   *\n   * If the control\n   * is not present, false is returned.\n   * hasError(errorCode: string, path?: Array<string|number>|string): boolean\n   * {\n   *   return !!this.getError(errorCode, path);\n   * }\n   */\n  /**\n   * Retrieves the top-level ancestor of this control.\n   *\n   * get root(): AbstractControl {\n   *   let x: AbstractControl = this;\n   *   while (x._parent) {\n   *     x = x._parent;\n   *   }\n   *   return x;\n   * }\n   */\n  /**\n   * @internal\n   * _updateControlsErrors(emitEvent: boolean): void {\n   *   (this as {status:\n   * string}).status = this._calculateStatus();\n   *   if (emitEvent) {\n   *     (this.statusChanges as\n   * EventEmitter<string>).emit(this.status);\n   *   }\n   *   if (this._parent) {\n   *     this._parent._updateControlsErrors(emitEvent);\n   *   }\n   * }\n   */\n  /**\n   * @internal\n   * _initObservables() {\n   *   (this

```

```

as{ valueChanges: Observable<any> }.valueChanges = new EventEmitter();\n (this as{statusChanges:
Observable<any> }).statusChanges = new EventEmitter();\n }\n\n private _calculateStatus(): string {\n if
(this._allControlsDisabled())
return DISABLED;\n if (this.errors) return INVALID;\n if (this._anyControlsHaveStatus(PENDING)) return
PENDING;\n if (this._anyControlsHaveStatus(INVALID)) return INVALID;\n return VALID;\n }\n\n /**
@internal *\n abstract _updateValue(): void;\n\n /** @internal *\n abstract _forEachChild(cb: Function):
void;\n\n /** @internal *\n abstract _anyControls(condition: Function): boolean;\n\n /** @internal *\n abstract
_allControlsDisabled(): boolean;\n\n /** @internal *\n abstract _syncPendingControls(): boolean;\n\n /**
@internal *\n _anyControlsHaveStatus(status: string): boolean {\n return this._anyControls((control:
AbstractControl) => control.status === status);\n }\n\n /** @internal *\n _anyControlsDirty(): boolean {\n
return this._anyControls((control: AbstractControl) => control.dirty);\n }\n\n /** @internal *\n
_allControlsTouched(): boolean {\n return this._anyControls((control: AbstractControl) => control.touched);\n
}\n\n /** @internal *\n _updatePristine(opts: {onlySelf?: boolean} = {}): void {\n (this as{pristine:
boolean}).pristine = !this._anyControlsDirty();\n\n if (this._parent && !opts.onlySelf) {\n
this._parent._updatePristine(opts);\n }\n }\n\n /** @internal *\n _updateTouched(opts: {onlySelf?: boolean} =
{}): void {\n (this as{touched: boolean}).touched = this._anyControlsTouched();\n\n if (this._parent &&
!opts.onlySelf) {\n this._parent._updateTouched(opts);\n }\n }\n\n /** @internal *\n _onDisabledChange:
Function[] = [];\n\n /** @internal *\n _isBoxedValue(formState: any): boolean {\n return typeof formState ===
'object' && formState !== null &&\n Object.keys(formState).length === 2 && 'value' in formState &&
'disabled' in formState;\n }\n\n /** @internal *\n _registerOnCollectionChange(fn: () => void): void {\n
this._onCollectionChange = fn;\n }\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` 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
*\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
*\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
*\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 * console.log(control.value); // 'Nancy'\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 *\n * console.log(control.status); // 'VALID'\n *\n * control.reset({ value:
'Drew', disabled: true });\n *\n * console.log(control.value); // 'Drew'\n *\n * console.log(control.status); //
'DISABLED'\n * ```\n *\n * @publicApi\n *\n * @next\n * export class FormControl extends AbstractControl {\n *\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 *\n *
asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[]|null) {\n *\n * super(\n
coerceToValidator(validatorOrOpts),\n * coerceToAsyncValidator(asyncValidator, validatorOrOpts));\n *\n *
this._applyFormState(formState);\n *\n * this._setUpdateStrategy(validatorOrOpts);\n *\n *
this.updateValueAndValidity({onlySelf: true, emitEvent: false});\n *\n * this._initObservables();\n *\n * }\n *\n * /**\n * Sets
a new value for the form control.\n *\n * @param value The new value for the control.\n *\n * @param options
Configuration options that determine how the control propagates changes\n * and emits events when the value
changes.\n * The configuration options are passed to the { @link AbstractControl#updateValueAndValidity\n *
updateValueAndValidity} method.\n *\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 value is updated.\n * When false, no events are emitted.\n * *
`emitModelToViewChange` : When true or not supplied (the default), each change triggers an\n * `onChange`
event to\n * update the view.\n * * `emitViewToModelChange` : When true or not supplied (the default), each
change triggers an\n * `ngModelChange`\n * event to update the model.\n *\n * /\n * setValue(value: any,
options: {\n * onlySelf?: boolean,\n * emitEvent?: boolean,\n * emitModelToViewChange?: boolean,\n *
emitViewToModelChange?: boolean\n * } = {}): void {\n *\n * (this as {value: any}).value = this._pendingValue =
value;\n * if (this._onChange.length && options.emitModelToViewChange !== false) {\n *\n *
this._onChange.forEach(\n *\n * (changeFn) => changeFn(this.value, options.emitViewToModelChange !== false));\n *\n *
}\n *\n * this.updateValueAndValidity(options);\n *\n * }\n *\n * /**\n * Patches the value of a control.\n *\n * This function is
functionally the same as { @link FormControl#setValue setValue} at this level.\n * It exists for symmetry with
{ @link FormGroup#patchValue patchValue} on `FormGroups` and\n * `FormArrays`, where it does behave
differently.\n *\n * @see `setValue` for options\n *\n * /\n * patchValue(value: any, options: {\n * onlySelf?:
boolean,\n * emitEvent?: boolean,\n * emitModelToViewChange?: boolean,\n * emitViewToModelChange?:
boolean\n * } = {}): void {\n *\n * this.setValue(value, options);\n *\n * }\n *\n * /**\n * Resets the form control, marking it
`pristine` and `untouched`, and setting\n * the value to null.\n *\n * @param formState 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
after the value changes.\n *\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 *\n * /\n * reset(formState: any = null, options: {onlySelf?: boolean, emitEvent?:
boolean} = {}): void {\n *\n * this._applyFormState(formState);\n *\n * this.markAsPristine(options);\n *\n *
this.markAsUntouched(options);\n *\n * this.setValue(this.value, options);\n *\n * this._pendingChange = false;\n *\n * }\n *\n * /**\n * @internal\n *\n * _updateValue()\n *\n * /\n *\n * /**\n * @internal\n *\n * _anyControls(condition: Function):
boolean { return false; }\n *\n * /\n *\n * /**\n * @internal\n *\n * _allControlsDisabled():

```

```

boolean { return this.disabled; }
}

/**
 * Register a listener for change events.
 * @param fn The method that is called when the value changes
 */
registerOnChange(fn: Function): void {
  this._onChange.push(fn);
}

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

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

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

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

private
_applyFormState(formState: any) {
  if (this._isBoxedValue(formState)) {
    (this as {value: any}).value =
      this._pendingValue = formState.value;
    formState.disabled ? this.disable({onlySelf: true, emitEvent: false}) :
      this.enable({onlySelf: true, emitEvent: false});
  } else {
    (this as {value: any}).value =
      this._pendingValue = formState;
  }
}

/**
 * Tracks the value and validity state of a group of
 * `FormControl` instances.
 *
 * A `FormGroup` aggregates the values of each child `FormControl` into one
 * object,
 * 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.
 *
 * @usageNotes
 * ### Create a form group with 2 controls
 * ```
 * const
 * form = new FormGroup({
 *   first: new FormControl('Nancy', Validators.minLength(2)),
 *   last: new
 *   FormControl('Drew'),
 * });
 * console.log(form.value); // {first: 'Nancy', last: 'Drew'}
 * console.log(form.status); // 'VALID'
 * ```
 * ### Create a form group with a group-level validator
 * You include group-level validators as the second arg, or group-level async
 * validators as the third arg. These come in handy when you want to perform validation
 * that considers the value of more than one child control.
 * ```
 * const
 * form = new FormGroup({
 *   password: new FormControl("", Validators.minLength(2)),
 *   passwordConfirm: new FormControl("", Validators.minLength(2)),
 * }, passwordMatchValidator);
 * function passwordMatchValidator(g: FormGroup) {
 *   return g.get('password').value ===
 *     g.get('passwordConfirm').value
 *     ? null : {mismatch: true};
 * }
 * ```
 * Like `FormControl` instances, you choose to pass in
 * validators and async validators as part of an options object.
 * ```
 * const
 * form = new FormGroup({
 *   password: new FormControl(""),
 *   passwordConfirm: new FormControl(""),
 * }, {
 *   validators: passwordMatchValidator,
 *   asyncValidators: otherValidator
 * });
 * ```
 * ### 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' });
 * ```
 * @publicApi
 */
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 or array of async validator functions
   */
  constructor(
    public controls: {[key: string]: AbstractControl},
    validatorOrOpts?:
      ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,
    asyncValidator?:
      AsyncValidatorFn|AsyncValidatorFn[]|null) {
    super(
      coerceToValidator(validatorOrOpts),
      coerceToAsyncValidator(asyncValidator, validatorOrOpts));
    this._initObservables();
  }
}

```

```

    this._setUpdateStrategy(validatorOrOpts);\n    this._setUpControls();\n    this.updateValueAndValidity({ onlySelf:
true, emitEvent: false});\n    }\n\n /**\n * Registers a control with the group's list of controls.\n *\n * This
method does not update the value or validity of the control.\n * Use {@link FormGroup#addControl addControl}
instead.\n *\n * @param name The control name to register in the collection\n * @param control Provides the
control for the given name\n */\n registerControl(name: string, control: AbstractControl): AbstractControl {\n    if
(this.controls[name]) return this.controls[name];\n    this.controls[name] = control;\n    control.setParent(this);\n    control._registerOnCollectionChange(this._onCollectionChange);\n    return control;\n }\n\n /**\n * Add a control
to this group.\n *\n * This method also updates the value and validity of the control.\n *\n * @param name The
control name to add to the collection\n * @param control Provides the control for the given name\n */\n addControl(name: string, control:
AbstractControl): void {\n    this.registerControl(name, control);\n    this.updateValueAndValidity();\n    this._onCollectionChange();\n }\n\n /**\n * Remove a control from this group.\n *\n * @param name The
control name to remove from the collection\n */\n removeControl(name: string): void {\n    if (this.controls[name])
this.controls[name]._registerOnCollectionChange(() => {});\n    delete (this.controls[name]);\n    this.updateValueAndValidity();\n    this._onCollectionChange();\n }\n\n /**\n * Replace an existing control.\n *\n * @param name The control name to replace in the collection\n * @param control Provides the control for the
given name\n */\n setControl(name: string, control: AbstractControl): void {\n    if (this.controls[name])
this.controls[name]._registerOnCollectionChange(() => {});\n    delete (this.controls[name]);\n    if (control)
this.registerControl(name,
control);\n    this.updateValueAndValidity();\n    this._onCollectionChange();\n }\n\n /**\n * Check whether
there is an enabled control with the given name in the group.\n *\n * Reports false for disabled controls. If you'd
like to check for existence in the group\n * only, use {@link AbstractControl#get get} instead.\n *\n * @param
controlName The control name to check for existence in the collection\n *\n * @returns false for disabled
controls, true otherwise.\n */\n contains(controlName: string): boolean {\n    return
this.controls.hasOwnProperty(controlName) && this.controls[controlName].enabled;\n }\n\n /**\n * Sets the
value of the `FormGroup`. It accepts an object that matches\n * the structure of the group, with control names as
keys.\n *\n * @usageNotes\n * ### Set the complete value for the form group\n *\n * ```\n * const form =
new FormGroup({\n *   first: new FormControl(),\n *   last: new FormControl()\n * });\n *\n * console.log(form.value); // {first: null, last: null}\n *\n * form.setValue({first: 'Nancy', last:
'Drew'});\n *\n * console.log(form.value); // {first: 'Nancy', last: 'Drew'}\n *\n * ```\n *\n * @throws When strict
checks fail, such as setting the value of a control\n * that doesn't exist or if you exclude a value of a control that
does exist.\n *\n * @param value The new value for the control that matches the structure of the group.\n *
@param options Configuration options that determine how the control propagates changes\n * and emits events
after the value changes.\n * The configuration options are passed to the {@link
AbstractControl#updateValueAndValidity updateValueAndValidity} method.\n *\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` observables emit
events with the latest status and value when the control value is updated.\n * When false, no events are emitted.\n
*/\n setValue(value: {[key: string]: any}, options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {\n
    this._checkAllValuesPresent(value);\n    Object.keys(value).forEach(name => {\n
        this._throwIfControlMissing(name);\n        this.controls[name].setValue(value[name], {onlySelf: true, emitEvent:
options.emitEvent});\n    });\n    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 *\n * console.log(form.value); // {first: null, last: null}\n *\n * form.patchValue({first: 'Nancy'});\n *\n *
console.log(form.value); // {first: 'Nancy', last: null}\n *\n * ```\n *\n * @param value The object that matches the

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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 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 * * 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 * * @param value
Resets the control with an initial value,\n * or an object that defines the initial value and disabled state.\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 * *
@usageNotes\n * * ### Reset the form group values\n * * ```ts\n * const form = new FormGroup({\n *
first: new FormControl('first name'),\n * last: new FormControl('last name')\n * });\n *
console.log(form.value); // {first: 'first name', last: 'last name'}\n *
form.reset({ first: 'name', last: 'last name'
});\n *
console.log(form.value); // {first: 'name', last: 'last name'}\n *
```
\n * * ### Reset the form group
values and disabled status\n * * ```\n * const form = new
FormGroup({\n * first: new FormControl('first name'),\n * last: new FormControl('last name')\n * });\n *
form.reset({\n * first: {value: 'name', disabled: true},\n * last: 'last'\n * });\n *
console.log(this.form.value); // {first: 'name', last: 'last name'}\n *
console.log(this.form.get('first').status); //
'DISABLED'\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 * * 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 Error(`Cannot find form control with name: ${name}.`);\n }\n }\n\n
/** @internal * /\n _forEachChild(cb: (v: any, k: string) => void): void {\n Object.keys(this.controls).forEach(k
=> cb(this.controls[k], k));\n }\n\n /** @internal * /\n _setUpControls(): void {\n this._forEachChild((control:
AbstractControl) => {\n control.setParent(this);\n
control._registerOnCollectionChange(this._onCollectionChange);\n });\n }\n\n /** @internal * /\n

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_updateValue(): void { (this as{ value: any }).value = this._reduceValue(); }\n\n /** @internal *\n
_anyControls(condition: Function): boolean {\n  let res = false;\n  this._forEachChild((control: AbstractControl,\n  name: string) => {\n    res = res || (this.contains(name) && condition(control));\n  });\n  return res;\n }\n\n /**\n @internal *\n _reduceValue() {\n  return this._reduceChildren(\n    {}, (acc: {[k: string]: AbstractControl},\n  control: AbstractControl,\n  name: string) => {\n    if (control.enabled || this.disabled) {\n      acc[name] = control.value;\n    }\n    return acc;\n  });\n }\n\n /** @internal *\n _reduceChildren(initValue: any, fn: Function) {\n  let res =\n  initValue;\n  this._forEachChild(\n    (control: AbstractControl, name: string) => { res = fn(res, control, name);\n  });\n  return res;\n }\n\n /** @internal *\n _allControlsDisabled(): boolean {\n  for (const controlName of\n  Object.keys(this.controls)) {\n    if (this.controls[controlName].enabled) {\n      return false;\n    }\n  }\n  return Object.keys(this.controls).length > 0 || this.disabled;\n }\n\n /** @internal *\n _checkAllValuesPresent(value: any): void {\n  this._forEachChild((control: AbstractControl, name: string) => {\n    if (value[name] === undefined) {\n      throw new Error(`Must supply a value for form control with name:\n  '${name}'.`);\n    }\n  });\n }\n\n /**\n * Tracks the value\n  and validity state of an array of `FormControl`, `FormGroup` or `FormArray`\n  instances.\n  * A `FormArray`\n  aggregates the values of each child `FormControl` into an array.\n  * It calculates its status by reducing the status\n  values of its children. For example, if one of\n  * the controls in a `FormArray` is invalid, the entire array becomes\n  invalid.\n  * `FormArray` is one of the three fundamental building blocks used to define forms in Angular,\n  * along with `FormControl` and `FormGroup`.\n  * @usageNotes\n  * ### Create an array of form controls\n  *\n  *```\n  * const arr = new FormArray([\n  *   new FormControl('Nancy', Validators.minLength(2)),\n  *   new\n  FormControl('Drew'),\n  * ]);\n  * console.log(arr.value); // ['Nancy', 'Drew']\n  * console.log(arr.status); //\n  'VALID'\n  *```\n  * ### Create a form array with array-level validators\n  * You include array-level\n  validators and async validators. These come in handy\n  * when you want to perform validation\n  that considers the value of more than one child\n  * control.\n  * The two types of validators are passed in\n  separately as the second and third arg\n  * respectively, or together as part of an options object.\n  *\n  *```\n  * const\n  arr = new FormArray([\n  *   new FormControl('Nancy'),\n  *   new FormControl('Drew')\n  * ], { validators:\n  myValidator, asyncValidators: myAsyncValidator});\n  *\n  *```\n  * ### Set the updateOn property for all controls\n  in a form array\n  * The options object is used to set a default value for each child\n  * control's `updateOn`\n  property. If you set `updateOn` to `blur` at the\n  * array level, all child controls default to `blur`, unless the child\n  * has explicitly specified a different `updateOn` value.\n  *\n  *```\n  * const arr = new FormArray([\n  *   new\n  FormControl(),\n  * ], {updateOn: 'blur'});\n  *\n  *```\n  * ### Adding or removing controls from a form array\n  *\n  * To change the controls in the array, use the `push`, `insert`, `removeAt` or `clear`\n  methods\n  * in `FormArray` itself. These methods ensure the controls are properly tracked in the\n  * form's\n  hierarchy. Do not modify the array of `AbstractControl`s used to instantiate\n  * the `FormArray` directly, as that\n  result in strange and unexpected behavior such\n  * as broken change detection.\n  *\n  * @publicApi\n  * @export\n  class FormArray extends AbstractControl {\n  /**\n  * Creates a new `FormArray` instance.\n  * @param\n  controls An array of child controls. Each child control is given an index\n  * where it is registered.\n  * @param\n  validatorOrOpts A synchronous validator function, or an array of\n  * such functions, or an\n  `AbstractControlOptions` object that contains validation functions\n  * and a validation trigger.\n  * @param\n  asyncValidator A single async validator or array of async validator functions\n  *\n  */\n  constructor(\n    public\n  controls: AbstractControl[],\n    validatorOrOpts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,\n    \n  asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[]|null) {\n    super(\n  coerceToValidator(validatorOrOpts),\n    coerceToAsyncValidator(asyncValidator, validatorOrOpts));\n  this._initObservables();\n  this._setUpdateStrategy(validatorOrOpts);\n  this._setUpControls();\n  this.updateValueAndValidity({onlySelf: true, emitEvent: false});\n }\n\n /**\n  * Get the `AbstractControl` at the\n  given `index` in the array.\n  * @param index Index in the array to retrieve the control\n  */\n  at(index:\n  number): AbstractControl { return this.controls[index]; }\n\n /**\n  * Insert a new `AbstractControl` at the end of\n  the array.\n  * @param control Form control to be inserted\n  */\n  push(control: AbstractControl): void {\n

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this.controls.push(control);\n this._registerControl(control);\n this.updateValueAndValidity();\n
this._onCollectionChange();\n }\n\n /**\n * Insert a new `AbstractControl` at the given `index` in the array.\n
*\n * @param index Index in the array to insert the control\n * @param control Form control to be inserted\n
*/\n insert(index: number, control: AbstractControl): void {\n this.controls.splice(index, 0, control);\n
this._registerControl(control);\n this.updateValueAndValidity();\n }\n\n /**\n * Remove the control at the given
`index` in the array.\n *\n * @param index Index in the array to remove the control\n */\n removeAt(index:
number): void {\n if (this.controls[index]) this.controls[index]._registerOnCollectionChange(() => {});\n
this.controls.splice(index, 1);\n this.updateValueAndValidity();\n }\n\n /**\n * Replace an existing control.\n
*\n * @param index Index in the array to replace the control\n * @param control The `AbstractControl` control to
replace the existing control\n */\n setControl(index: number, control: AbstractControl): void {\n if
(this.controls[index]) this.controls[index]._registerOnCollectionChange(() =>
{\n this.controls.splice(index, 1);\n\n if (control) {\n this.controls.splice(index, 0, control);\n
this._registerControl(control);\n }\n\n this.updateValueAndValidity();\n this._onCollectionChange();\n }\n\n
/**\n * Length of the control array.\n */\n get length(): number { return this.controls.length; }\n\n /**\n * Sets
the value of the `FormArray`. It accepts an array that matches\n * the structure of the control.\n *\n * This
method performs strict checks, and throws an error if you try\n * to set the value of a control that doesn't exist or if
you exclude the\n * value of a control.\n *\n * @usageNotes\n * ### Set the values for the controls in the form
array\n *\n * ```\n * const arr = new FormArray([\n * new FormControl(),\n * new FormControl()\n * ]);\n
*\n * console.log(arr.value); // [null, null]\n *\n * arr.setValue(['Nancy', 'Drew']);\n * console.log(arr.value); //
['Nancy', 'Drew']\n * ```\n
*\n * @param value Array of values for the controls\n * @param options Configure options that determine how
the control propagates changes and\n * emits events after the value changes\n *\n * * `onlySelf`: When true,
each change only affects this control, and not its parent. Default\n * is 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 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 setValue(value: any[], options: {onlySelf?: boolean, emitEvent?:
boolean} = {}): void {\n this._checkAllValuesPresent(value);\n value.forEach((newValue: any, index: number)
=> {\n this._throwIfControlMissing(index);\n this.at(index).setValue(newValue, {onlySelf: true, emitEvent:
options.emitEvent});\n });\n this.updateValueAndValidity(options);\n }\n\n /**\n * Patches the value of the
`FormArray`. It accepts an array that matches the\n * structure of the control, and does its best to match the values
to the correct\n * controls in the group.\n *\n * It accepts both super-sets and sub-sets of the array without
throwing an error.\n *\n * @usageNotes\n * ### Patch the values for controls in a form array\n *\n * ```\n *
const arr = new FormArray([\n * new FormControl(),\n * new FormControl()\n * ]);\n *\n * console.log(arr.value); // [null, null]\n *\n * arr.patchValue(['Nancy']);\n * console.log(arr.value); // ['Nancy',
null]\n * ```\n
*\n * @param value Array of latest values for the controls\n * @param options Configure
options that determine how the control propagates changes and\n * emits events after the value changes\n *\n * *
`onlySelf`: When true, each change only affects this control, and
not its parent. Default\n * is 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 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: any[], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {\n
value.forEach((newValue: any, index: number) => {\n if (this.at(index)) {\n
this.at(index).patchValue(newValue, {onlySelf: true, emitEvent: options.emitEvent});\n }\n });\n
this.updateValueAndValidity(options);\n }\n\n /**\n * Resets the `FormArray` and all descendants are marked
`pristine` and `untouched`, and the\n * value of all descendants to null or null maps.\n *\n * You reset to a
specific form state by passing in an array of

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states\n * that matches the structure of the control. The state is a standalone value\n * or a form state object with
both a value and a disabled status.\n * \n * @usageNotes\n * ### Reset the values in a form array\n * \n *
```\n * const arr = new FormArray([\n *   new FormControl(),\n *   new FormControl()\n * ]);\n *
arr.reset(['name', 'last name']);\n * \n * console.log(this.arr.value); // ['name', 'last name']\n * ```\n * \n * ###
Reset the values in a form array and the disabled status for the first control\n * \n * ```\n * this.arr.reset([\n *
{value: 'name', disabled: true},\n * 'last'\n * ]);\n * \n * console.log(this.arr.value); // ['name', 'last name']\n *
console.log(this.arr.get(0).status); // 'DISABLED'\n * ```\n * \n * @param value Array of values for the
controls\n * @param options Configure options that determine how the control propagates changes and\n * emits
events after the value changes\n * \n *
* `onlySelf`: When true, each change only affects this control, and not its parent. Default\n * is 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 * \n * reset(value: any = [], options: {onlySelf?: boolean, emitEvent?:
boolean} = {}): void {\n *   this._forEachChild((control: AbstractControl, index: number) => {\n *
control.reset(value[index], {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 array, including any disabled controls.\n * \n * Reports all values regardless of
disabled
status.\n * For enabled controls only, the `value` property is the best way to get the value of the array.\n * \n *
getRawValue(): any[] {\n *   return this.controls.map((control: AbstractControl) => {\n *     return control instanceof
FormControl ? control.value : (<any>control).getRawValue();\n *   });\n * }\n * \n * Remove all controls in the
`FormArray`.\n * \n * @usageNotes\n * ### Remove all elements from a FormArray\n * \n * ```\n * const
arr = new FormArray([\n *   new FormControl(),\n *   new FormControl()\n * ]);\n * console.log(arr.length);
// 2\n * \n * arr.clear();\n * console.log(arr.length); // 0\n * ```\n * \n * It's a simpler and more efficient
alternative to removing all elements one by one:\n * \n * ```\n * const arr = new FormArray([\n *   new
FormControl(),\n *   new FormControl()\n * ]);\n * \n * while (arr.length) {\n *   arr.removeAt(0);\n * }\n *
`\n * \n * clear(): void {\n *   if (this.controls.length
< 1) return;\n *   this._forEachChild((control: AbstractControl) => control._registerOnCollectionChange(() =>
{}));\n *   this.controls.splice(0);\n *   this.updateValueAndValidity();\n * }\n * \n * @internal\n *
_syncPendingControls(): boolean {\n *   let subtreeUpdated = this.controls.reduce((updated: boolean, child:
AbstractControl) => {\n *     return child._syncPendingControls() ? true : updated;\n *   }, false);\n *   if
(subtreeUpdated) this.updateValueAndValidity({onlySelf: true});\n *   return subtreeUpdated;\n * }\n * \n * @internal
* \n * _throwIfControlMissing(index: number): void {\n *   if (!this.controls.length) {\n *     throw new Error(`
There are no form controls registered with this array yet. If you're using ngModel,\n *     you may want to check
next tick (e.g. use setTimeout).\n *   `);\n *   }\n *   if (!this.at(index)) {\n *     throw new Error(`Cannot find form
control at index ${index}`);\n *   }\n * }\n * \n * @internal\n *
_forEachChild(cb: Function):
void {\n *   this.controls.forEach((control: AbstractControl, index: number) => { cb(control, index); });\n * }\n *
/>\n * \n * @internal\n *
_updateValue(): void {\n *   (this as {value: any}).value =\n *     this.controls.filter((control) =>
control.enabled || this.disabled)\n *     .map((control) => control.value);\n * }\n * \n * @internal\n *
_anyControls(condition: Function): boolean {\n *   return this.controls.some((control: AbstractControl) =>
control.enabled && condition(control));\n * }\n * \n * @internal\n *
_setUpControls(): void {\n *
this._forEachChild((control: AbstractControl) => this._registerControl(control));\n * }\n * \n * @internal\n *
_checkAllValuesPresent(value: any): void {\n *   this._forEachChild((control: AbstractControl, i: number) => {\n *
if (value[i] === undefined) {\n *     throw new Error(`Must supply a value for form control at index: ${i}`);\n *
}\n *   });\n * }\n * \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 || this.disabled;\n *
}\n * \n * private _registerControl(control: AbstractControl) {\n *   control.setParent(this);\n * }

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control._registerOnCollectionChange(this._onCollectionChange);\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 { AfterViewInit, Directive, EventEmitter,
Inject, Input, Optional, Self, forwardRef } from '@angular/core';\n\nimport { AbstractControl, FormControl,
FormGroup, FormHooks } from './model';\n\nimport { NG_ASYNC_VALIDATORS, NG_VALIDATORS } from
'./validators';\n\nimport { ControlContainer } from './control_container';\n\nimport { Form } from
'./form_interface';\n\nimport { NgControl } from './ng_control';\n\nimport { NgModel } from './ng_model';\n\nimport
{ NgModelGroup } from './ng_model_group';\n\nimport
{ composeAsyncValidators, composeValidators, removeDir, setUpControl, setUpFormContainer,
syncPendingControls } from './shared';\n\nexport const formDirectiveProvider: any = {\n provide:
ControlContainer,\n useExisting: forwardRef(() => NgForm)\n};\n\nconst resolvedPromise = (() =>
Promise.resolve(null))();\n\n/**\n * @description\n * Creates a top-level `FormGroup` instance and binds it to a
form\n * to track aggregate form value and validation status.\n *\n * As soon as you import the `FormsModule`, this
directive becomes active by default on\n * all `` tags. You don't need to add a special selector.\n *\n * You
optionally export the directive into a local template variable using `ngForm` as the key\n * (ex:
`#myForm="ngForm"`). This is optional, but useful. Many properties from the underlying\n * `FormGroup`
instance are duplicated on the directive itself, so a reference to it\n * gives you access to the aggregate value and
validity status of the form, as well as\n * user
interaction properties like `dirty` and `touched`.\n *\n * To register child controls with the form, use `NgModel`
with a `name`\n * attribute. You may use `NgModelGroup` to create sub-groups within the form.\n *\n * If
necessary, listen to the directive's `ngSubmit` event to be notified when the user has\n * triggered a form
submission. The `ngSubmit` event emits the original form\n * submission event.\n *\n * In template driven forms,
all `` tags are automatically tagged as `NgForm`.\n *\n * To import the `FormsModule` but skip its usage in
some forms,\n * for example, to use native HTML5 validation, add the `ngNoForm` and the ``\n * tags won't
create an `NgForm` directive. In reactive forms, using `ngNoForm` is\n * unnecessary because the `` tags are
inert. In that case, you would\n * refrain from using the `formGroup` directive.\n *\n * @usageNotes\n *\n * ###
Listening for form submission\n *\n * The following example shows how to capture the form values from the
`ngSubmit`
event.\n *\n * { @example forms/ts/simpleForm/simple_form_example.ts region='Component' }\n *\n * ### Setting
the update options\n *\n * The following example shows you how to change the `updateOn` option from its default
using\n * ngFormOptions.\n *\n * ```html\n * <form [ngFormOptions]="{updateOn: 'blur'}">\n *   <input
name="one" ngModel> <!-- this ngModel will update on blur -->\n * </form>\n * ```\n *\n * ### Native DOM
validation UI\n *\n * In order to prevent the native DOM form validation UI from interfering with Angular's form\n *
validation, Angular automatically adds the `novalidate` attribute on any `` whenever\n * `FormsModule` or
`ReactiveFormsModule` are imported into the application.\n *\n * If you want to explicitly enable native DOM
validation UI with Angular forms, you can add the\n * `ngNativeValidate` attribute to the `` element:\n *\n *
```html\n * <form ngNativeValidate>\n *   ...</form>\n * ```\n *\n * @ngModule FormsModule\n *
@publicApi\n
*/\n\n@Directive({\n selector: 'form:not([ngNoForm]):not([formGroup]),ng-form,[ngForm]',\n providers:
[formDirectiveProvider],\n host: {'(submit)': 'onSubmit($event)', '(reset)': 'onReset()' },\n outputs: ['ngSubmit'],\n
exportAs: 'ngForm'\n})\nexport class NgForm extends ControlContainer implements Form,\n AfterViewInit {\n
/**\n * @description\n * Returns whether the form submission has been triggered.\n *\n * public readonly
submitted: boolean = false;\n\n private _directives: NgModel[] = [];\n\n /**\n * @description\n * The
`FormGroup` instance created for this form.\n *\n * form: FormGroup;\n\n /**\n * @description\n * Event
emitter for the `ngSubmit` event\n *\n * ngSubmit = new EventEmitter();\n\n /**\n * @description\n * Tracks
options for the `NgForm` instance.\n *\n * **updateOn**: Sets the default `updateOn` value for all child
`NgModels` below it\n * unless explicitly set by a child `NgModel` using `ngModelOptions`). Defaults

```

```

to 'change'.\n * Possible values: `change` | `blur` | `submit`.\n * \n * \n // TODO(issue/24571): remove '!.\n
@Input('ngFormOptions') options!: {updateOn?: FormHooks};\n\n constructor(\n  @Optional() @Self()
@Inject(NG_VALIDATORS) validators: any[],\n  @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS)
asyncValidators: any[]) {\n  super();\n  this.form =\n    new FormGroup({}, composeValidators(validators),
composeAsyncValidators(asyncValidators));\n  }\n\n /**\n * @description\n * Lifecycle method called after the
view is initialized. For internal use only.\n * \n ngAfterViewInit() { this._setUpdateStrategy(); }\n\n /**\n *
@description\n * The directive instance.\n * \n get formDirective(): Form { return this; }\n\n /**\n *
@description\n * The internal `FormGroup` instance.\n * \n get control(): FormGroup { return this.form; }\n\n
/**\n * @description\n * Returns an array representing the path to this group. Because this directive\n
* always lives at the top level of a form, it is always an empty array.\n * \n get path(): string[] { return []; }\n\n
/**\n * @description\n * Returns a map of the controls in this group.\n * \n get controls(): {[key: string]:
AbstractControl} { return this.form.controls; }\n\n /**\n * @description\n * Method that sets up the control
directive in this group, re-calculates its value\n * and validity, and adds the instance to the internal list of
directives.\n * \n * @param dir The `NgModel` directive instance.\n * \n addControl(dir: NgModel): void {\n
resolvedPromise.then() => {\n  const container = this._findContainer(dir.path);\n  (dir as {control:
FormControl}).control =\n    <FormControl>container.registerControl(dir.name, dir.control);\n
setUpControl(dir.control, dir);\n  dir.control.updateValueAndValidity({emitEvent: false});\n
this._directives.push(dir);\n  });\n  }\n\n /**\n * @description\n * Retrieves the
`FormControl` instance from the provided `NgModel` directive.\n * \n * @param dir The `NgModel` directive
instance.\n * \n getControl(dir: NgModel): FormControl { return <FormControl>this.form.get(dir.path); }\n\n
/**\n * @description\n * Removes the `NgModel` instance from the internal list of directives\n * \n * @param
dir The `NgModel` directive instance.\n * \n removeControl(dir: NgModel): void {\n  resolvedPromise.then() =>
{\n  const container = this._findContainer(dir.path);\n  if (container) {\n
container.removeControl(dir.name);\n  }\n  removeDir<NgModel>(this._directives, dir);\n  });\n  }\n\n /**\n
* @description\n * Adds a new `NgModelGroup` directive instance to the form.\n * \n * @param dir The
`NgModelGroup` directive instance.\n * \n addFormGroup(dir: NgModelGroup): void {\n
resolvedPromise.then() => {\n  const container = this._findContainer(dir.path);\n  const group = new
FormGroup({});\n  setUpFormContainer(group,
dir);\n  container.registerControl(dir.name, group);\n  group.updateValueAndValidity({emitEvent: false});\n
});\n  }\n\n /**\n * @description\n * Removes the `NgModelGroup` directive instance from the form.\n * \n *
@param dir The `NgModelGroup` directive instance.\n * \n removeFormGroup(dir: NgModelGroup): void {\n
resolvedPromise.then() => {\n  const container = this._findContainer(dir.path);\n  if (container) {\n
container.removeControl(dir.name);\n  }\n  });\n  }\n\n /**\n * @description\n * Retrieves the `FormGroup`
for a provided `NgModelGroup` directive instance\n * \n * @param dir The `NgModelGroup` directive instance.\n
* \n getFormGroup(dir: NgModelGroup): FormGroup { return <FormGroup>this.form.get(dir.path); }\n\n /**\n
* Sets the new value for the provided `NgControl` directive.\n * \n * @param dir The `NgControl` directive
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",/**\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';\n\nimport { Form } from
'./form_interface';\n\nimport
{ composeAsyncValidators, composeValidators, controlPath } from './shared';\n\nimport { AsyncValidatorFn,
ValidatorFn } from './validators';\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 {\n
return this.formDirective!.getFormGroup(this);\n }\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 */\n
_checkParentType(): void {\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 { FormErrorExamples as Examples } from './error_examples';\n\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 FormGroupName
directive.\n\n    Option 1: Use FormControlName instead of NgModel (reactive strategy):\n\n    ${Examples.formGroupName}\n\n    Option 2: Update NgModel's parent to 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'\n    name='first'>\n    Example
2: <input [(ngModel)]='person.firstName' [NgModelOptions]='{standalone: true}'>);\n  }\n }\n\n  static
modelGroupParentException() {\n    throw new Error(`\n ngModelGroup cannot be used with a parent

```

formGroup directive.

Option 1: Use groupName instead of ngModelGroup (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 {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from './validators';
import {AbstractFormGroupDirective} from './abstract_form_group_directive';
import {ControlContainer} from './control_container';
import {NgForm} from './ng_form';
import {TemplateDrivenErrors} from './template_driven_errors';
export const modelGroupProvider: any = {
  provide: ControlContainer,
  useExisting: forwardRef(() => NgModelGroup);
};
/**
 * @description
 * Creates and binds a `FormGroup` instance to a DOM element.
 * This directive can only be used as a child of `NgForm` (within `<form>` tags).
 * Use this directive to validate a sub-group of your form separately from the rest of your form, or if some values in your domain model make more sense to consume together in a nested object.
 * Provide a name for the sub-group and it will become the key for the sub-group in the form's full value. If you need direct access, export the directive into a local template variable using `ngModelGroup` (ex:
`#myGroup="ngModelGroup"`).
 * @usageNotes
 * ### Consuming controls in a grouping
 * The following example shows you how to combine controls together in a sub-group of the form.
 * @example
forms/ts/ngModelGroup/ng_model_group_example.ts
region='Component'
 * @ngModule FormsModule
 * @publicApi
 * @Directive({selector: '[ngModelGroup]', providers: [modelGroupProvider], exportAs: 'ngModelGroup'})
export class NgModelGroup extends AbstractFormGroupDirective implements OnInit, OnDestroy {
  /**
   * @description
   * Tracks the name of the `NgModelGroup` bound to the directive. The name corresponds to a key in the parent `NgForm`.
   * // TODO(issue/24571): remove '!'.
   * @Input('ngModelGroup') name!: string;
   * constructor(@Host() @SkipSelf() parent: ControlContainer, @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[], @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[]) {
   *   super();
   *   this._parent = parent;
   *   this._validators = validators;
   *   this._asyncValidators = asyncValidators;
   * }
   * // ** @internal
   * _checkParentType(): void {
   *   if (!(this._parent instanceof NgModelGroup) && !(this._parent instanceof NgForm)) {
   *     TemplateDrivenErrors.modelGroupParentException();
   *   }
   * }
}
 * @license
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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);
};
/**
 * `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 an old value as they have been dirty checked before. As this is a very common case for `ngModel`, we added this second change detection run.
 * Notes:
 * - this is


```

just one extra run no matter how many `ngModel` have been changed.

`* - this is a general problem when using `exportAs` for directives!`

```

const 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
 * within a parent form, the directive also registers itself with the form as a child
 * control.
 * This directive is used by itself or as part of a larger form. Use the `ngModel` selector to activate it.
 * It accepts a domain model as an optional `Input`. If you have a one-way binding
 * to `ngModel` with `[]` syntax, changing the value of the domain model in the component
 * class sets the value in the view. If you have a two-way binding with `[]` syntax
 * (also known as 'banana-box syntax'), the value in the UI always syncs back to
 * the domain model in your class.
 * To inspect the properties of the associated `FormControl` (like validity state),
 * export the directive into a local template variable using `ngModel` as the key
 * (ex: `#myVar="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`:
 * { @example forms/ts/simpleNgModel/simple_ng_model_example.ts region='Component' }
 * When using the `ngModel` within `` 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.

### Using ngModel within a form

The following example shows controls using `ngModel` within a form:

```

{ @example forms/ts/simpleForm/simple_form_example.ts region='Component' }
### Using a standalone ngModel within a group
The following example shows you how to use a standalone ngModel control within a form. This controls the display of the

```

```

form, but doesn't contain form data.
`html`
<form>
  <input name="login" ngModel placeholder="Login">
  <input type="checkbox" ngModel [ngModelOptions]="{standalone: true}"> Show more options?
</form>
`!-- form value: {login: " } -->
`
### Setting the ngModel name attribute through options
The following example shows you an alternate way to set the name attribute. The name attribute is used 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>
`!-- form value: {user: " } -->
`
@ngModule FormsModule
@publicApi
@Directive({
  selector: '[ngModel]:not([formControlName]):not([formControl])',
  providers: [formControlBinding],
  exportAs: 'ngModel'})
export class NgModel extends NgControl implements OnChanges,

```

```

  OnDestroy {
    public readonly control: FormControl = new FormControl();
    // At runtime we coerce arbitrary values assigned to the "disabled" input to a "boolean".
    // This is not reflected in the type of the property because outside of templates, consumers
    // should only deal with booleans. In templates, a string is allowed for convenience and to
    // match the native "disabled attribute" semantics which can be observed on input elements.
    // This static member tells the compiler that values of type "string" can also be assigned
    // to the input in a template.
    /** @nodoc */
    static ngAcceptInputType_isDisabled: boolean|string;
    /** @internal */
    _registered = false;
    /**
     * @description
     * Internal reference to the view model value.
     */
    viewModel: any;
    /**
     * @description
     * Tracks the name bound to the directive. The parent form uses this name as a key to retrieve this control's value.
     */
    // TODO(issue/24571):

```

```

remove '!.\n @Input() name !: string;\n\n /**\n * @description\n * Tracks whether the control is disabled.\n
*\n // TODO(issue/24571): remove '!.\n @Input('disabled') isDisabled !: boolean;\n\n /**\n * @description\n *
Tracks the value bound to this directive.\n *\n @Input('ngModel') model: any;\n\n /**\n * @description\n *
Tracks the configuration options for this `ngModel` instance.\n *\n * **name**: An alternative to setting the
name attribute on the form control element. See\n * the [example](api/forms/NgModel#using-ngmodel-on-a-
standalone-control) for using `NgModel`\n * as a standalone control.\n *\n * **standalone**: When set to true,
the `ngModel` will not register itself with its parent form,\n * and acts as if it's not in the form. Defaults to false.\n
*\n * **updateOn**: Defines the event upon which the form control value and validity update.\n * Defaults to
'change'. Possible values: `change` | `blur` | `submit`\n
*\n *\n // TODO(issue/24571): remove '!.\n @Input('ngModelOptions')\n options !: {name?: string,
standalone?: boolean, updateOn?: FormHooks};\n\n /**\n * @description\n * Event emitter for producing the
`ngModelChange` event after\n * the view model updates.\n *\n @Output('ngModelChange') update = new
EventEmitter();\n\n constructor(@Optional() @Host() parent: ControlContainer,\n @Optional() @Self()
@Inject(NG_VALIDATORS) validators: Array<Validator|ValidatorFn>,\n @Optional() @Self()
@Inject(NG_ASYNC_VALIDATORS) asyncValidators: Array<AsyncValidator|AsyncValidatorFn>,\n
@Optional() @Self() @Inject(NG_VALUE_ACCESSOR)\n valueAccessors: ControlValueAccessor[]) {\n
super();\n this._parent = parent;\n this._rawValidators = validators || [];\n
this._rawAsyncValidators = asyncValidators || [];\n this.valueAccessor = selectValueAccessor(this,
valueAccessors);\n
}\n\n /**\n * @description\n * A lifecycle method called when the directive's
inputs change. For internal use\n * only.\n *\n * @param changes A object of key/value
pairs for the set of changed inputs.\n *\n ngOnChanges(changes: SimpleChanges) {\n
this._checkForErrors();\n if (!this._registered) this._setUpControl();\n if ('isDisabled' in changes)
{\n this._updateDisabled(changes);\n }\n if (isPropertyUpdated(changes,
this.viewModel)) {\n this._updateValue(this.model);\n this.viewModel = this.model;\n
}\n }\n\n /**\n * @description\n * Lifecycle method called before the directive's
instance is destroyed. For internal\n * use only.\n
*\n ngOnDestroy(): void { this.formDirective && this.formDirective.removeControl(this); }\n\n
/**\n * @description\n * Returns an array that represents the path from the top-level form to this
control.\n * Each index is the string name of the control on that level.\n *\n get path():
string[] {\n return this._parent ? controlPath(this.name, this._parent) : [this.name];\n }\n\n
/**\n * @description\n * The top-level directive for this control if present, otherwise null.\n
*\n get formDirective(): any { return this._parent ? this._parent.formDirective : null; }\n\n
/**\n * @description\n * Synchronous validator function composed of all the synchronous validators\n
* registered with this directive.\n *\n get validator():
ValidatorFn|null { return composeValidators(this._rawValidators); }\n\n /**\n * @description\n
* Async validator function composed of all the async validators registered with this\n * directive.\n
*\n get asyncValidator(): AsyncValidatorFn|null {\n return
composeAsyncValidators(this._rawAsyncValidators);\n }\n\n /**\n * @description\n
* Sets the new value for the view model and emits an `ngModelChange` event.\n *\n * @param
newValue The new value emitted by `ngModelChange`\n *\n viewToModelUpdate(newValue:
any): void {\n this.viewModel = newValue;\n this.update.emit(newValue);\n }\n\n
private _setUpControl(): void {\n this._setUpUpdateStrategy();\n this._isStandalone() ?
this._setUpStandalone()\n :\n this.formDirective.addControl(this);\n this._registered = true;\n }\n\n
private _setUpUpdateStrategy(): void {\n if (this.options && this.options.updateOn != null) {\n
this.control._updateOn = this.options.updateOn;\n }\n }\n\n private _isStandalone():
boolean {\n return !this._parent || !(this.options && this.options.standalone);\n }\n\n

```

```

private _setUpStandalone(): void {\n      setUpControl(this.control, this);\nthis.control.updateValueAndValidity({emitEvent: false});\n      }\n\n      private _checkForErrors(): void\n{\n      if (!this._isStandalone()) {\n      this._checkParentType();\n      }\nthis._checkName();\n      }\n\n      private _checkParentType(): void {\n      if (!(this._parent instanceof NgModelGroup) &&\n      this._parent instanceof\nAbstractFormGroupDirective) {\n      TemplateDrivenErrors.formGroupNameException();\n      } else\nif (\n      !(this._parent instanceof NgModelGroup) && !(this._parent instanceof NgForm)) {\n      TemplateDrivenErrors.modelParentException();\n      }\n      }\n\n      private _checkName(): void\n{\n      if (this.options && this.options.name) this.name = this.options.name;\n      if\n(!this._isStandalone() && !this.name) {\n      TemplateDrivenErrors.missingNameException();\n      }\n      }\n\n      private _updateValue(value: any): void {\n      resolvedPromise.then(\n()\n=> { this.control.setValue(value, {emitViewToModelChange: false}); });\n      }\n\n      private\n_updateDisabled(changes: SimpleChanges) {\n      const disabledValue = changes['isDisabled'].currentValue;\n      const isDisabled =\ndisabledValue === " || (disabledValue && disabledValue !== 'false');\n      resolvedPromise.then(() => {\n      if (isDisabled && !this.control.disabled) {\n      this.control.disable();\n      } else if\n(!isDisabled && this.control.disabled) {\n      this.control.enable();\n      }\n      });\n      }\n}\n\n"/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is\n governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport {Directive} from '@angular/core';\n\n/**\n * @description\n * Adds `novalidate` attribute to all\n forms by default.\n * `novalidate` is used to disable browser's native form validation.\n * If you want to use\n native validation with Angular\n forms, just add `ngNativeValidate` attribute:\n * <form ngNativeValidate></form>\n *\n * @publicApi\n * @ngModule ReactiveFormsModule\n * @ngModule FormsModule\n */\n@Directive({\n selector:\n'form:not([ngNoForm]):not([ngNativeValidate])',\n host: {'novalidate': ''},\n})\nexport class ÉµNgNoValidate\n{\n}\n\nexport {ÉµNgNoValidate as NgNoValidate};\n\n"/**\n * @license\n * Copyright Google Inc. All Rights\n Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the\n LICENSE file at https://angular.io/license\n */\n\nimport {Directive, EventEmitter, Inject, InjectionToken, Input,\nOnChanges, Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';\nimport {FormControl}\nfrom '../model';\nimport {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../validators';\nimport\n{ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';\nimport {NgControl} from\n'./ng_control';\nimport {ReactiveErrors}\nfrom './reactive_errors';\nimport {_ngModelWarning, composeAsyncValidators, composeValidators,\nisPropertyUpdated, selectValueAccessor, setUpControl} from './shared';\nimport {AsyncValidator,\nAsyncValidatorFn, Validator, ValidatorFn} from './validators';\n\n/**\n * Token to provide to turn off the\n ngModel warning on formControl and formControlName.\n */\nexport const\nNG_MODEL_WITH_FORM_CONTROL_WARNING =\nnew\nInjectionToken('NgModelWithFormControlWarning');\n\nexport const formControlBinding: any = {\n provide:\nNgControl,\n useExisting: forwardRef(() => FormControlDirective);\n};\n\n/**\n * @description\n * Syncs a\n standalone `FormControl` instance to a form control element.\n * @see [Reactive Forms Guide](guide/reactive-forms)\n * @see `FormControl`\n * @see `AbstractControl`\n * @usageNotes\n * ### Registering a single\n form control\n * The following examples shows how to register a standalone control and set its value.\n *\n * @example forms/ts/simpleFormControl/simple_form_control_example.ts\n region='Component')\n * ### Use with ngModel\n * Support for using the `ngModel` input property and\n `ngModelChange` event with reactive\n * form directives has been deprecated in Angular v6 and will be removed in\n a future version\n * of Angular.\n * Now deprecated:\n * <input [formControl]="control"\n [(ngModel)]="value">\n *\n * This has been deprecated\n for a few reasons. First, developers have found this pattern\n * confusing. It seems like the actual `ngModel`

```



directive is being used, but in fact it's an input/output property named `ngModel` on the reactive form directive that simply approximates (some of) its behavior. Specifically, it allows getting/setting the value and intercepting value events. However, some of `ngModel`'s other features - like delaying updates with `ngModelOptions` or exporting the directive - simply don't work,

which has understandably caused some confusion. In addition, this pattern mixes template-driven and reactive forms strategies, which we generally don't recommend because it doesn't take advantage of the full benefits of either strategy. Setting the value in the template violates the template-agnostic principles behind reactive forms, whereas adding a `FormControl`/`FormGroup` layer in the class removes the convenience of defining forms in the template. To update your code before support is removed, you'll want to decide whether to stick with reactive form directives (and get/set values using reactive forms patterns) or switch over to template-driven directives. After (choice 1 - use reactive forms):

```

<input [formControl]="control">
    this.control.setValue('some value');

```

After (choice 2 - use template-driven forms):

```

<input [(ngModel)]="value">
    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:
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.

```

@NgModule(ReactiveFormsModule) @publicApi @Directive({ selector: '[formControl]',
providers: [formControlBinding], exportAs: 'ngForm' })
export class FormControlDirective extends NgControl
implements OnChanges {
  /** @description Internal reference to the view model value.
  * viewModel: any;
  * @description Tracks
  * the `FormControl` instance bound to the directive.
  * // TODO(issue/24571): remove '!'.
  */
  @Input('formControl') form!: FormControl;
  /** @description Triggers a warning that this input
  * should not be used with reactive forms.
  * @Input('disabled')
  * set isDisabled(isDisabled: boolean) {
  *   ReactiveErrors.disabledAttrWarning();
  * }
  * // 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 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
  * static _ngModelWarningSentOnce = false;
  * @description Instance property used to track whether an ngModel warning has been sent out for this
  * particular
  * FormControlDirective` instance. Used to support warning config of "always".
  * @internal
  * _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);
  * }
  * @description A lifecycle method called when the directive's inputs change. For
  * internal
  * use
  * only.
  * @param changes A object of key/value pairs for the set of changed
  * inputs.
  * ngOnChanges(changes: SimpleChanges): void {
  *   if
  *   (this._isControlChanged(changes)) {
  *     setUpControl(this.form, this);
  *     if (this.control.disabled
  *     && this.valueAccessor !.setDisabledState) {
  *       this.valueAccessor !.setDisabledState !(true);
  *     }
  *     this.form.updateValueAndValidity({ emitEvent: false });
  *   }
  *   if

```

```

(isPropertyUpdated(changes, this.viewModel)) {\n      _ngModelWarning(\n      'formControl',
FormControlDirective, this, this._ngModelWarningConfig);\n      this.form.setValue(this.model);\n      this.viewModel = this.model;\n    }\n  }\n\n  /**\n   * @description\n   *
Returns
  an array that represents the path from the top-level form to this control.\n      * Each index is the string name
of the control on that level.\n      *^/\n      get path(): string[] { return []; }\n      /**\n      *
@param @description\n      * Synchronous validator function composed of all the synchronous validators\n      *
registered with this directive.\n      *^/\n      get validator(): ValidatorFn|null { return
composeValidators(this._rawValidators); }\n      /**\n      * @description\n      * Async validator
function composed of all the async validators registered with this\n      * directive.\n      *^/\n      get
asyncValidator(): AsyncValidatorFn|null {\n      return
composeAsyncValidators(this._rawAsyncValidators);\n    }\n      /**\n      * @description\n
      * The `FormControl` bound to this directive.\n      *^/\n      get control(): FormControl { return this.form; }\n      /**\n      * @description\n
      * Sets the new value for the view model and emits an `ngModelChange` event.\n      *\n      *
@param newValue The new value for the view model.\n      *^/\n      viewToModelUpdate(newValue:
any): void {\n      this.viewModel = newValue;\n      this.update.emit(newValue);\n    }\n      private _isControlChanged(changes: {[key: string]: any}): boolean {\n      return
changes.hasOwnProperty('form');\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, EventEmitter, Inject, Input, OnChanges,
Optional, Output, Self, SimpleChanges, forwardRef} from '@angular/core';\nimport
{FormArray, FormControl, FormGroup} from './model';\nimport {NG_ASYNC_VALIDATORS,
NG_VALIDATORS, Validators} from './validators';\nimport {ControlContainer} from
'./control_container';\nimport {Form} from './form_interface';\nimport {ReactiveErrors} from
'./reactive_errors';\nimport {cleanupControl, composeAsyncValidators, composeValidators, removeDir,
setUpControl, setUpFormContainer, syncPendingControls} from './shared';\nimport {FormControlName} from
'./form_control_name';\nimport {FormArrayName, FormGroupName} from './form_group_name';\n\nexport const
formDirectiveProvider: any = {\n  provide: ControlContainer,\n  useExisting: forwardRef(() =>
FormGroupDirective)\n};\n\n/**\n * @description\n *\n * Binds an existing `FormGroup` to a DOM element.\n *\n
* This directive accepts an existing `FormGroup` instance. It will then use this\n * `FormGroup` instance to match
any child `FormControl`, `FormGroup`,\n * and `FormArray` instances to child `FormControlName`,
`FormGroupName`,\n * and `FormArrayName` directives.\n *\n * @see [Reactive Forms Guide](guide/reactive-
forms)\n * @see `AbstractControl`\n *\n * ### Register Form Group\n *\n * The following example registers a
`FormGroup` with first name and last name controls,\n * and listens for the *ngSubmit* event when the button is
clicked.\n *\n * {@example forms/ts/simpleFormGroup/simple_form_group_example.ts region='Component'}\n *\n
* @ngModule ReactiveFormsModule\n * @publicApi\n */\n@Directive({\n  selector: '[formGroup]',\n  providers:
[formDirectiveProvider],\n  host: {'(submit)': 'onSubmit($event)', '(reset)': 'onReset()'},\n  exportAs:
'ngForm'\n})\nexport class FormGroupDirective extends ControlContainer implements Form,\n  OnChanges {\n
/**\n * @description\n * Reports whether the form submission has been triggered.\n *^/\n public readonly
submitted: boolean = false;\n\n // TODO(issue/24571): remove '!.\n private _oldForm!: FormGroup;\n\n /**\n *
@description\n
      * Tracks the list of added `FormControlName` instances\n      *^/\n directives: FormControlName[] = [];\n      /**\n
      * @description\n      * Tracks the `FormGroup` bound to this directive.\n      *^/\n @Input('formGroup') form:
FormGroup = null !;\n      /**\n      * @description\n      * Emits an event when the form submission has been
triggered.\n      *^/\n @Output() ngSubmit = new EventEmitter();\n      constructor(\n      @Optional() @Self()
@Inject(NG_VALIDATORS) private _validators: any[],\n      @Optional() @Self()
@Inject(NG_ASYNC_VALIDATORS) private _asyncValidators: any[]) {\n      super();\n    }\n      /**\n      *

```

```

@description\n * A lifecycle method called when the directive's inputs change. For internal use only.\n *\n *
@param changes A object of key/value pairs for the set of changed inputs.\n */\n ngOnChanges(changes:
SimpleChanges): void {\n this._checkFormPresent();\n if (changes.hasOwnProperty('form')) {\n
this._updateValidators();\n this._updateDomValue();\n this._updateRegistrations();\n
}\n }\n\n /**\n * @description\n * Returns this directive's instance.\n */\n get formDirective(): Form {
return this; }\n\n /**\n * @description\n * Returns the `FormGroup` bound to this directive.\n */\n get
control(): FormGroup { return this.form; }\n\n /**\n * @description\n * Returns an array representing the path to
this group. Because this directive\n * always lives at the top level of a form, it always an empty array.\n */\n get
path(): string[] { return []; }\n\n /**\n * @description\n * Method that sets up the control directive in this group,
re-calculates its value\n * and validity, and adds the instance to the internal list of directives.\n */\n * @param dir
The `FormControlName` directive instance.\n */\n addControl(dir: FormControlName): FormControl {\n const
ctrl: any = this.form.get(dir.path);\n setUpControl(ctrl, dir);\n ctrl.updateValueAndValidity({ emitEvent:
false});\n this.directives.push(dir);\n
return ctrl;\n }\n\n /**\n * @description\n * Retrieves the `FormControl` instance from the provided
`FormControlName` directive\n */\n * @param dir The `FormControlName` directive instance.\n */\n
getControl(dir: FormControlName): FormControl { return <FormControl>this.form.get(dir.path); }\n\n /**\n *
@description\n * Removes the `FormControlName` instance from the internal list of directives\n */\n * @param
dir The `FormControlName` directive instance.\n */\n removeControl(dir: FormControlName): void {\n
removeDir<FormControlName>(this.directives, dir); }\n\n /**\n * Adds a new `FormGroupName` directive
instance to the form.\n */\n * @param dir The `FormGroupName` directive instance.\n */\n addFormGroup(dir:
FormGroupName): void {\n const ctrl: any = this.form.get(dir.path);\n setUpFormContainer(ctrl, dir);\n
ctrl.updateValueAndValidity({ emitEvent: false});\n }\n\n /**\n * No-op method to remove the form group.\n
*\n * @param
dir The `FormGroupName` directive instance.\n */\n removeFormGroup(dir: FormGroupName): void { }\n\n
/**\n * @description\n * Retrieves the `FormGroup` for a provided `FormGroupName` directive instance\n */\n
* @param dir The `FormGroupName` directive instance.\n */\n getFormGroup(dir: FormGroupName):
FormGroup { return <FormGroup>this.form.get(dir.path); }\n\n /**\n * Adds a new `FormArrayName` directive
instance to the form.\n */\n * @param dir The `FormArrayName` directive instance.\n */\n addFormArray(dir:
FormArrayName): void {\n const ctrl: any = this.form.get(dir.path);\n setUpFormContainer(ctrl, dir);\n
ctrl.updateValueAndValidity({ emitEvent: false});\n }\n\n /**\n * No-op method to remove the form array.\n
*\n * @param dir The `FormArrayName` directive instance.\n */\n removeFormArray(dir: FormArrayName): void
{ }\n\n /**\n * @description\n * Retrieves the `FormArray` for a provided `FormArrayName` directive
instance.\n */\n
*\n * @param dir The `FormArrayName` directive instance.\n */\n getFormArray(dir: FormArrayName):
FormArray { return <FormArray>this.form.get(dir.path); }\n\n /**\n * Sets the new value for the provided
`FormControlName` directive.\n */\n * @param dir The `FormControlName` directive instance.\n * @param
value The new value for the directive's control.\n */\n updateModel(dir: FormControlName, value: any): void {\n
const ctrl = <FormControl>this.form.get(dir.path);\n ctrl.setValue(value);\n }\n\n /**\n * @description\n *
Method called with 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\n /**\n * @internal\n */\n _updateDomValue() {\n
this.directives.forEach(dir => {\n const newCtrl: any = this.form.get(dir.path);\n if (dir.control !== newCtrl)
{\n cleanUpControl(dir.control, dir);\n if (newCtrl) setUpControl(newCtrl, dir);\n (dir as {control:

```



```

[Reactive Forms Guide](guide/reactive-forms)\n * @see `AbstractControl`\n * @usageNotes\n * ###
Example\n * { @example forms/ts/nestedFormArray/nested_form_array_example.ts region='Component' }\n * @ngModule ReactiveFormsModule\n * @publicApi\n * ^\n@Directive({ selector: '[formArrayName]', providers:
[formArrayNameProvider]})\nexport
class FormArrayName extends ControlContainer implements OnInit, OnDestroy {\n /** @internal */\n _parent:
ControlContainer;\n /** @internal */\n _validators: any[];\n /** @internal */\n _asyncValidators: any[];\n
/**\n * @description\n * Tracks the name of the `FormArray` bound to the directive. The name corresponds\n *
to a key in the parent `FormGroup` or `FormArray`.\n * Accepts 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 arrays to be
bound\n * to indices when iterating over arrays in a `FormArray`.\n * ^\n // TODO(issue/24571): remove '!'.\n
@Input('formArrayName') name!: string | number | null;\n\n constructor(\n @Optional() @Host() @SkipSelf()
parent: ControlContainer,\n @Optional() @Self() @Inject(NG_VALIDATORS) validators: any[],\n
@Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: any[]) {\n
super();\n this._parent = parent;\n this._validators = validators;\n this._asyncValidators = asyncValidators;\n
}\n\n /**\n * @description\n * A lifecycle method called when the directive's inputs are initialized. For internal
use only.\n * ^\n * @throws If the directive does not have a valid parent.\n * ^\n ngOnInit(): void {\n
this._checkParentType();\n this.formDirective!.addFormArray(this);\n }\n\n /**\n * @description\n * A
lifecycle method called before the directive's instance is destroyed. For internal use only.\n * ^\n ngOnDestroy():
void {\n if (this.formDirective) {\n this.formDirective.removeFormArray(this);\n }\n }\n\n /**\n *
@description\n * The `FormArray` bound to this directive.\n * ^\n get control(): FormArray { return
this.formDirective!.getFormArray(this); }\n\n /**\n * @description\n * The top-level directive for this group if
present, otherwise null.\n * ^\n get formDirective(): FormGroupDirective|null
{\n return this._parent ? <FormGroupDirective>this._parent.formDirective : null;\n }\n\n /**\n *
@description\n * Returns an array that represents the path from the top-level form to this control.\n * Each index
is the string name of the control on that level.\n * ^\n get path(): string[] {\n return controlPath(this.name == null
? this.name : this.name.toString(), this._parent);\n }\n\n /**\n * @description\n * Synchronous validator function
composed of all the synchronous validators registered with this\n * directive.\n * ^\n get validator():
ValidatorFn|null { return composeValidators(this._validators); }\n\n /**\n * @description\n * Async validator
function composed of all the async validators registered with this directive.\n * ^\n get asyncValidator():
AsyncValidatorFn|null {\n return composeAsyncValidators(this._asyncValidators);\n }\n\n private
_checkParentType(): void {\n if (_hasInvalidParent(this._parent)) {\n ReactiveErrors.arrayParentException();\n
}\n }\n\n\nfunction _hasInvalidParent(parent: ControlContainer): boolean {\n return !(parent instanceof
FormGroupName) && !(parent instanceof FormGroupDirective) &&\n !(parent instanceof
FormArrayName);\n}\n\n"/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * ^\n * Use of this
source code is governed by an MIT-style license that can be\n * found in the LICENSE file at
https://angular.io/license\n * ^\n\nimport { Directive, EventEmitter, Host, Inject, Input, OnChanges, OnDestroy,
Optional, Output, Self, SimpleChanges, SkipSelf, forwardRef } from '@angular/core';\n\nimport { FormControl }
from '../model';\n\nimport { NG_ASYNC_VALIDATORS, NG_VALIDATORS } from '../validators';\n\nimport
{ AbstractFormGroupDirective } from './abstract_form_group_directive';\n\nimport { ControlContainer } from
'./control_container';\n\nimport { ControlValueAccessor, NG_VALUE_ACCESSOR } from
'./control_value_accessor';\n\nimport { NgControl } from './ng_control';\n\nimport { ReactiveErrors }
from './reactive_errors';\n\nimport { _ngModelWarning, composeAsyncValidators, composeValidators, controlPath,
isPropertyUpdated, selectValueAccessor } from './shared';\n\nimport { AsyncValidator, AsyncValidatorFn, Validator,
ValidatorFn } from '../validators';\n\nimport { NG_MODEL_WITH_FORM_CONTROL_WARNING } from
'./form_control_directive';\n\nimport { FormGroupDirective } from './form_group_directive';\n\nimport
{ FormArrayName, FormGroupName } from './form_group_name';\n\nexport const controlNameBinding: any = {\n
provide: NgControl,\n useExisting: forwardRef(() => FormControlName)\n};\n\n/**\n * @description\n * Syncs a
`FormControl` in an existing `FormGroup` to a form control\n * element by name.\n * ^\n * @see [Reactive Forms

```

Guide](guide/reactive-forms)\n \* @see `FormControl`\n \* @see `AbstractControl`\n \* \n \* @usageNotes\n \* \n \* ### Register `FormControl` within a group\n \* \n \* The following example shows how to register multiple form controls within a form group\n \* and set their value.\n \* \n \* { @example forms/ts/simpleFormGroup/simple\_form\_group\_example.ts region='Component'}\n \* \n \* To see `formControlName` examples with different form control types, see:\n \* \n \* \* Radio buttons: `RadioControlValueAccessor`\n \* \* Selects: `SelectControlValueAccessor`\n \* \* ### Use with ngModel\n \* \n \* Support for using the `ngModel` input property and `ngModelChange` event with reactive\n \* form directives has been deprecated in Angular v6 and will be removed in a future\n \* version of Angular.\n \* \n \* Now deprecated:\n \* \n \* ```html\n \* <form [formGroup]="form">\n \* <input formControlName="first" [(ngModel)]="value">\n \* </form>\n \* ```\n \* \n \* `this.value = 'some value';`\n \* \n \* This has been deprecated for a few reasons. First, developers have found this pattern\n \* confusing. It seems like the actual `ngModel` directive is being used, but in fact it's\n \* 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 \* \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 \* \n \* To update your code before support is removed, you'll want to decide whether to stick with\n \* reactive form directives (and get/set values using reactive forms patterns) or switch over to\n \* template-driven directives.\n \* \n \* After (choice 1 - use reactive forms):\n \* \n \* ```html\n \* <form [formGroup]="form">\n \* <input formControlName="first">\n \* </form>\n \* ```\n \* \n \* `this.form.get('first').setValue('some value');`\n \* \n \* After (choice 2 - use template-driven forms):\n \* \n \* ```html\n \* <input [(ngModel)]="value">\n \* ```\n \* \n \* `this.value = 'some value';`\n \* \n \* By default, when you use this pattern, you will see a deprecation warning once in dev\n \* mode. You can choose to silence this warning by providing a config for\n \* `ReactiveFormsModule` at import time:\n \* \n \* ```ts\n \* imports: [\n \* ReactiveFormsModule.withConfig({ warnOnNgModelWithFormControl: 'never'})\n \* ]\n \* ```\n \* \n \* Alternatively, you can choose to surface a separate warning for each instance of this\n \* pattern 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.\n \* \n \* @ngModule ReactiveFormsModule\n \* @publicApi\n \* \n \* @Directive({ selector: '[formControlName]', providers: [controlNameBinding] })\n \* export class FormControlName extends NgControl implements OnChanges, OnDestroy {\n \* private \_added = false;\n \* /\*\*\n \* @description\n \* Internal reference to the view model value.\n \* @internal\n \* \n \* viewModel: any;\n \* \n \* /\*\*\n \* @description\n \* Tracks the `FormControl` instance bound to the directive.\n \* \n \* // TODO(issue/24571): remove '!.\n \* readonly control!: FormControl;\n \* \n \* /\*\*\n \* @description\n \* Tracks the name of the `FormControl` bound to the directive. The name corresponds\n \* to a key in the parent `FormGroup` or `FormArray`.\n \* \n \* Accepts a name as a string or a number.\n \* \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 \* \n \* // TODO(issue/24571): remove '!.\n \* @Input('formControlName') name!: string\n \* \n \* | number | null;\n \* \n \* /\*\*\n \* @description\n \* Triggers a warning that this input should not be used with reactive forms.\n \* \n \* @Input('disabled')\n \* set isDisabled(isDisabled: boolean) { ReactiveErrors.disabledAttrWarning(); }\n \* \n \* // TODO(kara): remove next 4 properties once deprecation period is over\n \* \n \* /\*\* @deprecated as of v6\n \* \n \* @Input('ngModel') model: any;\n \* \n \* /\*\* @deprecated as of v6\n \* \n \* @Output('ngModelChange') update = new EventEmitter();\n \* \n \* /\*\*\n \* @description\n \* Static property used to track whether any ngModel warnings have been sent across\n \* all instances of FormControlName. Used to support warning config of `"once"`. \n \* \n \* \n \* @internal\n \* \n \* static \_ngModelWarningSentOnce = false;\n \* \n \* /\*\*\n \* @description\n \* 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
    * ^n _ngModelWarningSent
    = false;
    constructor(
        @Optional() @Host() @SkipSelf() parent: ControlContainer,
        @Optional()
        @Self() @Inject(NG_VALIDATORS) validators: Array<Validator|ValidatorFn>,
        @Optional() @Self()
        @Inject(NG_ASYNC_VALIDATORS) asyncValidators: Array<AsyncValidator|AsyncValidatorFn>,
        @Optional() @Self() @Inject(NG_VALUE_ACCESSOR) valueAccessors: ControlValueAccessor[],
        @Optional() @Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING) private _ngModelWarningConfig:
        string|
        null) {
        super();
        this._parent = parent;
        this._rawValidators = validators || [];
        this._rawAsyncValidators = asyncValidators || [];
        this.valueAccessor = selectValueAccessor(this,
        valueAccessors);
    }
    /**
     * @description
     * A lifecycle method called when the directive's inputs change.
     For internal use only.
     * @param changes A object of key/value pairs for the set of changed inputs.
     * ^n
     ngOnChanges(changes: SimpleChanges) {
        if (!this._added)
            this._setUpControl();
        if (isPropertyUpdated(changes, this.viewModel)) {
            _ngModelWarning('formControlName', FormControlName, this, this._ngModelWarningConfig);
            this.viewModel = this.model;
            this.formDirective.updateModel(this, this.model);
        }
    }
    /**
     * @description
     * Lifecycle method called before the directive's instance is destroyed. For internal use only.
     * ^n
     ngOnDestroy(): void {
        if (this.formDirective) {
            this.formDirective.removeControl(this);
        }
    }
    /**
     * @description
     * Sets the new value for the view model and emits an `ngModelChange` event.
     * @param newValue The new value for the view model.
     * ^n
     viewToModelUpdate(newValue: any): void {
        this.viewModel = newValue;
        this.update.emit(newValue);
    }
    /**
     * @description
     * Returns an array
     that represents the path from the top-level form to this control.
     * Each index is the string name of the control on
     that level.
     * ^n
     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.
     * ^n
     get formDirective(): any {
        return this._parent ? this._parent.formDirective : null;
    }
    /**
     * @description
     * Synchronous validator function composed of all the synchronous validators
     * registered with
     this directive.
     * ^n
     get validator(): ValidatorFn|null {
        return composeValidators(this._rawValidators);
    }
    /**
     * @description
     * Async validator function composed of all the async validators registered with this
     * directive.
     * ^n
     get asyncValidator(): AsyncValidatorFn {
        return
        composeAsyncValidators(this._rawAsyncValidators);
    }
    private _checkParentType(): void {
        if
        (!(this._parent instanceof FormGroupName) &&
        this._parent instanceof AbstractFormGroupDirective) {
            ReactiveErrors.ngModelGroupException();
        } else if
        (!(this._parent instanceof FormGroupName) &&
        !(this._parent instanceof FormGroupDirective) &&
        !(this._parent instanceof FormGroupArrayName)) {
            ReactiveErrors.controlParentException();
        }
    }
    private _setUpControl() {
        this._checkParentType();
        (this as {control: FormControl}).control = this.formDirective.addControl(this);
        if (this.control.disabled &&
        this.valueAccessor!.setDisabledState) {
            this.valueAccessor!.setDisabledState!(true);
        }
        this._added =
        true;
    }
}
    /**
     * @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
     * ^n
     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
     * ^n
     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
     * @Directive({
     * selector:
     '[customValidator]',
     * providers: [
     {provide: NG_VALIDATORS, useExisting: CustomValidatorDirective, multi:
     true}
     ]
     * })
     * class CustomValidatorDirective implements Validator {
     * validate(control: AbstractControl):
     ValidationErrors|null {
     * return {'custom': true};
     * }
     * }
     * @publicApi
     * ^n
     export interface

```

```

Validator {\n /**\n * @description\n * Method that performs synchronous validation against
the provided control.\n *\n * @param control The control to validate against.\n *\n * @returns A map of
validation errors if validation fails,\n * otherwise null.\n */\n validate(control: AbstractControl):
ValidationErrors|null;\n\n /**\n * @description\n * Registers a callback function to call when the validator inputs
change.\n *\n * @param fn The callback function\n */\n registerOnValidatorChange?(fn: () => void):
void;\n}\n\n /**\n * @description\n * An interface implemented by classes that perform asynchronous validation.\n
*\n * @usageNotes\n *\n * ### Provide a custom async validator directive\n *\n * The following example
implements the `AsyncValidator` interface to create an\n * async validator directive with a custom error key.\n *\n *
```\ntypescript\n * import { of as observableOf } from 'rxjs';\n *\n * @Directive({\n * selector:
'[customAsyncValidator]',\n * providers: [{provide: NG_ASYNC_VALIDATORS, useExisting:
CustomAsyncValidatorDirective,\n * multi: true}]\n * })\n * class CustomAsyncValidatorDirective implements AsyncValidator {\n *
validate(control: AbstractControl): Observable<ValidationErrors|null> {\n * return observableOf({'custom':
true});\n * }\n * }\n * ```\n *\n * @publicApi\n */\n\n export interface AsyncValidator extends Validator {\n /**\n *
@description\n * Method that performs async validation against the provided control.\n *\n * @param control
The control to validate against.\n *\n * @returns A promise or observable that resolves a map of validation
errors\n * if validation fails, otherwise null.\n */\n validate(control: AbstractControl):\n Promise<ValidationErrors|null>|Observable<ValidationErrors|null>;\n}\n\n /**\n * @description\n * Provider which
adds `RequiredValidator` to the `NG_VALIDATORS` multi-provider list.\n */\n\n export const
REQUIRED_VALIDATOR: StaticProvider = {\n provide: NG_VALIDATORS,\n useExisting: forwardRef(() =>
RequiredValidator),\n multi: true\n};\n\n /**\n * @description\n * Provider which adds `CheckboxRequiredValidator` to the `NG_VALIDATORS` multi-provider
list.\n */\n\n export const CHECKBOX_REQUIRED_VALIDATOR: StaticProvider = {\n provide:
NG_VALIDATORS,\n useExisting: forwardRef(() => CheckboxRequiredValidator),\n multi: true\n};\n\n /**\n * @description\n * A directive that adds the `required` validator to any controls marked with the\n * `required`
attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.\n *\n * @see [Form
Validation](guide/form-validation)\n *\n * @usageNotes\n *\n * ### Adding a required validator using template-
driven forms\n *\n * ```\n * <input name="fullName" ngModel required>\n * ```\n *\n * @ngModule
FormsModule\n *\n * @ngModule ReactiveFormsModule\n *\n * @publicApi\n */\n\n @Directive({\n selector:\n ':not([type=checkbox])[required][formControlName],:not([type=checkbox])[required][formControl],:not([type=checkbox])[required][ngModel]',\n providers: [REQUIRED_VALIDATOR],\n host: {[attr.required]: 'required ? \'"\n * `required` : null'}\n})\n\n export class RequiredValidator implements Validator {\n //
TODO(issue/24571): remove '!'\n private _required!: boolean;\n // TODO(issue/24571): remove '!'\n private
_onChange!: () => void;\n\n /**\n * @description\n * Tracks changes to the required attribute bound to this
directive.\n *\n * @Input()\n get required(): boolean|string { return this._required; }\n\n set required(value:
boolean|string) {\n this._required = value != null && value !== false && `${value}` !== 'false';\n if
(this._onChange) this._onChange();\n }\n\n /**\n * @description\n * Method that validates whether the control
is empty.\n *\n * Returns the validation result if enabled, otherwise null.\n */\n validate(control: AbstractControl):
ValidationErrors|null {\n return this.required ? Validators.required(control) : null;\n }\n\n /**\n *
@description\n * Registers a callback function to call when the validator inputs
change.\n *\n * @param fn The callback function\n */\n registerOnValidatorChange(fn: () => void): void {\n
this._onChange = fn;\n }\n}\n\n /**\n * A Directive that adds the `required` validator to checkbox controls marked
with the\n * `required` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.\n *\n *
@see [Form Validation](guide/form-validation)\n *\n * @usageNotes\n *\n * ### Adding a required checkbox
validator using template-driven forms\n *\n * The following example shows how to add a checkbox required
validator to an input attached to an ngModel binding.\n *\n * ```\n * <input type="checkbox" name="active"\n * ngModel required>\n * ```\n *\n * @publicApi\n * @ngModule FormsModule\n * @ngModule
ReactiveFormsModule\n */\n\n @Directive({\n selector:\n

```



```



```

```

/**\n * @description\n * Method that validates whether the
value meets a minimum length\n * requirement. Returns the validation result if enabled, otherwise null.\n *^\n
validate(control: AbstractControl): ValidationErrors|null {\n return this.minLength == null ? null :
this._validator(control);\n }\n\n /**\n * @description\n * Registers a callback function to call when the validator
inputs change.\n *^\n * @param fn The callback function\n *^\n registerOnValidatorChange(fn: () => void): void
{ this._onChange = fn; }\n\n private _createValidator(): void {\n this._validator = Validators.minLength(\n
typeof this.minLength === 'number' ? this.minLength : parseInt(this.minLength, 10));\n }\n}\n\n/**\n *
@description\n * Provider which adds `MaxLengthValidator` to the `NG_VALIDATORS` multi-provider list.\n
*^\n\nexport const MAX_LENGTH_VALIDATOR: any = {\n provide: NG_VALIDATORS,\n useExisting:
forwardRef(() => MaxLengthValidator),\n multi: true\n};\n}\n\n/**\n * A directive that adds max length validation to
controls
marked with the\n * `maxlength` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider
list.\n *^\n * @see [Form Validation](guide/form-validation)\n *^\n * @usageNotes\n *^\n * ### Adding a maximum
length validator\n *^\n * The following example shows how to add a maximum length validator to an input attached
to an\n * ngModel binding.\n *^\n * ```html\n * <input name="firstName" ngModel maxlength="25">\n * ```\n *^\n
* @ngModule ReactiveFormsModule\n * @ngModule FormsModule\n * @publicApi\n *^\n\n@Directive({\n
selector: '[maxlength][formControlName],[maxlength][formControl],[maxlength][ngModel]',\n providers:
[MAX_LENGTH_VALIDATOR],\n host: {'[attr.maxlength]': 'maxlength ? maxlength : null'}\n})\n\nexport class
MaxLengthValidator implements Validator,\n OnChanges {\n // TODO(issue/24571): remove '!.\n private
_validator !: ValidatorFn;\n // TODO(issue/24571): remove '!.\n private _onChange !: () => void;\n\n /**\n *
@description\n * Tracks changes
to the the maximum length bound to this directive.\n *^\n // TODO(issue/24571): remove '!.\n @Input()
maxlength !: string | number;\n\n /**\n * @description\n * A lifecycle method called when the directive's inputs
change. For internal use\n * only.\n *^\n * @param changes A object of key/value pairs for the set of changed
inputs.\n *^\n ngOnChanges(changes: SimpleChanges): void {\n if ('maxlength' in changes) {\n
this._createValidator();\n if (this._onChange) this._onChange();\n }\n }\n\n /**\n * @description\n *
Method that validates whether the value exceeds\n * the maximum length requirement.\n *^\n validate(control:
AbstractControl): ValidationErrors|null {\n return this.maxlength != null ? this._validator(control) : null;\n
}\n\n /**\n * @description\n * Registers a callback function to call when the validator inputs change.\n *^\n *
@param fn The callback function\n *^\n registerOnValidatorChange(fn: () => void): void
{ this._onChange = fn; }\n\n private _createValidator(): void {\n this._validator = Validators.maxLength(\n
typeof this.maxlength === 'number' ? this.maxlength : parseInt(this.maxlength, 10));\n }\n}\n\n/**\n *
@description\n * Provider which adds `PatternValidator` to the `NG_VALIDATORS` multi-provider list.\n
*^\n\nexport const PATTERN_VALIDATOR: any = {\n provide: NG_VALIDATORS,\n useExisting: forwardRef(()
=> PatternValidator),\n multi: true\n};\n}\n\n/**\n * @description\n * A directive that adds regex pattern validation
to controls marked with the\n * `pattern` attribute. The regex must match the entire control value.\n * The directive
is provided with the `NG_VALIDATORS` multi-provider list.\n *^\n * @see [Form Validation](guide/form-
validation)\n *^\n * @usageNotes\n *^\n * ### Adding a pattern validator\n *^\n * The following example shows how
to add a pattern validator to an input attached to an\n * ngModel binding.\n *^\n * ```html\n * <input
name="firstName" ngModel
pattern="[a-zA-Z]*">\n * ```\n *^\n
* @ngModule ReactiveFormsModule\n * @ngModule FormsModule\n * @publicApi\n *^\n\n@Directive({\n
selector:
'[pattern][formControlName],[pattern][formControl],[pattern][ngModel]',\n providers:
[PATTERN_VALIDATOR],\n host: {'[attr.pattern]': 'pattern ? pattern : null'}\n})\n\nexport class PatternValidator
implements Validator,\n OnChanges {\n // TODO(issue/24571): remove '!.\n private _validator !: ValidatorFn;\n
// TODO(issue/24571): remove '!.\n private _onChange !: () => void;\n\n /**\n * @description\n * Tracks
changes to the pattern bound to this directive.\n *^\n // TODO(issue/24571): remove '!.\n @Input() pattern !:
string | RegExp;\n\n /**\n * @description\n * A lifecycle method called when the directive's inputs change. For

```

```

internal use\n * only.\n *\n * @param changes A object of key/value pairs for the set of changed inputs.\n *\n ngOnChanges(changes: SimpleChanges): void {\n   if ('pattern' in changes)\n     {\n       this._createValidator();\n       if (this._onChange) this._onChange();\n     }\n }\n\n /**\n * @description\n * Method that validates whether the value matches the\n * the pattern requirement.\n *\n validate(control:\n AbstractControl): ValidationErrors|null {\n   return this._validator(control);\n }\n\n /**\n * @description\n * Registers\n a callback function to call when the validator inputs change.\n *\n * @param fn The callback function\n *\n registerOnValidatorChange(fn: () => void): void {\n   this._onChange = fn;\n }\n\n private _createValidator(): void {\n   this._validator = Validators.pattern(this.pattern);\n }\n\n",/**\n * @license\n * Copyright Google Inc. All Rights\n Reserved.\n *\n * Use of this source code is governed by an MIT-style license that can be\n * found in the\n LICENSE file at https://angular.io/license\n *\n\nimport {NgModule, Type} from '@angular/core';\nimport\n {CheckboxControlValueAccessor} from './directives/checkbox_value_accessor';\nimport\n {DefaultValueAccessor} from './directives/default_value_accessor';\nimport {NgControlStatus,\n NgControlStatusGroup} from './directives/ng_control_status';\nimport {NgForm} from\n './directives/ng_form';\nimport {NgModel} from './directives/ng_model';\nimport {NgModelGroup} from\n './directives/ng_model_group';\nimport {NgNoValidate} from './directives/ng_no_validate_directive';\nimport\n {NumberValueAccessor} from './directives/number_value_accessor';\nimport {RadioControlValueAccessor} from\n './directives/radio_control_value_accessor';\nimport {RangeValueAccessor} from\n './directives/range_value_accessor';\nimport {FormControlDirective} from\n './directives/reactive_directives/form_control_directive';\nimport {FormControlName} from\n './directives/reactive_directives/form_control_name';\nimport {FormGroupDirective} from\n './directives/reactive_directives/form_group_directive';\nimport {FormArrayName, FormGroupName} from\n './directives/reactive_directives/form_group_name';\nimport {NgSelectOption, SelectControlValueAccessor}\n from './directives/select_control_value_accessor';\nimport {NgSelectMultipleOption,\n SelectMultipleControlValueAccessor} from './directives/select_multiple_control_value_accessor';\nimport\n {CheckboxRequiredValidator, EmailValidator, MaxLengthValidator, MinLengthValidator, PatternValidator,\n RequiredValidator} from './directives/validators';\n\n\nexport {CheckboxControlValueAccessor} from\n './directives/checkbox_value_accessor';\nexport {ControlValueAccessor} from\n './directives/control_value_accessor';\nexport {DefaultValueAccessor} from\n './directives/default_value_accessor';\nexport {NgControl} from './directives/ng_control';\nexport {NgControlStatus,\n NgControlStatusGroup} from './directives/ng_control_status';\nexport {NgForm} from\n './directives/ng_form';\nexport {NgModel} from './directives/ng_model';\nexport {NgModelGroup} from\n './directives/ng_model_group';\nexport {NumberValueAccessor} from './directives/number_value_accessor';\nexport\n {RadioControlValueAccessor}\n from './directives/radio_control_value_accessor';\nexport {RangeValueAccessor} from\n './directives/range_value_accessor';\nexport {FormControlDirective,\n NG_MODEL_WITH_FORM_CONTROL_WARNING} from\n './directives/reactive_directives/form_control_directive';\nexport {FormControlName} from\n './directives/reactive_directives/form_control_name';\nexport {FormGroupDirective} from\n './directives/reactive_directives/form_group_directive';\nexport {FormArrayName, FormGroupName} from\n './directives/reactive_directives/form_group_name';\nexport {NgSelectOption, SelectControlValueAccessor} from\n './directives/select_control_value_accessor';\nexport {NgSelectMultipleOption,\n SelectMultipleControlValueAccessor} from './directives/select_multiple_control_value_accessor';\n\n\nexport const\n SHARED_FORM_DIRECTIVES: Type<any>[] = [\n  NgNoValidate,\n  NgSelectOption,\n  NgSelectMultipleOption,\n  DefaultValueAccessor,\n  NumberValueAccessor,\n  RangeValueAccessor,\n  CheckboxControlValueAccessor,\n  SelectControlValueAccessor,\n  SelectMultipleControlValueAccessor,\n  RadioControlValueAccessor,\n  NgControlStatus,\n  NgControlStatusGroup,\n  RequiredValidator,\n  MinLengthValidator,\n  MaxLengthValidator,\n  PatternValidator,\n  CheckboxRequiredValidator,\n  EmailValidator,\n];\n\n\nexport const

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TEMPLATE_DRIVEN_DIRECTIVES: Type<any>[] = [NgModel, NgModelGroup, NgForm];\n\nexport const
REACTIVE_DRIVEN_DIRECTIVES: Type<any>[] =\n  [FormControlDirective, FormGroupDirective,
FormControlName, FormGroupName, FormArrayName];\n\n/**\n * Internal module used for sharing directives
between FormsModule and ReactiveFormsModule\n */\n@NgModule({\n  declarations:
SHARED_FORM_DIRECTIVES,\n  exports: SHARED_FORM_DIRECTIVES,\n})\nexport class
ÉµInternalFormsSharedModule {\n}\n\nexport {ÉµInternalFormsSharedModule as
InternalFormsSharedModule};\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 {Injectable} from '@angular/core';\n\nimport {AsyncValidatorFn,
ValidatorFn} from './directives/validators';\n\nimport {AbstractControl, AbstractControlOptions, FormArray,
FormControl, FormGroup, FormHooks} from './model';\n\nfunction isAbstractControlOptions(options:
AbstractControlOptions | {[key: string]: any}):\n  options is AbstractControlOptions {\n  return
(<AbstractControlOptions>options).asyncValidators !== undefined ||\n  (<AbstractControlOptions>options).validators !== undefined ||\n  (<AbstractControlOptions>options).updateOn
!== undefined;\n}\n\n/**\n * @description\n * Creates an `AbstractControl` from a user-specified configuration.\n
*\n * The `FormBuilder` provides syntactic sugar that shortens creating instances of a `FormControl`,\n *
`FormGroup`, or `FormArray`. It reduces the amount of boilerplate needed to build complex\n * forms.\n */\n
*\n * @see [Reactive Forms Guide](/guide/reactive-forms)\n */\n * @publicApi\n
*/\n\n@Injectable()\nexport class FormBuilder {\n  /**\n   * @description\n   * Construct a new `FormGroup`
instance.\n   *\n   * @param controlsConfig A collection of child controls. The key for each child is the name\n
   * under which it is registered.\n   *\n   * @param options Configuration options object for the `FormGroup`. The
object can\n   * have two shapes:\n   *\n   * 1) `AbstractControlOptions` object (preferred), which consists of:\n
   * *\n   * `validators`: A synchronous validator function, or an array of validator functions\n   * *\n   * `asyncValidators`: A single
async validator or array of async validator functions\n   * *\n   * `updateOn`: The event upon which the control should be
updated (options: 'change' | 'blur' |\n   * submit')\n   *\n   * 2) Legacy configuration object, which consists of:\n
   * *\n   * `validator`: A synchronous validator function, or an array of validator functions\n   * *\n   * `asyncValidator`: A single
async validator or array of async validator functions\n   *\n
   */\n   *\n   * @group(\n     controlsConfig: {[key: string]: any},\n     options: AbstractControlOptions|{[key: string]:
any}|null = null): FormGroup {\n     const controls = this._reduceControls(controlsConfig);\n     let validators:
ValidatorFn|ValidatorFn[]|null = null;\n     let asyncValidators: AsyncValidatorFn|AsyncValidatorFn[]|null = null;\n
     let updateOn: FormHooks|undefined = undefined;\n     if (options != null) {\n       if
(isAbstractControlOptions(options)) {\n         // `options` are `AbstractControlOptions`\n         validators =
options.validators != null ? options.validators : null;\n         asyncValidators = options.asyncValidators != null ?
options.asyncValidators : null;\n         updateOn = options.updateOn != null ? options.updateOn : undefined;\n       }
else {\n         // `options` are legacy form group options\n         validators = options['validator'] != null ?
options['validator'] : null;\n         asyncValidators = options['asyncValidator'] != null ? options['asyncValidator']
:\n         null;\n       }\n     }\n     return new FormGroup(controls, {asyncValidators, updateOn, validators});\n   }
}\n\n /**\n   * @description\n   * Construct a new `FormControl` with the given state, validators and options.\n
   *\n   * @param formState Initializes the control with an initial state value, or\n   * with an object that contains both a value and a
disabled status.\n   *\n   * @param validatorOrOpts A synchronous validator function, or an array of\n   * such
functions, or an `AbstractControlOptions` object that contains\n   * validation functions and a validation trigger.\n
   *\n   * @param asyncValidator A single async validator or array of async validator\n   * functions.\n   *\n
   */\n   *\n   * @usageNotes\n   *\n   * ### Initialize a control as disabled\n   *\n   * The following example returns a control with
an initial value in a disabled state.\n   *\n   * <code-example
path=\"forms/ts/formBuilder/form_builder_example.ts\" region=\"disabled-control\">\n   * </code-example>\n
   */\n   *\n   * @group(\n     formState: any, validatorOrOpts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,\n
     asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[]|null): FormControl {\n     return new
FormControl(formState, validatorOrOpts, asyncValidator);\n   }
}\n\n /**\n   * Constructs a new `FormArray` from

```

the given array of configurations, validators and options. @param controlsConfig An array of child controls or control configs. Each child control is given an index when it is registered. @param validatorOrOpts A synchronous validator function, or an array of such functions, or an `AbstractControlOptions` object that contains validation functions and a validation trigger. @param asyncValidator A single async validator or array of async validator functions. array(controlsConfig: any[], validatorOrOpts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null, asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[]|null): FormArray {const controls = controlsConfig.map(c => this.\_createControl(c)); return new FormArray(controls, validatorOrOpts, asyncValidator);}

@internal \_reduceControls(controlsConfig: {[k: string]: any}): {[key: string]: AbstractControl} {const controls: {[key: string]: AbstractControl} = {}; Object.keys(controlsConfig).forEach(controlName => {controls[controlName] = this.\_createControl(controlsConfig[controlName]);}); return controls;}

@internal \_createControl(controlConfig: any): AbstractControl {if (controlConfig instanceof FormControl || controlConfig instanceof FormGroup || controlConfig instanceof FormArray) {return controlConfig;} else if (Array.isArray(controlConfig)) {const value = controlConfig[0]; const validator: ValidatorFn = controlConfig.length > 1 ? controlConfig[1] : null; const asyncValidator: AsyncValidatorFn = controlConfig.length > 2 ? controlConfig[2] : null; return this.control(value, validator, asyncValidator);} else {return this.control(controlConfig);}}

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Entry point for all public APIs of the common package. @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>

import {Version} from '@angular/core'; @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 [Forms](guide/reactive-forms) @publicApi @ngModule({declarations: [REACTIVE\_DRIVEN\_DIRECTIVES], providers: [FormBuilder, RadioControlRegistry], exports: [InternalFormsSharedModule, REACTIVE\_DRIVEN\_DIRECTIVES]}) @export class ReactiveFormsModule {}

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: {warnOnNgModelWithFormControl: 'never' | 'once' | 'always'}): ModuleWithProviders<ReactiveFormsModule> {return {ngModule: ReactiveFormsModule, providers: [{provide: NG\_MODEL\_WITH\_FORM\_CONTROL\_WARNING, useValue: opts.warnOnNgModelWithFormControl}];}}

Generated bundle index. Do not edit. @export \* from './index'; @export {InternalFormsSharedModule as Éµangular\_packages\_forms\_forms\_d, REACTIVE\_DRIVEN\_DIRECTIVES as Éµangular\_packages\_forms\_forms\_c, SHARED\_FORM\_DIRECTIVES

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AAW,CAAC,CACJvB,QAAS8c,GACTsE,SAAUnN,EA AKoN,iCAKTJ,EA AwBnjB,EA AW,CACrD7B,EA AKmk  
B,SAAS,CACVC,aAAc,CAACH,IACf3e,UAAW,CAAC+e,GAAa5W,GACzBjO,QAAS,CAAC0kB,GAA4BD,OA  
E3Cc,GA5BiC;;;;;;;AA6DxCv1B,EA AQ+X,gBA AkBA,GAC1B/X,EA AQqH,yBAA2BA,EACnCrH,EA  
Qsf,2BAA6BA,GACrCtf,EA AQmG,wBAA0BA,EACICnG,EA AQ0E,6BAA+BA,EACvC1E,EA AQqjB,0BAA4BA  
,GACpCrjB,EA AQ6I,iBA AmBA,EAC3B7I,EA AQkG,qBA AuBA,EAC/BIG,EA AQyjB,eAAiBA,GACzBzjB,EA  
Q6a,UAYA,GACpB7a,EA AQ6iB,cAAgBA,GACxB7iB,EA AQ6kB,YAAcA,GACtB7kB,EA AQ0b,YAAcA,GAC  
tB1b,EA AQuhB,qBA AuBA,GAC/BvhB,EA AQ+iB,gBA AkBA,GAC1B/iB,EA AQ2a,UAYA,GACpB3a,EA AQ4h  
B,mBAAqBA,GAC7B5hB,EA AQ0iB,cAAgBA,GACxB1iB,EA AQs1B,YAAcA,GACtBt1B,EA AQkkB,mBAAqBA  
,GAC7BlkB,EA AQ4jB,mBAAqBA,GAC7B5jB,EA AQwK,oBAAsBA,EAC9BxK,EA AQkC,cAAgBA,EACxBvK,  
EA AQoE,kBA AoBA,EAC5BpE,EA AQiJ,UAYA,EACpBjJ,EA AQmK,gBA AkBA,EAC1BnK,EA AQqK,qBA Au  
BA,EAC/BrK,EA AQ4d,OAASA,GACjB5d,EA AQqgB,QA AU,GACIBrgB,EA AQigB,aAAeA,GACvBjgB,EA  
AQkS,eAAiBA,EACzBIS,EA AQ8N,oBAAsBA,EAC9B9N,EA AQqkB,iBA AmBA,GAC3BrkB,EA AQgO,0BAA4B  
A,EACpChO,EA AQ0P,mBAAqBA,EAC7B1P,EA AQulB,oBAAsBA,GAC9Bv1B,EA AQmjB,kBA AoBA,GAC5Bn  
jB,EA AQwQ,2BAA6BA,EACrCxQ,EA AQyS,mCAAqCA,GAC7CzS,EA AQo1B,QA AU,GACIBplB,EA AQ0K,  
WAAaA,EACrB1K,EA AQ0kB,2BAA6BA,GACrC1kB,EA AQmhB,cAAgBA,GACxBnhB,EA AQwT,wBAA0BA,

GAC1CxT,EAAQ6lB,gCAAkCtB,GAC1CvkB,EAAQ8lB,gCAAkCtB,GAC1CxB,EAAQ+lB,iCAAmC3C,GAC3C  
pjB,EAAQgmB,iCAAmCxC,GAC3CxB,EAAQimB,iCAAmCtC,GAC3C3jB,EAAQkmB,iCAAmCjC,GAC3CjkB,  
EAAQmmB,iCAAmC/B,GAC3CpkB,EAAQomB,gCAAkC3B,GAC1CzkB,EAAQqmB,gCAAkC3B,GAC1C1kB,E  
AAQsmB,gCAAkChiB,EAC1CtE,EAAQumB,gCAAkCtG,EAC1CjG,EAAQwmB,gCAAkChd,EAC1CxJ,EAAQy  
mB,gCAAkC9c,EAC1C3J,EAAQ0mB,gCAAkC/I,GAC1C3d,EAAQ2mB,gCAAkCvG,GAC1CpgB,EAAQ4mB,gC  
AAkC5G,GAC1ChgB,EAAQ6mB,gCAAkChZ,EAC1C7N,EAAQ8mB,gCAAkC/Y,EAC1C/N,EAAQ+mB,gCAAk  
C9Y,EAC1CjO,EAAQgnB,gCAAkCvX,EAC1CzP,EAAQinB,gCAAkC5F,GAC1CrhB,EAAQknB,gCAAkC5F,GA  
C1CthB,EAAQmnB,gCAAkCrE,GAC1C9iB,EAAQonB,gCAAkCzF,GAC1C3hB,EAAQqnB,gCAAkC5E,GAC1C  
ziB,EAAQsnB,gCAAkC1E,GAC1C5iB,EAAQunB,gCAAkChX,EAC1CvQ,EAAQwnB,gCAAkChV,EAC1CxS,E  
AAQynB,gCAAkCjU,GAC1CxT,EAAQ0nB,gCAAkCvG,GAC1CnhB,EAAQ2nB,gCAAkCzE,GAElC1iB,OAAO  
+B,eAAe/C,EAAS,aAAc,CAAE6D,OAAO","sourcesContent":["/\*\*\n

```
* @license Angular v9.0.7\n * (c) 2010-2020 Google LLC. https://angular.io\n * License: MIT\n *^\n\n(function  
(global, factory) {\n  typeof exports === 'object' && typeof module !== 'undefined' ? factory(exports,  
require('@angular/core'), require('@angular/common'), require('rxjs'), require('rxjs/operators')) :\n  typeof define === 'function' && define.amd ? define('@angular/forms', ['exports', '@angular/core', '@angular/common', 'rxjs',  
'rxjs/operators'], factory) :\n  (global = global || self, factory((global.ng = global.ng || {}), global.ng.forms = {}),  
global.ng.core, global.ng.common, global.rxs, global.rxs.operators));\n})(this, (function (exports, core, common,  
rxjs, operators) { 'use strict';\n  /*!
```

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\*\*\*\*\* \*/\r\n /\* global

```
Reflect, Promise *\r\n\r\n var 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\n function __extends(d,  
b) {\r\n  extendStatics(d, b);\r\n  function __() { this.constructor = d; }\r\n  d.prototype = b === null ?  
Object.create(b) : (__proto__ = b.prototype, new __());\r\n  }\r\n\r\n 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\n 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\n 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\n function  
__param(paramIndex, decorator) {\r\n  return function (target, key) { decorator(target, key, paramIndex); }\r\n}
```



```

function __metadata(metadataKey, metadataValue) {
  if (typeof Reflect === "object" &&
  typeof Reflect.metadata === "function") return Reflect.metadata(metadataKey, metadataValue);
}

function __awaiter(thisArg, _arguments, P, generator) {
  return new (P || (P = Promise))(function (resolve,
  reject) {
    function fulfilled(value) { try { step(generator.next(value)); } catch (e) { reject(e); } }
    function rejected(value) { try { step(generator["throw"](value)); } catch (e) { reject(e); } }
    function step(result) { result.done ? resolve(result.value) : new P(function (resolve) { resolve(result.value); }).then(fulfilled,
    rejected); }
    step((generator = generator.apply(thisArg, _arguments || [])).next());
  });
}

function __generator(thisArg, body) {
  var _ = { label: 0, sent: function() { if (t[0] & 1) throw t[1]; return
  t[1]; }, trys: [],
  ops: [] }, f, y, t, g;
  return g = { next: verb(0), "throw": verb(1), "return": verb(2) }, typeof Symbol ===
  "function" && (g[Symbol.iterator] = function() { return this; }), g;
  function verb(n) { return function (v) {
  return step([n, v]); }; }
  function step(op) {
    if (f) throw new TypeError("Generator is already
    executing.");
    while (_ try {
      if (f = 1, y && (t = op[0] & 2 ? y["return"] : op[0] ?
      y["throw"] || ((t = y["return"]) && t.call(y), 0) : y.next) && !(t = t.call(y, op[1])).done) return t;
      if (y
      = 0, t) op = [op[0] & 2, t.value];
      switch (op[0]) {
        case 0: case 1: t = op; break;
        case 4: _label++; return { value: op[1], done: false };
        case 5: _label++; y = op[1]; op = [0];
        continue;
        case 7: op = _ops.pop(); _trys.pop(); continue;
        default:
          if (!(t = _trys, t = t.length > 0 && t[t.length - 1]) && (op[0] === 6 || op[0] === 2)) { _ = 0; continue;
          }
          if (op[0] === 3 && (!t || (op[1] > t[0] && op[1] < t[3]))) { _label = op[1]; break; }
          if (op[0] === 6 && _label < t[1]) { _label = t[1]; t = op; break; }
          if (t && _label < t[2]) {
            _label = t[2]; _ops.push(op); break; }
          if (t[2]) _ops.pop();
          _trys.pop();
          continue;
        }
        op = body.call(thisArg, _);
      } catch (e) { op = [6, e]; y = 0; } finally {
        f = t = 0;
        if (op[0] & 5) throw op[1]; return { value: op[0] ? op[1] : void 0, done: true };
      }
    }
  }

  function __exportStar(m, exports) {
    for (var p in m) if (!exports.hasOwnProperty(p)) exports[p] =
    m[p];
  }

  function __values(o) {
    var m = typeof
    Symbol === "function" && o[Symbol.iterator], i = 0;
    if (m) return m.call(o);
    return {
      next: function () {
        if (o && i >= o.length) o = void 0;
        return { value: o && o[i++], done:
        !o };
      }
    };
  }

  function __read(o, n) {
    var m = typeof Symbol === "function"
    && o[Symbol.iterator];
    if (!m) return o;
    var i = m.call(o), r, ar = [], e;
    try {
      while
      ((n === void 0 || n-- > 0) && !(r = i.next()).done) ar.push(r.value);
    } catch (error) { e = { error: error
    }; }
    finally {
      try {
        if (r && !r.done && (m = i["return"])) m.call(i);
      } finally {
        if (e) throw e.error;
      }
    }
    return ar;
  }

  function __spread() {
    for (var
    ar = [], i = 0; i < arguments.length; i++)
      ar = ar.concat(__read(arguments[i]));
    return ar;
  }

  function __spreadArrays() {
    for (var s = 0, i = 0, il = arguments.length; i < il;
    i++) s += arguments[i].length;
    for (var r = Array(s), k = 0, i = 0; i < il; i++)
      for (var a =
      arguments[i], j = 0, jl = a.length; j < jl; j++, k++)
        r[k] = a[j];
    return r;
  }

  function
  __await(v) {
    return this instanceof __await ? (this.v = v, this) : new __await(v);
  }

  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 = {
      next: function () {
        return g.next().then(function (r) {
          return r.value instanceof __await ? Promise.resolve(r.value.v).then(fulfilled,
          rejected) : settle(q[0][2], r);
        });
      },
      function fulfill(value) { resume("next", value); },
      function reject(value) {
        resume("throw", value);
      },
      function settle(f, v) {
        if (f(v), q.shift(), q.length) resume(q[0][0], q[0][1]);
      }
    };
  }

  function __asyncDelegator(o) {
    var i, p;
    return i = {
      next: function () {
        return i = {
          next: function () {
            return (p = !p) ? { value: __await(o[n](v)), done: n === "return" } : f ? f(v) : f;
          }
        };
      }
    };
  }

```

```

}\r\n }\r\n\r\n function __asyncValues(o) {\r\n    if (!Symbol.asyncIterator) throw new
TypeError("Symbol.asyncIterator
is not defined.");\r\n    var m = o[Symbol.asyncIterator], i;\r\n    return m ? m.call(o) : (o = typeof __values
=== "function" ? __values(o) : o[Symbol.iterator](), i = {}, verb("next"), verb("throw"), verb("return"),
i[Symbol.asyncIterator] = function () { return this; }, i);\r\n    function verb(n) { i[n] = o[n] && function (v) {
return new Promise(function (resolve, reject) { v = o[n](v), settle(resolve, reject, v.done, v.value); }); }; }\r\n
function settle(resolve, reject, d, v) { Promise.resolve(v).then(function(v) { resolve({ value: v, done: d }); }, reject);
}\r\n }\r\n\r\n function __makeTemplateObject(cooked, raw) {\r\n    if (Object.defineProperty) {
Object.defineProperty(cooked, "raw", { value: raw }); } else { cooked.raw = raw; }\r\n    return cooked;\r\n
};\r\n\r\n function __importStar(mod) {\r\n    if (mod && mod.__esModule) return mod;\r\n    var result =
{};\r\n    if (mod != null) for
(var k in mod) if (Object.hasOwnProperty.call(mod, k)) result[k] = mod[k];\r\n    result.default = mod;\r\n
return result;\r\n }\r\n\r\n function __importDefault(mod) {\r\n    return (mod && mod.__esModule) ? mod : {
default: mod };}\r\n }\n\n /**\n  * @license\n  * Copyright Google Inc. All Rights Reserved.\n  *\n  * Use
of this source code is governed by an MIT-style license that can be\n  * found in the LICENSE file at
https://angular.io/license\n  *\n  /**\n  * Used to provide a `ControlValueAccessor` for form controls.\n  *\n
* See `DefaultValueAccessor` for how to implement one.\n  *\n  * @publicApi\n  *\n  var
NG_VALUE_ACCESSOR = new core.InjectionToken('NgValueAccessor');\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 CHECKBOX_VALUE_ACCESSOR = {\n    provide: NG_VALUE_ACCESSOR,\n    useExisting:
core.forwardRef(function () { return CheckboxControlValueAccessor; })),\n    multi: true,\n }; \n /**\n  *
@description\n  * A `ControlValueAccessor` for writing a value and listening to changes on a checkbox input\n
* element.\n  *\n  * @usageNotes\n  *\n  * ### Using a checkbox with a reactive form.\n  *\n  * The
following example shows how to use a checkbox with a reactive form.\n  *\n  * ``ts\n  * const
rememberLoginControl = new FormControl();\n  * ``\n  *\n  * ``\n  * <input type="checkbox"\n
[formControl]="rememberLoginControl">\n  * ``\n  *\n  * @ngModule ReactiveFormsModule\n  *
@ngModule FormsModule\n  * @publicApi\n  *\n  var CheckboxControlValueAccessor = /** @class */
(function () {\n    function CheckboxControlValueAccessor(_renderer, _elementRef) {\n        this._renderer =
_renderer;\n
        this._elementRef = _elementRef;\n        /**\n         * @description\n         * The registered callback
function called when a change event occurs on the input element.\n         *\n         * this.onChange = function (_
{ });\n        /**\n         * @description\n         * The registered callback function called when a blur event
occurs on the input element.\n         *\n         * this.onTouched = function () { };}\n        }\n        /**\n
* Sets the "checked" property on the input element.\n         *\n         * @param value The checked value\n         *\n
CheckboxControlValueAccessor.prototype.writeValue = function (value) {\n
this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value);\n        };}\n        /**\n
* @description\n         * Registers a function called when the control value changes.\n         *\n         * @param fn The
callback function\n         *\n         * CheckboxControlValueAccessor.prototype.registerOnChange
= function (fn) { this.onChange = fn; };\n        /**\n         * @description\n         * Registers a function called when
the control is touched.\n         *\n         * @param fn The callback function\n         *\n
CheckboxControlValueAccessor.prototype.registerOnTouched = function (fn) { this.onTouched = fn; };\n        /**\n
* Sets the "disabled" property on the input element.\n         *\n         * @param isDisabled The disabled value\n
*\n         *\n         * CheckboxControlValueAccessor.prototype.setDisabledState = function (isDisabled) {\n
this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\n        };}\n
CheckboxControlValueAccessor = __decorate([\n    core.Directive({\n        selector:
'input[type=checkbox][formControlName],input[type=checkbox][formControl],input[type=checkbox][ngModel]',\n
        host: { '(change)': 'onChange($event.target.checked)',

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(blur)': 'onTouched()' },\n          providers: [CHECKBOX_VALUE_ACCESSOR]\n        ]),\n    __metadata({"design:paramtypes": [core.Renderer2, core.ElementRef])\n  ],\n  CheckboxControlValueAccessor);\n  return CheckboxControlValueAccessor;\n  }());\n\n  /**\n   * @license\n   * Copyright Google Inc. All Rights Reserved.\n   * Use of this source code is governed by an MIT-style license that can be found in the LICENSE file at https://angular.io/license\n   */\n  var DEFAULT_VALUE_ACCESSOR = {\n    provide: NG_VALUE_ACCESSOR,\n    useExisting: core.forwardRef(function () { return DefaultValueAccessor; }),\n    multi: true\n  }; \n\n  /**\n   * We must check whether the agent is Android because composition events behave differently between iOS and Android.\n   */\n  function _isAndroid() {\n    var userAgent = common.getDOM().common.getDOM().getUserAgent();\n    return /android (\\d+)/.test(userAgent.toLowerCase());\n  }\n\n  /**\n   * @description\n   * Provide this token to control if form directives buffer IME input until the "compositionend" event occurs.\n   */\n  @publicApi\n  var COMPOSITION_BUFFER_MODE = new core.InjectionToken('CompositionEventMode');\n\n  /**\n   * @description\n   * 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.\n   * @usageNotes\n   * ### Using the default value accessor\n   * The following example shows how to use an input element that activates the default value accessor (in this case, a text field).\n   * ```ts\n   * const firstNameControl = new FormControl();\n   * ```\n   * ```\n   * <input type="text" [formControl]=`firstNameControl`>\n   * ```\n   */\n  @ngModule ReactiveFormsModule\n  @ngModule FormsModule\n  @publicApi\n  var DefaultValueAccessor = /** @class */ (function () {\n    function DefaultValueAccessor(_renderer, _elementRef, _compositionMode) {\n      this._renderer = _renderer;\n      this._elementRef = _elementRef;\n      this._compositionMode = _compositionMode;\n    }\n\n    /**\n     * @description\n     * The registered callback function called when an input event occurs on the input element.\n     */\n    this.onChange = function (_) {\n    }\n\n    /**\n     * @description\n     * The registered callback function called when a blur event occurs on the input element.\n     */\n    this.onTouched = function () {\n    }\n\n    /**\n     * Whether the user is creating a composition string (IME events).\n     */\n    this._composing = false;\n\n    if (this._compositionMode == null) {\n      this._compositionMode = !_isAndroid();\n    }\n\n    /**\n     * Sets the "value" property on the input element.\n     */\n    @param value The checked value\n    DefaultValueAccessor.prototype.writeValue = function (value) {\n      var normalizedValue = value == null ? "": value;\n      this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);\n    }\n\n    /**\n     * @description\n     * Registers a function called when the control value changes.\n     */\n    @param fn The callback function\n    DefaultValueAccessor.prototype.registerOnChange = function (fn) {\n      this.onChange = fn; \n    }\n\n    /**\n     * @description\n     * Registers a function called when the control is touched.\n     */\n    @param fn The callback function\n    DefaultValueAccessor.prototype.registerOnTouched = function (fn) {\n      this.onTouched = fn; \n    }\n\n    /**\n     * Sets the "disabled" property on the input element.\n     */\n    @param isDisabled The disabled value\n    DefaultValueAccessor.prototype.setDisabledState = function (isDisabled) {\n      this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\n    }\n\n    /**\n     * @internal\n     */\n    DefaultValueAccessor.prototype._handleInput = function (value) {\n      if (!this._compositionMode || (this._compositionMode && !this._composing)) {\n        this.onChange(value);\n      }\n    }\n\n    /**\n     * @internal\n     */\n    DefaultValueAccessor.prototype._compositionStart = function () {\n      this._composing = true; \n    }\n\n    /**\n     * @internal\n     */\n    DefaultValueAccessor.prototype._compositionEnd = function (value) {\n      this._composing = false;\n      this._compositionMode && this.onChange(value);\n    }\n  }\n\n  DefaultValueAccessor = __decorate([\n    core.Directive({\n      selector: 'input:not([type=checkbox])[formControlName],textarea[formControlName],input:not([type=checkbox])[formContr

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ol],textarea[formControl],input:not([type=checkbox])[ngModel],textarea[ngModel],[ngDefaultControl]'],n
// TODO: vsavkin replace the above selector with the one below it once\n      //
https://github.com/angular/angular/issues/3011 is implemented\n      // selector:
'[ngModel],[formControl],[formControlName]'],n      host: {\n      '(input)':
'$any(this)._handleInput($event.target.value)',\n      '(blur)': 'onTouched()',\n
'(compositionstart)': '$any(this)._compositionStart()',\n      '(compositionend)':
'$any(this)._compositionEnd($event.target.value)',\n      },\n      providers:
[DEFAULT_VALUE_ACCESSOR]\n      },\n      __param(2, core.Optional()), __param(2,
core.Inject(COMPOSITION_BUFFER_MODE)),\n
      __metadata({"design:paramtypes": [core.Renderer2, core.ElementRef, Boolean]})\n    ],
DefaultValueAccessor);\n    return DefaultValueAccessor;\n  }());\n  /**\n   * Copyright
Google Inc. All Rights Reserved.\n   * Use of this source code is governed by an MIT-style license that can
be\n   * found in the LICENSE file at https://angular.io/license\n   *\n   * @description\n   * Base class
for control directives.\n   * This class is only used internally in the `ReactiveFormsModule` and the
`FormsModule`.\n   * @publicApi\n   *\n   var AbstractControlDirective = /** @class */ (function () {\n
function AbstractControlDirective() {\n    }\n    Object.defineProperty(AbstractControlDirective.prototype,
"value", {\n    /**\n     * @description\n     * Reports the value of the control if it is present,
otherwise null.\n     */\n    get: function
() { return this.control ? this.control.value : null; },\n    enumerable: true,\n    configurable: true\n
});\n    Object.defineProperty(AbstractControlDirective.prototype, "valid", {\n    /**\n     *
@description\n     * Reports whether the control is valid. A control is considered valid if no\n     *
validation errors exist with the current value.\n     * If the control is not present, null is returned.\n     */\n
get: function () { return this.control ? this.control.valid : null; },\n    enumerable: true,\n
configurable: true\n    });\n    Object.defineProperty(AbstractControlDirective.prototype, "invalid", {\n
/**\n     * @description\n     * Reports whether the control is invalid, meaning that an error exists in the
input value.\n     * If the control is not present, null is returned.\n     */\n    get: function ()
{ return this.control ? this.control.invalid : null; },\n    enumerable: true,\n    configurable: true\n
});\n    Object.defineProperty(AbstractControlDirective.prototype, "pending", {\n    /**\n     *
@description\n     * Reports whether a control is pending, meaning that that async validation is occurring and\n
     * errors are not yet available for the input value. If the control is not present, null is\n     *
returned.\n     */\n    get: function () { return this.control ? this.control.pending : null; },\n
enumerable: true,\n    configurable: true\n    });\n    Object.defineProperty(AbstractControlDirective.prototype,
"disabled", {\n    /**\n     * @description\n     * Reports whether the control is disabled, meaning that the control is
disabled\n     * in the UI and is exempt from validation checks and excluded from aggregate\n     *
values of ancestor controls. If the control is not present, null is returned.\n     */\n    get: function () {
return this.control ? this.control.disabled : null; },\n    enumerable: true,\n    configurable: true\n
});\n    Object.defineProperty(AbstractControlDirective.prototype, "enabled", {\n    /**\n     * @description\n
     * Reports whether the control is enabled, meaning that the control is included in ancestor\n     *
calculations of validity or value. If the control is not present, null is returned.\n     */\n    get: function () {
return this.control ? this.control.enabled : null; },\n    enumerable: true,\n    configurable: true\n
});\n    Object.defineProperty(AbstractControlDirective.prototype, "errors", {\n    /**\n     * @description\n
     * Reports the control's validation errors. If the control is not present, null is returned.\n     */\n
get: function () { return this.control ? this.control.errors : null; },\n    enumerable: true,\n
configurable: true\n    });\n    Object.defineProperty(AbstractControlDirective.prototype, "pristine", {\n
/**\n     * @description\n     * Reports whether the control is pristine, meaning that the user has not yet
changed\n     * the value in the UI. If the control is not present, null is returned.\n     */\n    get:
function () { return this.control ? this.control.pristine : null; },\n    enumerable: true,\n    configurable:
true\n    });\n    Object.defineProperty(AbstractControlDirective.prototype, "dirty", {\n    /**\n     *

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    @description\n      * Reports whether the control is dirty, meaning that the user has changed\n      * the value in the UI. If the control is not present, null is returned.\n      */\n      get: function () { return this.control ? this.control.dirty : null; },\n      enumerable: true,\n      configurable: true\n    });\n    Object.defineProperty(FormControlDirective.prototype, \"touched\", {\n      /**\n      * @description\n      * Reports whether the control is touched, meaning that the user has triggered\n      * a `blur` event on it. If the control is not present, null is returned.\n      */\n      get: function () { return this.control ? this.control.touched : null; },\n      enumerable: true,\n      configurable: true\n    });\n    Object.defineProperty(FormControlDirective.prototype, \"status\", {\n      /**\n      * @description\n      * Reports the validation status of the control. Possible values include:\n      * 'VALID', 'INVALID', 'DISABLED', and 'PENDING'. If the control is not present, null is returned.\n      */\n      get: function () { return this.control ? this.control.status : null; },\n      enumerable: true,\n      configurable: true\n    });\n    Object.defineProperty(FormControlDirective.prototype, \"untouched\", {\n      /**\n      * @description\n      * Reports whether the control is untouched, meaning that the user has not yet triggered\n      * a `blur` event on it. If the control is not present, null is returned.\n      */\n      get: function () { return this.control ? this.control.untouched : null; },\n      enumerable: true,\n      configurable: true\n    });\n    Object.defineProperty(FormControlDirective.prototype, \"statusChanges\", {\n      /**\n      * @description\n      * Returns a multicasting observable that emits a validation status whenever it is\n      * calculated for the control. If the control is not present, null is returned.\n      */\n      get: function () {\n        return this.control ? this.control.statusChanges : null;\n      },\n      enumerable: true,\n      configurable: true\n    });\n    Object.defineProperty(FormControlDirective.prototype, \"valueChanges\", {\n      /**\n      * @description\n      * Returns a multicasting observable of value changes for the control that emits every time the\n      * value of the control changes in the UI or programmatically. If the control is not present, null is returned.\n      */\n      get: function () {\n        return this.control ? this.control.valueChanges : null;\n      },\n      enumerable: true,\n      configurable: true\n    });\n    Object.defineProperty(FormControlDirective.prototype, \"path\", {\n      /**\n      * @description\n      * Returns an array that represents the path from the top-level form to this control.\n      * Each index is the string name of the control on that level.\n      */\n      get: function () {\n        return null;\n      },\n      enumerable: true,\n      configurable: true\n    });\n    /**\n    * Resets the control with the provided value if the control is present.\n    */\n    FormControlDirective.prototype.reset = function (value) {\n      if (value === void 0) { value = undefined; }\n      if (this.control)\n        this.control.reset(value);\n    };\n    /**\n    * @description\n    * Reports whether the control with the given path has the error specified.\n    * @param errorCode The code of the error to check\n    * @param path A list of control names that designates how to move from the current control\n    * to the control that should be queried for errors.\n    * @usageNotes\n    * For example, for the following `FormGroup`:\n    * ```\n    * form = new FormGroup({\n    *   address: new FormGroup({\n    *     street: new FormControl() })\n    * });\n    * ```\n    * The path to the 'street' control from the root form would be 'address' -> 'street'.\n    * It can be provided to this method in one of two formats:\n    * 1. An array of string control names, e.g. `['address', 'street']`\n    * 1. A period-delimited list of control names in one string, e.g. `address.street`\n    * If no path is given, this method checks for the error on the current control.\n    * @returns whether the given error is present in the control at the given path.\n    * If the control is not present, false is returned.\n    */\n    FormControlDirective.prototype.hasError = function (errorCode, path) {\n      return this.control ? this.control.hasError(errorCode, path) : false;\n    };\n    /**\n    * @description\n    * Reports error data for the control with the given path.\n    * @param errorCode The code of the error to check\n    * @param path A list of control names that designates how to move from the current control\n    * to the control that should be queried for errors.\n    * @usageNotes\n    * For example, for the following `FormGroup`:\n    * ```

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    * 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.
    AbstractControlDirective.prototype.getError = function (errorCode, path) {
      return this.control ? this.control.getError(errorCode, path) : null;
    };
    return AbstractControlDirective;
  });
  /**
   * @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 base class for directives that contain multiple registered instances of `NgControl`.
   * Only used by the forms module.
   */
  /**
   * @publicApi
   */
  var ControlContainer = /** @class */ (function (_super) {
    __extends(ControlContainer, _super);
    function ControlContainer() {
      return _super !== null && _super.apply(this, arguments) || this;
    }
    Object.defineProperty(ControlContainer.prototype, "formDirective", {
      /**
       * @description
       * The top-level form directive for the control.
       */
      get: function () { return null; },
      enumerable: true,
      configurable: true
    });
    Object.defineProperty(ControlContainer.prototype, "path", {
      /**
       * @description
       * The path to this group.
       */
      get: function () { return null; },
      enumerable: true,
      configurable: true
    });
    return ControlContainer;
  })(AbstractControlDirective);
  /**
   * @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 base class that all control `FormControl`-based directives extend. It binds a `FormControl` object to a DOM element.
   */
  /**
   * @publicApi
   */
  var NgControl = /** @class */ (function (_super) {
    __extends(NgControl, _super);
    function NgControl() {
      var _this = _super !== null && _super.apply(this, arguments) || this;
      /**
       * @description
       * The parent form for the control.
       */
      /**
       * @internal
       */
      _this._parent = null;
      /**
       * @description
       * The name for the control
       */
      _this.name = null;
      /**
       * @description
       * The value accessor for the control
       */
      _this.valueAccessor = null;
      /**
       * @description
       * The uncomposed array of synchronous validators for the control
       */
      /**
       * @internal
       */
      _this._rawValidators = [];
      /**
       * @description
       * The uncomposed array of async validators for the control
       */
      /**
       * @internal
       */
      _this._rawAsyncValidators = [];
      return _this;
    }
    Object.defineProperty(NgControl.prototype, "validator", {
      /**
       * @description
       * The registered synchronous validator function for the control
       */
      /**
       * @throws An exception that this method is not implemented
       */
      get: function () { return unimplemented(); },
      enumerable: true,
      configurable: true
    });
    Object.defineProperty(NgControl.prototype, "asyncValidator", {
      /**
       * @description
       * The registered async validator function for the control
       */
      /**
       * @throws An exception that this method is not implemented
       */
      get: function () { return unimplemented(); },
      enumerable: true,
      configurable: true
    });
    return NgControl;
  })(AbstractControlDirective);
  /**
   * @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 AbstractControlStatus = /** @class */ (function () {
    function AbstractControlStatus(cd) {
      this._cd = cd;
    }
    Object.defineProperty(AbstractControlStatus.prototype, "ngClassUntouched", {
      get: function () { return this._cd.control ? this._cd.control.untouched : false; },
      enumerable: true,
    });
  })();

```

```

        configurable: true\n    });\n    Object.defineProperty(AbstractControlStatus.prototype,
'ngClassTouched', {\n        get: function () { return this._cd.control ? this._cd.control.touched : false; },\n    enumerable: true,\n        configurable: true\n    });\n    Object.defineProperty(AbstractControlStatus.prototype, 'ngClassPristine', {\n        get: function () { return
this._cd.control ? this._cd.control.pristine : false; },\n        enumerable: true,\n        configurable: true\n    });\n    Object.defineProperty(AbstractControlStatus.prototype, 'ngClassDirty', {\n        get: function () {
return this._cd.control ? this._cd.control.dirty : false; },\n        enumerable: true,\n        configurable: true\n    });\n    Object.defineProperty(AbstractControlStatus.prototype, 'ngClassValid', {\n        get: function () {
return this._cd.control ? this._cd.control.valid : false; },\n        enumerable: true,\n        configurable: true\n    });\n    Object.defineProperty(AbstractControlStatus.prototype, 'ngClassInvalid', {\n        get: function () { return
this._cd.control ? this._cd.control.invalid : false; },\n        enumerable: true,\n        configurable: true\n    });\n    Object.defineProperty(AbstractControlStatus.prototype, 'ngClassPending', {\n        get: function () { return
this._cd.control ? this._cd.control.pending : false; },\n        enumerable: true,\n        configurable: true\n    });\n    return AbstractControlStatus;\n }());\n var ngControlStatusHost = {\n    '[class.ng-untouched]':
'ngClassUntouched',\n    '[class.ng-touched]': 'ngClassTouched',\n    '[class.ng-pristine]': 'ngClassPristine',\n    '[class.ng-dirty]': 'ngClassDirty',\n    '[class.ng-valid]': 'ngClassValid',\n    '[class.ng-invalid]': 'ngClassInvalid',\n    '[class.ng-pending]': 'ngClassPending',\n };
\n /**\n  * @description\n  * Directive automatically applied to Angular form controls that sets CSS
classes\n  * based on control status.\n  * @usageNotes\n  * ### CSS classes applied\n  *\n  *
The following classes are applied as the properties become true:\n  * * ng-valid\n  * * ng-invalid\n  * *
ng-pending\n  * * ng-pristine\n  * * ng-dirty\n  * * ng-untouched\n  * * ng-touched\n  *\n  * @ngModule
ReactiveFormsModule\n  * @ngModule FormsModule\n  * @publicApi\n  */\n var NgControlStatus = /**
@class */ (function (_super) {\n    __extends(NgControlStatus, _super);\n    function NgControlStatus(cd) {\n
return _super.call(this, cd) || this;\n    }\n    NgControlStatus = __decorate([\n        core.Directive({
selector: '[formControlName],[ngModel],[formControl]', host: ngControlStatusHost }),\n        __param(0,
core.Self()),\n        __metadata({"design:paramtypes",
[NgControl]})\n    ], NgControlStatus);\n    return NgControlStatus;\n })(AbstractControlStatus);\n /**\n
* @description\n  * Directive automatically applied to Angular form groups that sets CSS classes\n  * based on
control status (valid/invalid/dirty/etc).\n  * @see `NgControlStatus`\n  *\n  * @ngModule
ReactiveFormsModule\n  * @ngModule FormsModule\n  * @publicApi\n  */\n var NgControlStatusGroup =
/** @class */ (function (_super) {\n    __extends(NgControlStatusGroup, _super);\n    function
NgControlStatusGroup(cd) {\n        return _super.call(this, cd) || this;\n    }\n    NgControlStatusGroup =
__decorate([\n        core.Directive({\n            selector:
'[formGroupName],[formArrayName],[ngModelGroup],[formGroup],form:not([ngNoForm]),[ngForm]',\n            host: ngControlStatusHost\n        }),\n        __param(0, core.Self()),\n        __metadata({"design:paramtypes",
[ControlContainer]})\n    ], NgControlStatusGroup);\n    return NgControlStatusGroup;\n
})(AbstractControlStatus);\n\n /**\n  * @license\n  * Copyright Google Inc. All Rights Reserved.\n  *\n  *
Use of this source code is governed by an MIT-style license that can be\n  * found in the LICENSE file at
https://angular.io/license\n  */\n function isEmptyInputValue(value) {\n    // we don't check for string here so
it also works with arrays\n    return value == null || value.length === 0;\n }\n /**\n  * @description\n  *
An `InjectionToken` for registering additional synchronous validators used with `AbstractControl`s.\n  *\n  *
@see `NG_ASYNC_VALIDATORS`\n  *\n  * @usageNotes\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

```

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{\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-Z0-
9!#$%&'*/+=?^_`{|}~]+)*@[a-zA-Z0-9](?:[a-zA-Z0-9-]{0,61}[a-zA-Z0-9])?(?:\.[a-zA-Z0-9-
]{0,61}[a-zA-Z0-9])?*$; \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 * \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 * \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: 15, actual: 16}} \n * ```` \n
* \n * @returns A validator function that returns an error map with the \n * ``max`` property if the validation
check fails, otherwise `null`. \n * \n * @see `updateValueAndValidity()` \n * \n * \n
Validators.max = function (max) {\n return function (control) {\n if
(isEmptyInputValue(control.value) || isEmptyInputValue(max)) {\n return null; // don't validate empty

```



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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        // maximum, per the HTML
forms spec: https://www.w3.org/TR/html5/forms.html#attr-input-max\n
        return !isNaN(value) && value > max ? { 'max': { 'max': max, 'actual': control.value } } : null;\n
};\n    };\n    /**\n     * @description\n     * Validator that requires the control have a non-empty value.\n
    *\n     * @usageNotes\n     *\n     * ### Validate that the field is non-empty\n     *\n     *
``typescript\n     * const control = new FormControl("", Validators.required);\n     *\n     *
console.log(control.errors); // {required: true}\n     * ``\n     *\n     * @returns An error map with the
`required` property\n     * if the validation check fails, otherwise `null`.\n     *\n     * @see
`updateValueAndValidity()`\n     *\n     */\n     Validators.required = function (control) {\n     return
isEmptyInputValue(control.value) ? { 'required': true } : null;\n     };\n    /**\n     * @description\n     *
Validator
that requires the control's value be true. This validator is commonly\n     * used for required checkboxes.\n
*\n     * @usageNotes\n     *\n     * ### Validate that the field value is true\n     *\n     * ``typescript\n     *
const control = new FormControl("", Validators.requiredTrue);\n     *\n     * console.log(control.errors); //
{required: true}\n     * ``\n     *\n     * @returns An error map that contains the `required` property\n     *
set to `true` if the validation check fails, otherwise `null`.\n     *\n     * @see `updateValueAndValidity()`\n
*\n     */\n     Validators.requiredTrue = function (control) {\n     return control.value === true ? null : {
'required': true };\n     };\n    /**\n     * @description\n     * Validator that requires the control's value pass
an email validation test.\n     *\n     * Tests the value using a [regular
expression](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide/Regular_Expressions)\n
     * pattern suitable for common usecases. The pattern is based on the definition of a valid email\n     * address
in the [WHATWG HTML specification](https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address)\n
     * with some enhancements to incorporate more RFC rules (such as rules related to domain names and\n     *
the lengths of different parts of the address).\n     *\n     * The differences from the WHATWG version
include:\n     * - Disallow `local-part` (the part before the `@` symbol) to begin or end with a period (`.`).\n     *
- Disallow `local-part` to be longer than 64 characters.\n     * - Disallow the whole address to be longer than 254
characters.\n     *\n     * If this pattern does not satisfy your business needs, you can use `Validators.pattern()`
to\n     * validate the value against a different pattern.\n     *\n     * @usageNotes\n
     *\n     * ### Validate that the field matches a valid email pattern\n     *\n     * ``typescript\n     *
const control = new FormControl('bad@', Validators.email);\n     *\n     * console.log(control.errors); // {email:
true}\n     * ``\n     *\n     * @returns An error map with the `email` property\n     * if the validation check
fails, otherwise `null`.\n     *\n     * @see `updateValueAndValidity()`\n     *\n     */\n     Validators.email
= function (control) {\n     if (isEmptyInputValue(control.value)) {\n     return null; // don't validate
empty values to allow optional controls\n     }\n     return EMAIL_REGEXP.test(control.value) ? null : {
'email': true };\n     };\n    /**\n     * @description\n     * Validator that requires the length of the control's
value to be greater than or equal\n     * to the provided minimum length. This validator is also
provided by default if you use the\n     * the HTML5 `minlength` attribute.\n     *\n     * @usageNotes\n
     *\n     * ### Validate that the field has a minimum of 3 characters\n     *\n     * ``typescript\n     * const
control = new FormControl('ng', Validators.minLength(3));\n     *\n     * console.log(control.errors); //
{minlength: {requiredLength: 3, actualLength: 2}}\n     * ``\n     *\n     * ``html\n     * <input
minlength="5">\n     * ``\n     *\n     * @returns A validator function that returns an error map with the\n
     * `minlength` if the validation check fails, otherwise `null`.\n     *\n     * @see `updateValueAndValidity()`\n
     *\n     */\n     Validators.minLength = function (minLength) {\n     return function (control) {\n
if (isEmptyInputValue(control.value)) {\n     return null; // don't validate empty values to allow optional
controls\n     }\n
     }\n     var length = control.value ? control.value.length : 0;\n     return length < minLength
? {\n     'minlength': { 'requiredLength': minLength, 'actualLength': length } } :\n     null;\n

```

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};\n    };\n    /**\n     * @description\n     * Validator that requires the length of the control's value to be  

less than or equal\n     * to the provided maximum length. This validator is also provided by default if you use  

the\n     * the HTML5 `maxlength` attribute.\n     *\n     * @usageNotes\n     *\n     * ### Validate that  

the field has maximum of 5 characters\n     *\n     * ```typescript\n     * const control = new  

FormControl('Angular', Validators.maxLength(5));\n     *\n     * console.log(control.errors); // {maxlength:  

{requiredLength: 5, actualLength: 7}}\n     * ```\n     *\n     * ```html\n     * <input maxlength=5">\n     * ```\n     *\n     * @returns A validator function that returns an error map with the\n     * `maxlength`\n/>
property if the validation check fails, otherwise `null`.\n     *\n     * @see `updateValueAndValidity()`\n     *\n     */\n    Validators.maxLength = function (maxLength) {\n        return function (control) {\n/>
var length = control.value ? control.value.length : 0;\n            return length > maxLength ?\n                {\n/>
'maxlength': { 'requiredLength': maxLength, 'actualLength': length } :\n                null;\n        };\n    };\n    /**\n     * @description\n     * Validator that requires the control's value to match a regex pattern. This validator  

is also\n     * provided by default if you use the HTML5 `pattern` attribute.\n     *\n     * @usageNotes\n     *\n     * ### Validate that the field only contains letters or spaces\n     *\n     * ```typescript\n     * const control = new FormControl('1', Validators.pattern('[a-zA-Z ]*'));\n     *\n     * console.log(control.errors); // {pattern: {requiredPattern: '^'[a-zA-Z ]*$', actualValue: '1'}}\n     * ```\n     *\n     * ```html\n     * <input pattern="[a-zA-Z ]*">\n     * ```\n     *\n     * @param pattern A regular  

expression to be used as is to test the values, or a string.\n     * If a string is passed, the `^` character is prepended  

and the `$` character is\n     * appended to the provided string (if not already present), and the resulting regular\n     * expression is used to test the values.\n     *\n     * @returns A validator function that returns an error map  

with the\n     * `pattern` property if the validation check fails, otherwise `null`.\n     *\n     * @see  

`updateValueAndValidity()`\n     *\n     */\n    Validators.pattern = function (pattern) {\n        if (!pattern)\n/>
return Validators.nullValidator;\n        var regex;\n        var regexStr;\n        if (typeof pattern ===  

'string') {\n            regexStr = ";\n            if (pattern.charAt(0) !== '^')\n                regexStr += '^';\n            regexStr += pattern;\n            if (pattern.charAt(pattern.length - 1) !== '$')\n                regexStr += '$';\n            regex = new RegExp(regexStr);\n        } else {\n            regexStr = pattern.toString();\n            regex  

= pattern;\n        }\n        return function (control) {\n            if (isEmptyInputValue(control.value)) {\n/>
return null; // don't validate empty values to allow optional controls\n            }\n            var value =  

control.value;\n            return regex.test(value) ? null :\n                { 'pattern': { 'requiredPattern': regexStr,  

'actualValue': value } };\n        };\n    };\n    /**\n     * @description\n     * Validator that performs no operation.\n     *\n     * @see  

`updateValueAndValidity()`\n     *\n     */\n    Validators.nullValidator = function (control) { return null; };\n    Validators.compose = function (validators) {\n        if (!validators)\n            return null;\n        var  

presentValidators = validators.filter(isPresent);\n        if (presentValidators.length == 0)\n            return null;\n        return function (control) {\n            return _mergeErrors(_executeValidators(control, presentValidators));\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    Validators.composeAsync = function (validators) {\n        if (!validators)\n            return null;\n        var presentValidators = validators.filter(isPresent);\n        if (presentValidators.length == 0)\n            return  

null;\n        return function (control) {\n            var observables = _executeAsyncValidators(control,  

presentValidators).map(toObservable);\n            return  

rxjs.forkJoin(observables).pipe(operators.map(_mergeErrors));\n        };\n    };\n    return Validators;\n/>
}());\n    function isPresent(o) {\n        return o != null;\n    }\n    function toObservable(r) {\n        var obs =  

core.isPromise(r) ? rxjs.from(r) : r;\n        if (!(core.isObservable(obs))) {\n            throw new Error("Expected  

validator to return Promise or Observable.");\n        }\n    }

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return obs;\n } \n function _executeValidators(control, validators) {\n return validators.map(function (v) {\n return v(control); });\n } \n function _executeAsyncValidators(control, validators) {\n return\n validators.map(function (v) {\n return v(control); });\n } \n function _mergeErrors(arrayOfErrors) {\n var res =\n {};\n // Not using Array.reduce here due to a Chrome 80 bug\n //\n https://bugs.chromium.org/p/chromium/issues/detail?id=1049982\n arrayOfErrors.forEach(function (errors) {\n res = errors != null ? __assign(__assign({}, res), errors) : res;\n });\n return Object.keys(res).length\n === 0 ? null : res;\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\n https://angular.io/license\n *\n function normalizeValidator(validator) {\n if\n (validator.validate) {\n return function (c) {\n return validator.validate(c); }\n } \n else {\n return validator;\n } \n } \n\n function normalizeAsyncValidator(validator) {\n if (validator.validate) {\n return function (c) {\n return validator.validate(c); }\n } \n else {\n return validator;\n } \n } \n\n /**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is\n governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n *\n var NUMBER_VALUE_ACCESSOR = {\n provide: NG_VALUE_ACCESSOR,\n useExisting:\n core.forwardRef(function () {\n return NumberValueAccessor;\n } ),\n multi: true\n }; \n\n /**\n * @description\n * The `ControlValueAccessor` for writing a number value and listening to number input\n changes.\n * The value accessor is used by the `FormControlDirective`,\n `FormControlName`, and `NgModel`\n * directives.\n *\n * @usageNotes\n *\n * ### Using a number\n input with a reactive form.\n *\n * The following example shows how to use a number input with a reactive\n form.\n *\n * ``\n * const totalControl = new FormControl();\n * ``\n * ``\n * <input\n type="number" [formControl]=totalControl>\n * ``\n * @ngModule ReactiveFormsModule\n * @ngModule FormsModule\n * @publicApi\n *\n var NumberValueAccessor = /** @class */ (function\n () {\n function NumberValueAccessor(_renderer, _elementRef) {\n this._renderer = _renderer;\n this._elementRef = _elementRef;\n }\n\n /**\n * @description\n * The registered callback function\n called when a change or input event occurs on the input\n * element.\n *\n this.onChange =\n function (_) {\n }\n\n /**\n * @description\n * The registered callback function called when a blur event occurs on\n the input element.\n *\n this.onTouched = function () {\n }\n\n /**\n * Sets the\n \"value\" property on the input element.\n *\n * @param value The checked value\n *\n NumberValueAccessor.prototype.writeValue = function (value) {\n // The value needs to be normalized for\n IE9, otherwise it is set to 'null' when null\n var normalizedValue = value == null ? '' : value;\n this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);\n }\n\n /**\n * @description\n * Registers a function called when the control value changes.\n *\n * @param fn The\n callback function\n *\n NumberValueAccessor.prototype.registerOnChange = function (fn) {\n this.onChange = function\n (value) {\n fn(value == '' ? null : parseFloat(value));\n }\n }\n\n /**\n * @description\n * Registers a\n function called when the control is touched.\n *\n * @param fn The callback function\n *\n NumberValueAccessor.prototype.registerOnTouched = function (fn) {\n this.onTouched = fn;\n }\n\n /**\n * Sets the \"disabled\" property on the input element.\n *\n * @param isDisabled The disabled value\n *\n NumberValueAccessor.prototype.setDisabledState = function (isDisabled) {\n this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\n }\n\n NumberValueAccessor = __decorate([\n core.Directive({\n selector:\n 'input[type=number][formControlName],input[type=number][formControl],input[type=number][ngModel]',\n host: {\n '(change)': 'onChange($event.target.value)',\n '(input)':\n 'onChange($event.target.value)',\n '(blur)': 'onTouched()' \n } ),\n providers:\n [NUMBER_VALUE_ACCESSOR]\n ]),\n __metadata(\"design:paramtypes\", [core.Renderer2,\n core.ElementRef]),\n NumberValueAccessor);\n return NumberValueAccessor;\n }()); \n\n /**\n *

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@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
RADIO_VALUE_ACCESSOR = {\n provide: NG_VALUE_ACCESSOR,\n useExisting:
core.forwardRef(function () { return RadioControlValueAccessor; })),\n multi: true\n };\n /**\n *
@description\n * Class used by Angular to track radio buttons. For internal use only.\n */\n var
RadioControlRegistry = /** @class */ (function () {\n function RadioControlRegistry() {\n
this._accessors = [];\n }\n /**\n * @description\n * Adds a control to the internal registry. For
internal use only.\n */\n RadioControlRegistry.prototype.add = function (control, accessor) {\n
this._accessors.push([control, accessor]);\n };\n /**\n * @description\n * Removes a control from
the internal registry. For internal use only.\n */\n RadioControlRegistry.prototype.remove = function
(accessor) {\n for (var i = this._accessors.length - 1; i >= 0; --i) {\n if (this._accessors[i][1] ===
accessor) {\n this._accessors.splice(i, 1);\n return;\n }\n }\n };\n
/**\n * @description\n * Selects a radio button. For internal use only.\n */\n
RadioControlRegistry.prototype.select = function (accessor) {\n var _this = this;\n
this._accessors.forEach(function
(c) {\n if (_this._isSameGroup(c, accessor) && c[1] !== accessor) {\n
c[1].fireUncheck(accessor.value);\n }\n });\n };\n
RadioControlRegistry.prototype._isSameGroup = function (controlPair, accessor) {\n if
(!controlPair[0].control)\n return false;\n return controlPair[0]._parent ===
accessor._control._parent &&\n controlPair[1].name === accessor.name;\n };\n
RadioControlRegistry = __decorate([\n core.Injectable()\n ], RadioControlRegistry);\n return
RadioControlRegistry;\n }());\n /**\n * @description\n * The `ControlValueAccessor` for writing radio
control values and listening to radio control\n * changes. The value accessor is used by the
`FormControlDirective`, `FormControlName`, and\n * `NgModel` directives.\n *\n * @usageNotes\n *\n
* ### Using radio buttons
with reactive form directives\n *\n * The follow example shows how to use radio buttons in a reactive form.
When using radio buttons in\n * a reactive form, radio buttons in the same group should have the same
`formControlName`.\n * Providing a `name` attribute is optional.\n *\n * {@example
forms/ts/reactiveRadioButtons/reactive_radio_button_example.ts region='Reactive'}\n *\n * @ngModule
ReactiveFormsModule\n * @ngModule FormsModule\n * @publicApi\n */\n var
RadioControlValueAccessor = /** @class */ (function () {\n function RadioControlValueAccessor(_renderer,
_elementRef, _registry, _injector) {\n this._renderer = _renderer;\n this._elementRef = _elementRef;\n
this._registry = _registry;\n this._injector = _injector;\n }\n /**\n * @description\n *
The registered callback function called when a change event occurs on the input element.\n */\n
this.onChange = function () { };\n /**\n * @description\n * The registered callback
function called when a blur event occurs on the input element.\n */\n this.onTouched = function () {\n
};\n }\n /**\n * @description\n * A lifecycle method called when the directive is initialized. For
internal use only.\n */\n RadioControlValueAccessor.prototype.ngOnInit = function () {\n
this._control = this._injector.get(NgControl);\n this._checkName();\n this._registry.add(this._control,
this);\n };\n /**\n * @description\n * Lifecycle method called before the directive's instance is
destroyed. For internal use only.\n */\n RadioControlValueAccessor.prototype.ngOnDestroy = function () {\n
this._registry.remove(this);\n };\n /**\n * @description\n * Sets the `checked` property value on the
radio
input element.\n *\n * @param value The checked value\n */\n
RadioControlValueAccessor.prototype.writeValue = function (value) {\n this._state = value === this.value;\n
this._renderer.setProperty(this._elementRef.nativeElement, 'checked', this._state);\n };\n /**\n *
@description\n * Registers a function called when the control value changes.\n *\n * @param fn The
callback function\n */\n RadioControlValueAccessor.prototype.registerOnChange = function (fn) {\n

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var _this = this;\n      this._fn = fn;\n      this.onChange = function () {\n          fn(_this.value);\n      }\n      _this._registry.select(_this);\n      }\n      }\n      /**\n      * Sets the \"value\" on the radio input element and\n      * unchecks it.\n      *\n      * @param value\n      */\n      RadioControlValueAccessor.prototype.fireUncheck =\n      function (value)\n      {\n          this.writeValue(value);\n      }\n      /**\n      * @description\n      * Registers a function called when the control is\n      * touched.\n      *\n      * @param fn The callback function\n      */\n      RadioControlValueAccessor.prototype.registerOnTouched = function (fn) {\n          this.onTouched = fn;\n      }\n      /**\n      * Sets the \"disabled\" property on the input element.\n      *\n      * @param isDisabled The disabled value\n      */\n      RadioControlValueAccessor.prototype.setDisabledState = function (isDisabled) {\n          this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\n      }\n      RadioControlValueAccessor.prototype._checkName = function () {\n          if (this.name &&\n              this.formControlName && this.name !== this.formControlName) {\n              this._throwNameError();\n          }\n          if (!this.name && this.formControlName)\n              this.name = this.formControlName;\n      }\n      RadioControlValueAccessor.prototype._throwNameError = function () {\n          throw new Error(\"If\n      you define both a name and a formControlName attribute on your radio button, their values\n      must match. Ex:\n      <input type='\"radio\"' formControlName='\"food\"' name='\"food\">\n      \");\n      }\n      __decorate([\n          core.Input(),\n          __metadata(\"design:type\", String)\n      ], RadioControlValueAccessor.prototype,\n      \"name\", void 0);\n      __decorate([\n          core.Input(),\n          __metadata(\"design:type\", String)\n      ],\n      RadioControlValueAccessor.prototype, \"formControlName\", void 0);\n      __decorate([\n          core.Input(),\n          __metadata(\"design:type\", Object)\n      ], RadioControlValueAccessor.prototype, \"value\", void 0);\n      RadioControlValueAccessor = __decorate([\n          core.Directive({\n              selector:\n              'input[type=radio][formControlName],input[type=radio][formControl],input[type=radio][ngModel]',\n              host: {\n                  (change): 'onChange()',\n                  (blur): 'onTouched()' \n              },\n              providers:\n              [RADIO_VALUE_ACCESSOR]\n          },\n          __metadata(\"design:paramtypes\", [core.Renderer2,\n          core.ElementRef,\n          RadioControlRegistry, core.Injector])),\n      ], RadioControlValueAccessor);\n      return RadioControlValueAccessor;\n    });\n    /**\n    * @license\n    * Copyright Google Inc. All Rights\n    * Reserved.\n    * Use of this source code is governed by an MIT-style license that can be\n    * found in the\n    * LICENSE file at https://angular.io/license\n    */\n    var RANGE_VALUE_ACCESSOR = {\n        provide:\n        NG_VALUE_ACCESSOR,\n        useExisting: core.forwardRef(function () { return RangeValueAccessor; }),\n        multi: true\n    };\n    /**\n    * @description\n    * The `ControlValueAccessor` for writing a range value and\n    * listening to range input changes.\n    * The value accessor\n    * is used by the `FormControlDirective`, `FormControlName`, and `NgModel`\n    * directives.\n    * \n    * @usageNotes\n    * ### Using a range input with a reactive form\n    * The following example shows\n    * how to use a range input with a reactive form.\n    * \n    * ```ts\n    * const ageControl = new FormControl();\n    * \n    * ```\n    * \n    * ```\n    * <input type='\"range\"' [formControl]='\"ageControl\">\n    * \n    * ```\n    * \n    * @ngModule\n    * ReactiveFormsModule\n    * @ngModule FormsModule\n    * @publicApi\n    */\n    var RangeValueAccessor =\n    /** @class */ (function () {\n        function RangeValueAccessor(_renderer, _elementRef) {\n            this._renderer =\n            _renderer;\n            this._elementRef =\n            _elementRef;\n        }\n        /**\n        * @description\n        * The\n        * registered callback function called when a change or input event occurs on the input\n        * element.\n        */\n        RangeValueAccessor.prototype.onChange = function () {\n        }\n        /**\n        * @description\n        * The registered callback function called when a blur event occurs on\n        * the input element.\n        */\n        RangeValueAccessor.prototype.onTouched = function () {\n        }\n        /**\n        * Sets the\n        * \"value\" property on the input element.\n        *\n        * @param value The checked value\n        */\n        RangeValueAccessor.prototype.writeValue = function (value) {\n            this._renderer.setProperty(this._elementRef.nativeElement, 'value', parseFloat(value));\n        }\n        /**\n        * \n        * @description\n        * Registers a function called when the control value changes.\n        *\n        * @param fn The\n        * callback function\n        */\n        RangeValueAccessor.prototype.registerOnChange = function (fn) {\n            this.onChange = function (value) {\n                fn(value === \"\" ? null : parseFloat(value));\n            }\n        }\n        /**\n        * \n        */\n    }());\n
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@description\n    * Registers a function called when the control\n    is touched.\n    *\n    * @param fn The callback function\n    */\n\nRangeValueAccessor.prototype.registerOnTouched = function (fn) { this.onTouched = fn; }; // Sets\nthe \"disabled\" property on the range input element.\n\n    * @param isDisabled The disabled value\n    */\n\nRangeValueAccessor.prototype.setDisabledState = function (isDisabled) {\n  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\n};\n\nRangeValueAccessor = __decorate([\n  core.Directive({\n    selector:\n    'input[type=range][formControlName],input[type=range][formControl],input[type=range][ngModel]',\n    host: {\n      '(change)': 'onChange($event.target.value)',\n      '(input)':\n      'onChange($event.target.value)',\n      '(blur)': 'onTouched()' \n    },\n    providers:\n    [RANGE_VALUE_ACCESSOR]\n  }]),\n  __metadata({\"design:paramtypes\": [core.Renderer2, core.ElementRef]})\n],\nRangeValueAccessor);\n\nreturn RangeValueAccessor;\n\n}));\n\n/**\n * @license\n * Copyright\n * Google Inc. All Rights Reserved.\n * Use of this source code is governed by an MIT-style license that can\n * be found in the LICENSE file at https://angular.io/license\n */\n\nvar FormErrorExamples = {\n  formControlName: `<div [formGroup]=\"myGroup\">\n  <input\n  formControlName=\"firstName\">\n  </div>\n\n  In your class:\n  this.myGroup = new FormGroup({\n    firstName: new FormControl()\n  });\n\n  formGroupName: `<div [formGroup]=\"myGroup\">\n  <div formGroupName=\"person\">\n  <input formControlName=\"firstName\">\n  </div>\n  </div>\n\n  In your class:\n  this.myGroup = new FormGroup({\n    person: new FormGroup({\n      firstName: new\n      FormControl()\n    })\n  });\n\n  formArrayName: `<div [formGroup]=\"myGroup\">\n  <div\n  formArrayName=\"cities\">\n  <div *ngFor=\"let city of cityArray.controls; index as i\">\n  <input\n  [formControlName]=\"i\">\n  </div>\n  </div>\n  </div>\n\n  In your class:\n  this.cityArray =\n  new FormArray([new FormControl('SF')]);\n  this.myGroup = new FormGroup({\n    cities: this.cityArray\n  });\n\n  ngModelGroup: `<form>\n  <div ngModelGroup=\"person\">\n  <input\n  [ngModel]=\"person.name\" name=\"firstName\">\n  </div>\n  </form>`\n\n  ngModelWithFormGroup: `<div [formGroup]=\"myGroup\">\n  <input\n  formControlName=\"firstName\">\n  <input [ngModel]=\"showMoreControls\">\n  [ngModelOptions]=\"{standalone: true}\">\n  </div>\n  `);\n\n  /**\n  * @license\n  * Copyright\n  * 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\n  * at https://angular.io/license\n  */\n\n  var ReactiveErrors = /** @class */ (function () {\n    function\n    ReactiveErrors() {\n      ReactiveErrors.controlParentException = function ()\n      throw new\n      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).\\n\\n\n      Example:\\n\\n\n      \" + FormErrorExamples.formControlName);\n\n      ReactiveErrors.ngModelGroupException = function ()\n      {\n        throw new Error(\"formControlName cannot be used with an ngModelGroup parent. It is only compatible\n        with parents\n        that also have a \"form\" prefix: formGroupName, formArrayName, or FormGroup.\\n\\n\n        Option 1: Update the parent to be formGroupName (reactive form strategy)\\n\\n\n        \" + FormErrorExamples.formGroupName + \"\\n\\n\n        Option 2: Use ngModel instead of formControlName\n        (template-driven strategy)\\n\\n\n        \" + FormErrorExamples.ngModelGroup);\n      };\n\n      ReactiveErrors.missingFormException = function () {\n        throw new Error(\"formGroup expects a FormGroup\n        instance. Please pass one in.\\n\\n\n        Example:\\n\\n\n        \" + FormErrorExamples.formControlName);\n      };\n\n      ReactiveErrors.groupParentException = function () {\n        throw new Error(\"formGroupName must be used\n        with a parent formGroup directive. You'll want to add a formGroup\n        directive and pass it an existing\n        FormGroup instance (you can create one in your class).\\n\\n\n        Example:\\n\\n\n        \" +\n        FormErrorExamples.formGroupName);\n      };\n\n      ReactiveErrors.arrayParentException = function () {\n
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throw new Error("formArrayName must be used with a parent formGroup directive. You'll want to add a formGroup\n\n

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directive and pass it an existing FormGroup instance (you can create one in your class).\n\n Example:\n\n\n |\" + FormErrorExamples.formArrayName);\n |};\n |ReactiveErrors.disabledAttrWarning = function () {\n |console.warn(\" It looks like you're using the disabled attribute with a reactive form directive. If you set\n |disabled to true\n |when you set up this control in your component class, the disabled attribute will actually be set\n |in the DOM for\n |you. We recommend using this approach to avoid 'changed after checked' errors.\n |\n |\n |Example:\n |form = new FormGroup({\n |first: new FormControl({value: 'Nancy', disabled: true},\n |Validators.required),\n |last: new FormControl('Drew', Validators.required)\n |});\n |});\n |ReactiveErrors.ngModelWarning = function (directiveName) {\n |console.warn(\" It looks like you're\n |using ngModel on the same form field as
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|\" + 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/\n |\" + (directiveName ===\n |'FormControl' ? 'FormControlDirective'\n | : 'FormControlName') + \"#use-with-ngmodel\n |\"});\n |};\n |return ReactiveErrors;\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\n |https://angular.io/license\n | *\n |var SELECT_VALUE_ACCESSOR = {\n |provide:\n |NG_VALUE_ACCESSOR,\n |useExisting: core.forwardRef(function () { return SelectControlValueAccessor;\n |}),\n |multi: true\n |};\n |function _buildValueString(id, value) {\n |if (id ==\n |null)\n |return \"\" + value;\n |if (value && typeof value === 'object')\n |value = 'Object';\n |return (id + \": \" + value).slice(0, 50);\n |}\n |function _extractId(valueString) {\n |return\n |valueString.split(':')[0];\n |}\n |/**\n | * @description\n | * The `ControlValueAccessor` for writing select\n |control values and listening to select control\n | * changes. The value accessor is used by the\n |`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\n |in a reactive form.\n | *\n | * {@example forms/ts/reactiveSelectControl/reactive_select_control_example.ts\n |region='Component'}\n | *\n | * ### Using select controls in a template-driven form\n | *\n | * To use a select\n |in a template-driven form, simply add an `ngModel` and a `name`\n | * attribute\n |to the main `<select>` tag.\n | *\n | * {@example forms/ts/selectControl/select_control_example.ts\n |region='Component'}\n | *\n | * ### Customizing option selection\n | *\n | * Angular uses object identity to\n |select option. It's possible for the identities of items\n | * to change while the data does not. This can happen, for\n |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\n |changed, the\n | * second response will produce objects with different identities.\n | *\n | * To customize the\n |default option comparison algorithm, `<select>` supports `compareWith` input.\n | * `compareWith` takes a\n |**function** which has two arguments: `option1` and `option2`.\n | * If `compareWith` is given, Angular selects\n |option by the return value of the function.\n | *\n | * ``ts\n | * const selectedCountriesControl = new\n |FormControl();\n | * ``\n | *\n | * ``\n | * <select [compareWith]=\"compareFn\"\n | [formControl]=\"selectedCountriesControl\">\n | * <option *ngFor=\"let country of countries\"\n | [ngValue]=\"country\">\n | * {{country.name}}\n | * </option>\n | * </select>\n | *\n | *\n | * compareFn(c1: Country, c2: Country): boolean {\n | * return c1 && c2 ? c1.id === c2.id : c1 === c2;\n | * }\n | *\n | * ``\n | *\n | * **Note:** We listen to the 'change' event because 'input' events aren't fired\n | * for selects in\n |Firefox and IE;\n | * https://bugzilla.mozilla.org/show_bug.cgi?id=1024350\n | *\n |https://developer.microsoft.com/en-us/microsoft-edge/platform/issues/4660045/\n | *\n | * @ngModule\n |ReactiveFormsModule\n | * @ngModule FormsModule\n | * @publicApi\n | *\n |var\n |SelectControlValueAccessor = /** @class */ (function () {\n |function SelectControlValueAccessor(_renderer,\n |_elementRef) {\n |this._renderer = _renderer;\n |this._elementRef = _elementRef;\n |/**\n | * @internal\n | *\n |this._optionMap
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= new Map();\n      /** @internal */\n      this._idCounter = 0;\n      /**\n      * @description\n      * The registered callback function called when a change event occurs on the input element.\n      */\n      this.onChange = function (_) { };\n      /**\n      * @description\n      * The registered callback function called when a blur event occurs on the input element.\n      */\n      this.onTouched = function () { };\n      this._compareWith = core.looseIdentical;\n    }\n    Object.defineProperty(SelectControlValueAccessor.prototype, "compareWith", {\n      /**\n      * @description\n      * Tracks the option comparison algorithm for tracking identities when\n      * checking for changes.\n      */\n      set: function (fn) {\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      enumerable: true,\n      configurable: true\n    });\n    /**\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    */\n    * @param value The checked value\n    */\n    SelectControlValueAccessor.prototype.writeValue = function (value) {\n      this.value = value;\n      var id = this._getOptionId(value);\n      if (id == null) {\n        this._renderer.setProperty(this._elementRef.nativeElement, 'selectedIndex', -1);\n      }\n      var valueString = _buildValueString(id, value);\n      this._renderer.setProperty(this._elementRef.nativeElement, 'value', valueString);\n    };\n    /**\n    * @description\n    * Registers a function called when the control value changes.\n    */\n    * @param fn The callback function\n    */\n    SelectControlValueAccessor.prototype.registerOnChange = function (fn) {\n      var _this = this;\n      this.onChange = function (valueString) {\n        _this.value = _this._getOptionValue(valueString);\n        fn(_this.value);\n      };\n    };\n    /**\n    * @description\n    * Registers a function called when the control is touched.\n    */\n    * @param fn The callback function\n    */\n    SelectControlValueAccessor.prototype.registerOnTouched = function (fn) {\n      this.onTouched = fn;\n    };\n    /**\n    * Sets the "disabled" property on the select input element.\n    */\n    * @param isDisabled The disabled value\n    */\n    SelectControlValueAccessor.prototype.setDisabledState = function (isDisabled) {\n      this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\n    };\n    /** @internal */\n    SelectControlValueAccessor.prototype._registerOption = function () {\n      return (this._idCounter++).toString();\n    };\n    /** @internal */\n    SelectControlValueAccessor.prototype._getOptionId = function (value) {\n      var e_1, _a;\n      try {\n        for (var _b = __values(Array.from(this._optionMap.keys())), _c = _b.next(); !_c.done; _c = _b.next()) {\n          var id = _c.value;\n          if (this._compareWith(this._optionMap.get(id), value))\n            return id;\n        }\n      } catch (e_1_1) {\n        e_1 = { error: e_1_1 };\n      } finally {\n        try {\n          if (_c && !_c.done && (_a = _b.return))\n            _a.call(_b);\n        } finally {\n          if (e_1) throw e_1.error;\n        }\n      }\n      return null;\n    };\n    /** @internal */\n    SelectControlValueAccessor.prototype._getOptionValue = function (valueString) {\n      var id = _extractId(valueString);\n      return this._optionMap.has(id) ? this._optionMap.get(id) : valueString;\n    };\n    __decorate([core.Input(), __metadata({"design:type": Function}), __metadata({"design:paramtypes": [Function]})], SelectControlValueAccessor.prototype, "compareWith", null);\n    SelectControlValueAccessor = __decorate([core.Directive({\n      selector: 'select:not([multiple])[formControlName],select:not([multiple])[formControl],select:not([multiple])[ngModel]',\n      host: {\n        '(change)': 'onChange($event.target.value)',\n        '(blur)': 'onTouched()'
      },\n      providers: [SELECT_VALUE_ACCESSOR],\n      __metadata({"design:paramtypes": [core.Renderer2, core.ElementRef]})
    }], SelectControlValueAccessor);\n    return SelectControlValueAccessor;\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  var NgSelectOption = /** @class */ (function () {\n    function

```



```

NgSelectOption(_element, _renderer, _select) {\n      this._element = _element;\n      this._renderer =\n      _renderer;\n      this._select = _select;\n      if (this._select)\n        this.id =\n        this._select._registerOption();\n    }\n    Object.defineProperty(NgSelectOption.prototype, \"ngValue\", {\n      /**\n       * @description\n       * Tracks the value bound to the option element. Unlike the value binding,\n       * ngValue supports binding to objects.\n       */\n      set: function (value) {\n        if (this._select\n        == null)\n          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      enumerable: true,\n      configurable: true\n    });\n    Object.defineProperty(NgSelectOption.prototype, \"value\", {\n      /**\n       * @description\n       * Tracks simple string values bound to the option element.\n       * For objects, use the `ngValue` input\n       binding.\n       */\n      set: function (value) {\n        this._setElementValue(value);\n        if\n        (this._select)\n          this._select.writeValue(this._select.value);\n      },\n      enumerable: true,\n      configurable: true\n    });\n    /** @internal */\n    NgSelectOption.prototype._setElementValue = function\n    (value) {\n      this._renderer.setProperty(this._element.nativeElement, 'value', value);\n    };\n    /**\n     * @description\n     * Lifecycle method called before the directive's instance is\n     destroyed. For internal use only.\n     */\n    NgSelectOption.prototype.ngOnDestroy = function () {\n      if\n      (this._select) {\n        this._select._optionMap.delete(this.id);\n        this._select.writeValue(this._select.value);\n      }\n    };\n    __decorate([\n      core.Input('ngValue'),\n      __metadata(\"design:type\", Object),\n      __metadata(\"design:paramtypes\", [Object])\n    ],\n    NgSelectOption.prototype, \"ngValue\", null);\n    __decorate([\n      core.Input('value'),\n      __metadata(\"design:type\", Object),\n      __metadata(\"design:paramtypes\", [Object])\n    ],\n    NgSelectOption.prototype, \"value\", null);\n    NgSelectOption = __decorate([\n      core.Directive({ selector:\n      'option' }),\n      __param(2, core.Optional()),\n      __param(2,\n      core.Host()),\n      __metadata(\"design:paramtypes\", [core.ElementRef, core.Renderer2,\n      SelectControlValueAccessor])\n    ], NgSelectOption);\n    return NgSelectOption;\n  }());\n  /**\n   * @license\n   * Copyright Google Inc. All Rights Reserved.\n   * Use of this source code is governed by an\n   MIT-style license that can be\n   found in the LICENSE file at https://angular.io/license\n   */\n  var\n  SELECT_MULTIPLE_VALUE_ACCESSOR = {\n    provide: NG_VALUE_ACCESSOR,\n    useExisting:\n    core.forwardRef(function () { return SelectMultipleControlValueAccessor; }),\n    multi: true\n  };\n  function\n  _buildValueString$(id, value) {\n    if (id == null)\n      return \"\" + value;\n    if (typeof value ===\n    'string')\n      value = \"\" + value + \"\";\n    if (value && typeof value === 'object')\n      value =\n      'Object';\n    return (id + \": \" + value).slice(0, 50);\n  }\n  function\n  _extractId$(valueString) {\n    return valueString.split(':')[0];\n  }\n  /** Mock interface for HTMLCollection\n   */\n  var HTMLCollection = /** @class */ (function () {\n    function HTMLCollection() {\n    }\n    return\n    HTMLCollection;\n  }());\n  /**\n   * @description\n   * The `ControlValueAccessor` for writing multi-select\n   control values and listening to multi-select control\n   changes. The value accessor is used by the\n   `FormControlDirective`, `FormControlName`, and `NgModel`\n   directives.\n   */\n  /** @see\n   `SelectControlValueAccessor`\n   */\n  /** @usageNotes\n   * ### Using a multi-select control\n   *\n   * The follow example shows you how to use a multi-select control with a reactive form.\n   *\n   * ``ts\n   * const\n   countryControl = new FormControl();\n   *\n   * ``\n   * <select multiple name=\"countries\"\n   [formControl]=\"countryControl\">\n   *   <option *ngFor=\"let country of countries\"\n   [ngValue]=\"country\">\n   *     {{ country.name }}\n   *   </option>\n   * </select>\n   * ``\n   *\n   * ###\n   Customizing option selection\n   *\n   * To customize the default option comparison algorithm, `<select>`\n   supports `compareWith` input.\n   * See the `SelectControlValueAccessor` for usage.\n   */\n  /** @ngModule\n   ReactiveFormsModule\n   */\n  /** @ngModule\n   FormsModule\n   */\n  /** @publicApi\n   */\n  var\n  SelectMultipleControlValueAccessor = /** @class */ (function () {\n    function\n    SelectMultipleControlValueAccessor(_renderer, _elementRef) {\n      this._renderer = _renderer;\n      this._elementRef = _elementRef;\n      /** @internal */\n      this._optionMap = new Map();\n      /**

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@internal *\n      this._idCounter = 0;\n      /**\n      * @description\n      * The registered callback
function called when a change event occurs on the input element.\n      *\n      this.onChange
= function (_) { };\n      /**\n      * @description\n      * The registered callback function called when a
blur event occurs on the input element.\n      *\n      this.onTouched = function () { };\n
this._compareWith = core.looseIdentical;\n      }\n
Object.defineProperty(SelectMultipleControlValueAccessor.prototype, \"compareWith\", {\n      /**\n      *
@description\n      * Tracks the option comparison algorithm for tracking identities when\n      * checking
for changes.\n      *\n      set: function (fn) {\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      enumerable: true,\n      configurable: true\n      });\n      /**\n
* @description\n      * Sets the \"value\" property
on one or of more\n      * of the select's options.\n      *\n      * @param value The value\n      *\n
SelectMultipleControlValueAccessor.prototype.writeValue = function (value) {\n      var _this = this;\n
this.value = value;\n      var optionSelectedStateSetter;\n      if (Array.isArray(value)) {\n      // convert
values to ids\n      var ids_1 = value.map(function (v) { return _this._getOptionId(v); });\n
optionSelectedStateSetter = function (opt, o) { opt._setSelected(ids_1.indexOf(o.toString()) > -1); }; }\n
else {\n      optionSelectedStateSetter = function (opt, o) { opt._setSelected(false); }; }\n
this._optionMap.forEach(optionSelectedStateSetter);\n      }; \n      /**\n      * @description\n      * Registers a
function called when the control value changes\n      * and writes an array of the selected options.\n
*\n      * @param fn The callback function\n      *\n
SelectMultipleControlValueAccessor.prototype.registerOnChange = function (fn) {\n      var _this = this;\n
this.onChange = function (_) {\n      var selected = [];\n      if (_.hasOwnProperty('selectedOptions')) {\n
var options = _.selectedOptions;\n      for (var i = 0; i < options.length; i++) {\n      var
opt = options.item(i);\n      var val = _this._getOptionValue(opt.value);\n
selected.push(val);\n      }\n      }\n      // Degrade on IE\n      else {\n      var
options = _.options;\n      for (var i = 0; i < options.length; i++) {\n      var opt =
options.item(i);\n      if (opt.selected) {\n      var val = _this._getOptionValue(opt.value);\n
selected.push(val);\n      }\n      }\n      }\n      _this.value = selected;\n
fn(selected);\n      }; \n      }; \n      /**\n      * @description\n      * Registers a function called when the
control is touched.\n      *\n      * @param fn The callback function\n      *\n
SelectMultipleControlValueAccessor.prototype.registerOnTouched = function (fn) { this.onTouched = fn; }; \n
/**\n      * Sets the \"disabled\" property on the select input element.\n      *\n      * @param isDisabled The
disabled value\n      *\n      SelectMultipleControlValueAccessor.prototype.setDisabledState = function
(isDisabled) {\n      this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\n      }; \n
/** @internal *\n      SelectMultipleControlValueAccessor.prototype._registerOption = function (value) {\n
var id = (this._idCounter++).toString();\n
this._optionMap.set(id, value);\n      return id;\n      }; \n      /** @internal *\n
SelectMultipleControlValueAccessor.prototype._getOptionId = function (value) {\n      var e_1, _a;\n      try
{\n      for (var _b = __values(Array.from(this._optionMap.keys())), _c = _b.next(); !_c.done; _c = _b.next())
{\n      var id = _c.value;\n      if (this._compareWith(this._optionMap.get(id)._value, value))\n
return id;\n      }\n      }\n      catch (e_1_1) { e_1 = { error: e_1_1 }; }\n      finally {\n
try {\n      if (_c && !_c.done && (_a = _b.return)) _a.call(_b);\n      }\n      finally { if
(e_1) throw e_1.error; }\n      }\n      return null;\n      }; \n      /** @internal *\n
SelectMultipleControlValueAccessor.prototype._getOptionValue = function (valueString)
{\n      var id = _extractId$1(valueString);\n      return this._optionMap.has(id) ?
this._optionMap.get(id)._value : valueString;\n      }; \n      __decorate([\n      core.Input(),\n
__metadata(\"design:type\", Function),\n      __metadata(\"design:paramtypes\", [Function])\n      ],

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SelectMultipleControlValueAccessor.prototype, 'compareWith', null);
SelectMultipleControlValueAccessor = __decorate([
    core.Directive({ selector:
'select[multiple][formControlName],select[multiple][formControl],select[multiple][ngModel]',
    host: {
'change': 'onChange($event.target)', 'blur': 'onTouched()' },
    providers:
[SELECT_MULTIPLE_VALUE_ACCESSOR]
    }),
    __metadata({"design:paramtypes",
[core.Renderer2, core.ElementRef]}),
    SelectMultipleControlValueAccessor);
return
SelectMultipleControlValueAccessor;
})();
/**
 * @description
 * Marks `<option>` as dynamic, so Angular can be notified when options change.
 * @see
`SelectMultipleControlValueAccessor`
 * @ngModule ReactiveFormsModule
 * @ngModule
FormsModule
 * @publicApi
 */
var NgSelectMultipleOption = /** @class */ (function () {
function NgSelectMultipleOption(_element, _renderer, _select) {
    this._element = _element;
    this._renderer = _renderer;
    this._select = _select;
    if (this._select) {
        this.id =
this._select._registerOption(this);
    }
}
Object.defineProperty(NgSelectMultipleOption.prototype, 'ngValue', {
    /**
 * @description
 * Tracks the value bound to the option element. Unlike the value binding,
 * ngValue supports binding
to objects.
 */
    set: function (value) {
        if (this._select == null)
return;
        this._value = value;
        this._setElementValue(_buildValueString$(this.id,
value));
        this._select.writeValue(this._select.value);
    },
    enumerable: true,
    configurable: true
});
Object.defineProperty(NgSelectMultipleOption.prototype, 'value', {
    /**
 * @description
 * Tracks simple string values bound to the option element.
 * For
objects, use the `ngValue` input binding.
 */
    set: function (value) {
        if (this._select) {
            this._value = value;
            this._setElementValue(_buildValueString$(this.id, value));
            this._select.writeValue(this._select.value);
        }
        else {
            this._setElementValue(value);
        }
    },
    enumerable: true,
    configurable: true
});
/** @internal */
NgSelectMultipleOption.prototype._setElementValue
= function (value) {
    this._renderer.setProperty(this._element.nativeElement, 'value', value);
};
/** @internal */
NgSelectMultipleOption.prototype._setSelected = function (selected) {
    this._renderer.setProperty(this._element.nativeElement, 'selected', selected);
};
/**
 * @description
 * Lifecycle method called before the directive's instance is destroyed. For internal use only.
 */
NgSelectMultipleOption.prototype.ngOnDestroy = function () {
    if (this._select) {
        this._select._optionMap.delete(this.id);
        this._select.writeValue(this._select.value);
    }
};
__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 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
 */
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

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(dir.valueAccessor.setDisabledState) {\n      control.registerOnDisabledChange(function (isDisabled) {\n
dir.valueAccessor.setDisabledState(isDisabled); });\n      }\n      // re-run validation when validator binding
changes, e.g. minlength=3 -> minlength=4\n      dir._rawValidators.forEach(function (validator)
{\n      if (validator.registerOnValidatorChange)\n      validator.registerOnValidatorChange(function () {\n
return control.updateValueAndValidity(); });\n      });\n      dir._rawAsyncValidators.forEach(function (validator)
{\n      if (validator.registerOnValidatorChange)\n      validator.registerOnValidatorChange(function () {\n
return control.updateValueAndValidity(); });\n      });\n      }\n      function cleanUpControl(control, dir) {\n
dir.valueAccessor.registerOnChange(function () { return _noControlError(dir); });\n
dir.valueAccessor.registerOnTouched(function () { return _noControlError(dir); });\n
dir._rawValidators.forEach(function (validator) {\n      if (validator.registerOnValidatorChange) {\n
validator.registerOnValidatorChange(null);\n      }\n      });\n      dir._rawAsyncValidators.forEach(function
(validator) {\n      if (validator.registerOnValidatorChange) {\n
validator.registerOnValidatorChange(null);\n
      }\n      });\n      if (control)\n      control._clearChangeFns();\n      }\n      function
setUpViewChangePipeline(control, dir) {\n      dir.valueAccessor.registerOnChange(function (newValue) {\n
control._pendingValue = newValue;\n      control._pendingChange = true;\n      control._pendingDirty =
true;\n      if (control.updateOn === 'change')\n      updateControl(control, dir);\n      });\n      }\n      function
setUpBlurPipeline(control, dir) {\n      dir.valueAccessor.registerOnTouched(function () {\n
control._pendingTouched = true;\n      if (control.updateOn === 'blur' && control._pendingChange)\n
updateControl(control, dir);\n      if (control.updateOn !== 'submit')\n      control.markAsTouched();\n
});\n      }\n      function updateControl(control, dir) {\n      if (control._pendingDirty)\n
control.markAsDirty();\n
      control.setValue(control._pendingValue, { emitModelToViewChange: false });\n
dir.viewToModelUpdate(control._pendingValue);\n      control._pendingChange = false;\n      }\n      function
setUpModelChangePipeline(control, dir) {\n      control.registerOnChange(function (newValue, emitModelEvent)
{\n      // control -> view\n      dir.valueAccessor.writeValue(newValue);\n      // control -> ngModel\n
if (emitModelEvent)\n      dir.viewToModelUpdate(newValue);\n      });\n      }\n      function
setUpFormContainer(control, dir) {\n      if (control == null)\n      _throwError(dir, 'Cannot find control
with');\n      control.validator = Validators.compose([control.validator, dir.validator]);\n      control.asyncValidator
= Validators.composeAsync([control.asyncValidator, dir.asyncValidator]);\n      }\n      function _noControlError(dir)
{\n      return _throwError(dir, 'There is no FormControl instance attached to form control
element with');\n      }\n      function _throwError(dir, message) {\n      var messageEnd;\n      if (dir.path.length > 1)
{\n      messageEnd = \"path: \" + dir.path.join(' -> ') + \"\";\n      }\n      else if (dir.path[0]) {\n
messageEnd = \"name: \" + dir.path + \"\";\n      }\n      else {\n      messageEnd = 'unspecified name
attribute';\n      }\n      throw new Error(message + \" \" + messageEnd);\n      }\n      function
composeValidators(validators) {\n      return validators != null ?
Validators.compose(validators.map(normalizeValidator)) : null;\n      }\n      function
composeAsyncValidators(validators) {\n      return validators != null ?
Validators.composeAsync(validators.map(normalizeAsyncValidator)) :\n      null;\n      }\n      function
isPropertyUpdated(changes, viewModel) {\n      if (!changes.hasOwnProperty('model'))\n      return false;\n
var change = changes['model'];\n      if (change.isFirstChange())\n
return true;\n      return !core.looseIdentical(viewModel, change.currentValue);\n      }\n      var
BUILTIN_ACCESSORS = [\n      CheckboxControlValueAccessor,\n      RangeValueAccessor,\n
NumberValueAccessor,\n      SelectControlValueAccessor,\n      SelectMultipleControlValueAccessor,\n
RadioControlValueAccessor,\n      ];\n      function isBuiltInAccessor(valueAccessor) {\n      return
BUILTIN_ACCESSORS.some(function (a) { return valueAccessor.constructor === a; });\n      }\n      function
syncPendingControls(form, directives) {\n      form._syncPendingControls();\n      directives.forEach(function
(dir) {\n      var control = dir.control;\n      if (control.updateOn === 'submit' && control._pendingChange)

```

```

{\n      dir.viewToModelUpdate(control._pendingValue);\n      control._pendingChange = false;\n}\n  });\n }\n // TODO: vsavkin remove it once https://github.com/angular/angular/issues/3011 is
implemented\n
function selectValueAccessor(dir, valueAccessors) {\n  if (!valueAccessors)\n    return null;\n  if
(!Array.isArray(valueAccessors))\n    _throwError(dir, 'Value accessor was not provided as an array for form
control with');\n  var defaultAccessor = undefined;\n  var builtinAccessor = undefined;\n  var
customAccessor = undefined;\n  valueAccessors.forEach(function (v) {\n    if (v.constructor ===
DefaultValueAccessor) {\n      defaultAccessor = v;\n    }\n    else if (isBuiltInAccessor(v)) {\n
    if (builtinAccessor)\n      _throwError(dir, 'More than one built-in value accessor matches form control
with');\n      builtinAccessor = v;\n    }\n    else {\n      if (customAccessor)\n        _throwError(dir, 'More than one custom value accessor matches form control with');\n      customAccessor =
v;\n    }\n  });\n  if (customAccessor)\n    return customAccessor;\n  if (builtinAccessor)\n
return builtinAccessor;\n  if (defaultAccessor)\n    return defaultAccessor;\n  _throwError(dir, 'No valid
value accessor for form control with');\n  return null;\n }\n function removeDir(list, el) {\n  var index =
list.indexOf(el);\n  if (index > -1)\n    list.splice(index, 1);\n }\n // TODO(kara): remove after
deprecation period\n function _ngModelWarning(name, type, instance, warningConfig) {\n  if
(!core.isDevMode() || warningConfig === 'never')\n    return;\n  if (((warningConfig === null ||
warningConfig === 'once') && !type._ngModelWarningSentOnce) ||\n    (warningConfig === 'always' &&
!instance._ngModelWarningSent)) {\n    ReactiveErrors.ngModelWarning(name);\n    type._ngModelWarningSentOnce = true;\n    instance._ngModelWarningSent = true;\n  }\n }\n /**\n  * @license\n  * Copyright Google Inc. All Rights Reserved.\n  *\n  * Use of this
source code is governed by an MIT-style license that can be\n  * found in the LICENSE file at
https://angular.io/license\n  *\n  /**\n  * Reports that a FormControl is valid, meaning that no errors exist in
the input value.\n  *\n  * @see `status`\n  *\n  var VALID = 'VALID';\n  /**\n  * Reports that a
FormControl is invalid, meaning that an error exists in the input value.\n  *\n  * @see `status`\n  *\n  var
INVALID = 'INVALID';\n  /**\n  * Reports that a FormControl is pending, meaning that that async validation is
occurring and\n  * errors are not yet available for the input value.\n  *\n  * @see `markAsPending`\n  * @see
`status`\n  *\n  var PENDING = 'PENDING';\n  /**\n  * Reports that a FormControl is disabled, meaning that
the control is exempt from ancestor\n  * calculations of validity
or value.\n  *\n  * @see `markAsDisabled`\n  * @see `status`\n  *\n  var DISABLED = 'DISABLED';\n
function _find(control, path, delimiter) {\n  if (path === null)\n    return null;\n  if (!Array.isArray(path))\n
{\n    path = path.split(delimiter);\n  }\n  if (Array.isArray(path) && path.length === 0)\n    return
null;\n  // Not using Array.reduce here due to a Chrome 80 bug\n  //
https://bugs.chromium.org/p/chromium/issues/detail?id=1049982\n  var controlToFind = control;\n
path.forEach(function (name) {\n    if (controlToFind instanceof FormGroup) {\n      controlToFind =
controlToFind.controls.hasOwnProperty(name) ?\n        controlToFind.controls[name] :\n        null;\n    }\n    else if (controlToFind instanceof FormArray) {\n      controlToFind = controlToFind.at(name)\n    }\n  });\n  return controlToFind;\n }\n function
coerceToValidator(validatorOrOpts) {\n  var validator = (isOptionsObj(validatorOrOpts) ?
validatorOrOpts.validators :\n    validatorOrOpts);\n  return Array.isArray(validator) ?
composeValidators(validator) : validator || null;\n }\n function coerceToAsyncValidator(asyncValidator,
validatorOrOpts) {\n  var origAsyncValidator = (isOptionsObj(validatorOrOpts) ?
validatorOrOpts.asyncValidators :\n    asyncValidator);\n  return Array.isArray(origAsyncValidator) ?
composeAsyncValidators(origAsyncValidator) :\n    origAsyncValidator || null;\n }\n function
isOptionsObj(validatorOrOpts) {\n  return validatorOrOpts != null && !Array.isArray(validatorOrOpts) &&\n
typeof validatorOrOpts === 'object';\n }\n /**\n  * 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. @see [Forms  

  Guide](/guide/forms) @see [Reactive Forms Guide](/guide/reactive-forms) @see [Dynamic Forms  

  Guide](/guide/dynamic-form)  

  @publicApi  

  ^\n var AbstractControl = /** @class */ (function ()  

  {\n   /**  

   * Initialize the AbstractControl instance.  

   * @param validator The function that  

   determines the synchronous validity of this control.  

   * @param asyncValidator The function that determines  

the asynchronous validity of this control.  

   ^\n   function AbstractControl(validator,  

  asyncValidator) {\n     this.validator = validator;\n  

     this.asyncValidator = asyncValidator;\n     /** @internal */  

     this._onCollectionChange = function  

  () { };  

   /**  

   * A control is `pristine` if the user has not yet changed  

the value in the UI.  

   * @returns True if the user has not yet changed the value in the UI; compare `dirty`.  

   *  

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

   ^\n     this.pristine = true;\n  

   /**  

   * True if the control is marked as `touched`.  

   * A control is marked `touched` once  

the user has triggered  

a `blur` event on it.  

   ^\n     this.touched = false;\n     /**  

   @internal */  

     this._onDisabledChange = [];\n     }\n     Object.defineProperty(AbstractControl.prototype,  

  "parent", {\n     /**  

     * The parent control.  

   ^\n     get: function () { return this._parent; },\n     enumerable: true,\n     configurable: true\n     });\n     Object.defineProperty(AbstractControl.prototype, "valid", {\n     /**  

     * A control is `valid` when its  

`status` is `VALID`.  

     * @see {@link AbstractControl.status}  

     * @returns  

True if the control has passed all of its validation tests,  

     * false otherwise.  

   ^\n     get: function  

  () { return this.status === VALID; },\n     enumerable: true,\n     configurable: true\n     });\n     Object.defineProperty(AbstractControl.prototype, "invalid", {\n     /**  

     * A control is `invalid` when  

its `status` is `INVALID`.  

     * @see {@link AbstractControl.status}  

     * @returns  

True if this control has failed one or more of its validation checks,  

     * false otherwise.  

   ^\n     get: function () { return this.status === INVALID; },\n     enumerable: true,\n     configurable: true\n     });\n     Object.defineProperty(AbstractControl.prototype, "pending", {\n     /**  

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

     * @see {@link  

AbstractControl.status}  

     * @returns True if this control is in the process of conducting a  

validation check,  

     * false otherwise.  

   ^\n     get: function () { return this.status === PENDING;  

  },\n     enumerable: true,\n     configurable: true\n     });\n     Object.defineProperty(AbstractControl.prototype, "disabled", {\n     /**  

     * A control is `disabled`  

when its `status` is `DISABLED`.  

     * Disabled controls are exempt from validation checks and  

     * are not included in the aggregate  

value of their ancestor  

controls.  

     * @see {@link AbstractControl.status}  

     * @returns True if the control is disabled, false otherwise.  

   ^\n     get: function () { return  

this.status === DISABLED; },\n     enumerable: true,\n     configurable: true\n     });\n     Object.defineProperty(AbstractControl.prototype, "enabled", {\n     /**  

     * A control is `enabled` as  

long as its `status` is not `DISABLED`.  

     * @returns True if the control has any status other than  

'DISABLED',  

     * false if the status is 'DISABLED'.  

     * @see {@link  

AbstractControl.status}  

     * @returns True if the control has any status other than  

'DISABLED',  

     * false if the status is 'DISABLED'.  

   ^\n     get: function () { return this.status !== DISABLED; },\n     enumerable: true,\n     configurable: true\n     });\n     Object.defineProperty(AbstractControl.prototype,  

  "dirty", {\n     /**  

     * A control is `dirty` if the user has changed the value  

in the UI.  

     * @returns True if the user has changed the value of this control in the UI; compare `pristine`.  

     *  

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

   ^\n     get: function () { return  

!this.pristine; },\n     enumerable: true,\n     configurable: true\n     });\n     Object.defineProperty(AbstractControl.prototype, "untouched", {\n     /**  

     * True if the control has

```

```

not been marked as touched\n
*\n
* A control is `untouched` if the user has not yet triggered\n
* a `blur` event on it.\n
*\n
get: function () { return !this.touched; },\n
enumerable: true,\n
configurable: true\n
});\n
Object.defineProperty(AbstractControl.prototype, `updateOn`, {\n
/**\n
* Reports the update strategy of the `AbstractControl` (meaning\n
* the event on which\n
the control updates itself).\n
* Possible values: `change` | `blur` | `submit`\n
* Default value:\n
`change`\n
*\n
get: function () {\n
return this._updateOn ? this._updateOn : (this.parent ?\n
this.parent.updateOn : `change`);\n
},\n
enumerable: true,\n
configurable: true\n
});\n
/**\n
* Sets the synchronous validators that are active on this control. Calling\n
* this overwrites any\n
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
AbstractControl.prototype.setValidators = function (newValidator) {\n
this.validator =\n
coerceToValidator(newValidator);\n
};\n
/**\n
* Sets the async validators that are active on this control. Calling this\n
* overwrites\n
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
AbstractControl.prototype.setAsyncValidators = function (newValidator) {\n
this.asyncValidator =\n
coerceToAsyncValidator(newValidator);\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\n
new validation to take effect.\n
*\n
*\n
AbstractControl.prototype.clearValidators = function () {\n
this.validator = null; }; \n
/**\n
* Empties out the async validator list.\n
*\n
* When you add or\n
remove a validator at run time,\n
you must call\n
* `updateValueAndValidity()` for the new validation to take effect.\n
*\n
*\n
AbstractControl.prototype.clearAsyncValidators = function () { this.asyncValidator = null; }; \n
/**\n
* Marks the control as `touched`. A control is touched by focus and\n
* blur events that do not change the\n
value.\n
*\n
* @see `markAsUntouched()`\n
* @see `markAsDirty()`\n
* @see\n
`markAsPristine()`\n
*\n
* @param opts Configuration options that determine how the control propagates\n
changes\n
* and emits events after marking is applied.\n
* * `onlySelf`: When true, mark only this control.\n
When false or not supplied,\n
* marks all direct ancestors. Default is false.\n
*\n
*\n
AbstractControl.prototype.markAsTouched = function (opts) {\n
if (opts === void 0) { opts = {}; }\n
this.touched = true;\n
if (this._parent && !opts.onlySelf)\n
{\n
this._parent.markAsTouched(opts);\n
}\n
};\n
/**\n
* Marks the control and all its\n
descendant controls as `touched`.\n
* @see `markAsTouched()`\n
*\n
*\n
AbstractControl.prototype.markAllAsTouched = function () {\n
this.markAsTouched({ onlySelf: true });\n
this._forEachChild(function (control) { return control.markAllAsTouched(); });\n
};\n
/**\n
* Marks the control as `untouched`.\n
*\n
* If the control has any children, also marks all children as\n
`untouched`\n
* and recalculates the `touched` status of all parent controls.\n
*\n
*\n
* @see\n
`markAsTouched()`\n
* @see `markAsDirty()`\n
* @see `markAsPristine()`\n
*\n
* @param\n
opts Configuration options that determine how the control propagates changes\n
* and emits events after the\n
marking is applied.\n
* * `onlySelf`: When true, mark\n
only this control. When false or not supplied,\n
* marks all direct ancestors. Default is false.\n
*\n
*\n
AbstractControl.prototype.markAsUntouched = function (opts) {\n
if (opts === void 0) { opts = {}; }\n
this.touched = false;\n
this._pendingTouched = false;\n
this._forEachChild(function (control) {\n
control.markAsUntouched({ onlySelf: true });\n
});\n
if (this._parent && !opts.onlySelf) {\n
this._parent._updateTouched(opts);\n
}\n
};\n
/**\n
* Marks the control as `dirty`. A control\n
becomes dirty when\n
* the control's value is changed through the UI; compare `markAsTouched`.\n
*\n
*\n
* @see `markAsTouched()`\n
* @see `markAsUntouched()`\n
* @see `markAsPristine()`\n
*\n
* @param\n
opts Configuration options that determine how the control propagates changes\n
* and emits events\n
after marking is applied.\n

```

```

    * `onlySelf`: When true, mark only this control. When false or not supplied,
    * marks all direct ancestors. Default is false.
    AbstractControl.prototype.markAsDirty = function (opts) {
    if (opts === void 0) { opts = {}; }
    this.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.
    *
    * @see `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.
    AbstractControl.prototype.markAsPristine = function (opts) {
    if (opts === void 0) { opts = {}; }
    this.pristine = true;
    this._pendingDirty = false;
    this._forEachChild(function (control) {
    control.markAsPristine({ onlySelf: true });
    });
    if (this._parent && !opts.onlySelf) {
    this._parent._updatePristine(opts);
    }
    };
    /**
    * Marks the control as `pending`.
    *
    * A control is pending while the control performs async validation.
    *
    * @see {@link
    AbstractControl.status}
    * @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.
    AbstractControl.prototype.markAsPending = function
    (opts) {
    if (opts === void 0) { opts = {}; }
    this.status = PENDING;
    if (opts.emitEvent !==
    false) {
    this.statusChanges.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
    * excluded from the aggregate value of any parent. Its status is
    `DISABLED`.
    *
    * If the control has children, all children are also disabled.
    *
    * @see
    {@link
    AbstractControl.status}
    * @param opts Configuration options that determine how the control
    propagates
    * changes and emits events after the control is disabled.
    * `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.
    AbstractControl.prototype.disable = function (opts) {
    if (opts === void 0) {
    opts = {}; }
    // If parent has been marked artificially dirty we don't want to re-calculate the
    //
    parent's dirtiness based on the children.
    var skipPristineCheck = this._parentMarkedDirty(opts.onlySelf);
    this.status = DISABLED;
    this.errors = null;
    this._forEachChild(function (control) { control.disable(__assign(__assign({},
    opts), { onlySelf: true })); });
    this._updateValue();
    if (opts.emitEvent !== false) {
    this.valueChanges.emit(this.value);
    this.statusChanges.emit(this.status);
    }
    this._updateAncestors(__assign(__assign({}, opts), { skipPristineCheck: skipPristineCheck }));
    this._onDisabledChange.forEach(function (changeFn) { return changeFn(true); });
    };
    /**
    *
    * Enables the control. This means the control is included in validation checks and
    * the aggregate value of its
    parent. Its status recalculates based on its value and
    * its validators.
    *
    * By default, if the
    control has children, all children are enabled.
    *
    * @see {@link AbstractControl.status}
    *
    * @param opts Configure
    options that control how the control propagates changes and
    * emits events when marked as untouched
    *
    * `onlySelf`: When true, mark only this control. When false or not supplied,
    * marks all direct ancestors.
    Default is false.
    *
    * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and
    *
    * `valueChanges`
    * observables emit events with the latest status and value when the control is enabled.

```



```

* When false, no events are emitted.\n      */\n      AbstractControl.prototype.enable = function (opts) {\n
if (opts === void 0) { opts = {}; }\n      // If parent has been marked artificially dirty we don't want to re-\n
calculate the\n      // parent's dirtiness based on the children.\n      var skipPristineCheck =\n
this._parentMarkedDirty(opts.onlySelf);\n      this.status = VALID;\n      this._forEachChild(function\n
(control) { control.enable(__assign(__assign({},\n
opts), { onlySelf: true })); });\n      this.updateValueAndValidity({ onlySelf: true, emitEvent: opts.emitEvent\n
});\n      this._updateAncestors(__assign(__assign({}, opts), { skipPristineCheck: skipPristineCheck }));\n
this._onDisabledChange.forEach(function (changeFn) { return changeFn(false); });\n      });\n
AbstractControl.prototype._updateAncestors = function (opts) {\n      if (this._parent && !opts.onlySelf) {\n
this._parent.updateValueAndValidity(opts);\n      if (!opts.skipPristineCheck) {\n
this._parent._updatePristine();\n      }\n      this._parent._updateTouched();\n      }\n      };\n
/**\n      * @param parent Sets the parent of the control\n      */\n      AbstractControl.prototype.setParent =\n
function (parent) { this._parent = parent; };\n      /**\n      * Recalculates the value and validation status of the\n
control.\n      */\n
      * By default, it also updates the value and validity of its ancestors.\n      *\n      * @param opts\n
Configuration options determine how the control propagates changes and emits events\n      * after updates and\n
validity checks are applied.\n      * * `onlySelf`: When true, only update this control. When false or not supplied,\n
      * update all direct ancestors. Default is false.\n      * * `emitEvent`: When true or not supplied (the default),\n
both the `statusChanges` and\n      * `valueChanges`\n      * observables emit events with the latest status and\n
value when the control is updated.\n      * When false, no events are emitted.\n      */\n
AbstractControl.prototype.updateValueAndValidity = function (opts) {\n      if (opts === void 0) { opts = {}; }\n
      this._setInitialStatus();\n      this._updateValue();\n      if (this.enabled) {\n
this._cancelExistingSubscription();\n      this.errors\n
= this._runValidator();\n      this.status = this._calculateStatus();\n      if (this.status === VALID ||\n
this.status === PENDING) {\n      this._runAsyncValidator(opts.emitEvent);\n      }\n      }\n
if (opts.emitEvent !== false) {\n      this.valueChanges.emit(this.value);\n
this.statusChanges.emit(this.status);\n      }\n      if (this._parent && !opts.onlySelf) {\n
this._parent.updateValueAndValidity(opts);\n      }\n      };\n      /** @internal */\n
AbstractControl.prototype._updateTreeValidity = function (opts) {\n      if (opts === void 0) { opts = {\n
emitEvent: true }; }\n      this._forEachChild(function (ctrl) { return ctrl._updateTreeValidity(opts); });\n
this.updateValueAndValidity({ onlySelf: true, emitEvent: opts.emitEvent });\n      };\n
AbstractControl.prototype._setInitialStatus = function () {\n
      this.status = this._allControlsDisabled() ? DISABLED : VALID;\n      };\n
AbstractControl.prototype._runValidator = function () {\n      return this.validator ? this.validator(this) : null;\n
};\n      AbstractControl.prototype._runAsyncValidator = function (emitEvent) {\n      var _this = this;\n
if (this.asyncValidator) {\n      this.status = PENDING;\n      var obs =\n
toObservable(this.asyncValidator(this));\n      this._asyncValidationSubscription =\n
obs.subscribe(function (errors) { return _this.setErrors(errors, { emitEvent: emitEvent }); });\n      }\n      };\n
      AbstractControl.prototype._cancelExistingSubscription = function () {\n      if\n
(this._asyncValidationSubscription) {\n      this._asyncValidationSubscription.unsubscribe();\n      }\n
};\n      /**\n      * Sets errors on a form control when running validations manually, rather than\n
automatically.\n      *\n      * Calling `setErrors` also updates the validity of the parent control.\n      *\n      *\n      * @usageNotes\n      * ### Manually set the errors for a control\n      *\n      * ```\n      * const login = new\n
FormControl('someLogin');\n      * login.setErrors({\n      *   notUnique: true\n      * });\n      * expect(login.valid).toEqual(false);\n      * expect(login.errors).toEqual({ notUnique: true });\n      * login.setValue('someOtherLogin');\n      * expect(login.valid).toEqual(true);\n      * ```\n      */\n
AbstractControl.prototype.setErrors = function (errors, opts) {\n      if (opts === void 0) { opts = {}; }\n
      this.errors = errors;\n      this._updateControlsErrors(opts.emitEvent !== false);\n      };\n      /**\n      *

```

```

Retrieves a child control given the control's name or path.\n
 * @param path A dot-delimited\n
string or array of string/number values that define the path to the\n
 * control.\n
 * @usageNotes\n
 * ### Retrieve a nested control\n
 * For example, to get a `name` control nested within a `person`\n
sub-group:\n
 * `this.form.get('person.name');`\n
 * -OR-\n
 * `this.form.get(['person', 'name']);`\n
 * AbstractControl.prototype.get = function (path) { return\n
_find(this, path, '.'); }; \n
 /**\n
 * @description\n
 * Reports error data for the control with the given\n
path.\n
 * @param errorCode The code of the error to check\n
 * @param path A list of control\n
names that designates how to move from the current control\n
 * to the control that should be queried for\n
errors.\n
 * @usageNotes\n
 * For example, for the following `FormGroup`:\n
 * form\n
 * form\n
= new FormGroup({\n
 * address: new FormGroup({ street: new FormControl() })\n
 * });\n
 * The path to the 'street' control from the root form would be 'address' -> 'street'.\n
 * It can\n
be provided to this method in one of two formats:\n
 * 1. An array of string control names, e.g.\n
`['address', 'street']`\n
 * 1. A period-delimited list of control names in one string, e.g. `address.street`\n
 * @returns error data for that particular error. If the control or error is not present,\n
 * null is returned.\n
 * AbstractControl.prototype.getError = function (errorCode, path) {\n
var control = path ?\n
this.get(path) : this;\n
return control && control.errors ? control.errors[errorCode] : null;\n
}; \n
 /**\n
 * @description\n
 * Reports whether the control with the given path has the error specified.\n
 * @param errorCode The code of the error to check\n
 * @param path A list of control names that\n
designates how to move from the current control\n
 * to the control that should be queried for errors.\n
 * @usageNotes\n
 * For example, for the following `FormGroup`:\n
 * form = new\n
FormGroup({\n
 * address: new FormGroup({ street: new FormControl() })\n
 * });\n
 * The path to the 'street' control from the root form would be 'address' -> 'street'.\n
 * It can be\n
provided to this method in one of two formats:\n
 * 1. An array of string control names, e.g. `['address',\n
'street']`\n
 * 1. A period-delimited list of control names in one string, e.g. `address.street`\n
 * If\n
no path is given, this method checks for the error on the current control.\n
 * @returns whether\n
the given error is present in the control at the given path.\n
 * If the control is not present, false is\n
returned.\n
 * AbstractControl.prototype.hasError = function (errorCode, path) {\n
return\n
!!this.getError(errorCode, path);\n
}; \n
 Object.defineProperty(FormControl.prototype, "root", {\n
/**\n
 * Retrieves the top-level ancestor of this control.\n
 * get: function () {\n
var\n
x = this;\n
while (x._parent) {\n
x = x._parent;\n
}\n
return x;\n
},\n
enumerable: true,\n
configurable: true\n
}); \n
 /** @internal */\n
AbstractControl.prototype._updateControlsErrors = function (emitEvent) {\n
this.status =\n
this._calculateStatus();\n
if (emitEvent) {\n
this.statusChanges.emit(this.status);\n
}\n
if (this._parent) {\n
this._parent._updateControlsErrors(emitEvent);\n
}\n
}; \n
 /**\n
 * @internal */\n
AbstractControl.prototype._initObservables = function () {\n
this.valueChanges = new\n
core.EventEmitter();\n
this.statusChanges = new core.EventEmitter();\n
}; \n
AbstractControl.prototype._calculateStatus = function () {\n
if (this._allControlsDisabled())\n
return\n
DISABLED;\n
if (this.errors)\n
return INVALID;\n
if\n
(this._anyControlsHaveStatus(PENDING))\n
return PENDING;\n
if\n
(this._anyControlsHaveStatus(INVALID))\n
return INVALID;\n
return VALID;\n
}; \n
 /**\n
 * @internal */\n
AbstractControl.prototype._anyControlsHaveStatus = function (status) {\n
return\n
this._anyControls(function (control) { return control.status === status; });\n
}; \n
 /** @internal\n
 */\n
 * AbstractControl.prototype._anyControlsDirty = function () {\n
return this._anyControls(function\n
(control) { return control.dirty; });\n
}; \n
 /** @internal */\n
AbstractControl.prototype._anyControlsTouched = function () {\n
return this._anyControls(function (control)\n
{ return control.touched; });\n
}; \n
 /** @internal */\n
 * AbstractControl.prototype._updatePristine =\n
function (opts) {\n
if (opts === void 0) { opts = {}; }\n
this.pristine = !this._anyControlsDirty();\n
}

```

```

    if (this._parent && !opts.onlySelf) {\n
        this._parent._updatePristine(opts);\n
    }\n
};\n
/**\n
 * @internal *\n
 * AbstractControl.prototype._updateTouched = function (opts) {\n
 *     if (opts === void 0) {\n
 *         opts = {};\n
 *     }\n
 *     this.touched = this._anyControlsTouched();\n
 *     if (this._parent && !opts.onlySelf) {\n
 *         this._parent._updateTouched(opts);\n
 *     }\n
 *     }\n
 *     }\n
 *     /** @internal *\n
 *     AbstractControl.prototype._isBoxedValue = function (formState)\n
 *     {\n
 *         return typeof formState === 'object' && formState !== null &&\n
 *         Object.keys(formState).length === 2 && 'value' in formState && 'disabled' in formState;\n
 *     }\n
 *     }\n
 *     /**\n
 *     @internal *\n
 *     AbstractControl.prototype._registerOnCollectionChange = function (fn) {\n
 *     this._onCollectionChange = fn; }\n
 *     /** @internal *\n
 *     AbstractControl.prototype._setUpdateStrategy =\n
 *     function (opts) {\n
 *         if (isOptionsObj(opts) && opts.updateOn !== null) {\n
 *             this._updateOn =\n
 *             opts.updateOn;\n
 *         }\n
 *     }\n
 *     }\n
 *     /**\n
 *     * Check to see if parent has been marked artificially dirty.\n
 *     *\n
 *     * @internal\n
 *     *\n
 *     AbstractControl.prototype._parentMarkedDirty = function (onlySelf) {\n
 *     var parentDirty = this._parent && this._parent.dirty;\n
 *     return\n
 *     !onlySelf && parentDirty && !this._parent._anyControlsDirty();\n
 *     }\n
 *     }\n
 *     return AbstractControl;\n
 *     }());\n
 *     /**\n
 *     * Tracks the value and validation status of an individual form control.\n
 *     *\n
 *     * This is one of the three\n
 *     fundamental building blocks of Angular forms, along with\n
 *     * `FormGroup` and `FormArray`. It extends the\n
 *     `AbstractControl` class that\n
 *     * implements most of the base functionality for accessing the value, validation\n
 *     status,\n
 *     * user interactions and events.\n
 *     *\n
 *     * @see `AbstractControl`\n
 *     * @see [Reactive Forms\n
 *     Guide](guide/reactive-forms)\n
 *     * @see [Usage Notes](#usage-notes)\n
 *     *\n
 *     * @usageNotes\n
 *     *\n
 *     * ###\n
 *     Initializing Form Controls\n
 *     *\n
 *     * Instantiate a `FormControl`, with an initial value.\n
 *     *\n
 *     * ```\n
 *     *\n
 *     const control = new FormControl('some value');\n
 *     console.log(control.value); // 'some value'\n
 *     *\n
 *     *\n
 *     * The following example initializes the\n
 *     control with a form state object. The `value`\n
 *     * and `disabled` keys are required in this case.\n
 *     *\n
 *     * ```\n
 *     *\n
 *     const control = new FormControl({ value: 'a', disabled: true });\n
 *     console.log(control.value); // 'a'\n
 *     *\n
 *     console.log(control.status); // 'DISABLED'\n
 *     *\n
 *     *\n
 *     * The following example initializes the control\n
 *     with a sync validator.\n
 *     *\n
 *     * ```\n
 *     *\n
 *     const control = new FormControl('', Validators.required);\n
 *     *\n
 *     console.log(control.value); // ''\n
 *     *\n
 *     console.log(control.status); // 'INVALID'\n
 *     *\n
 *     *\n
 *     * The\n
 *     following example initializes the control using an options object.\n
 *     *\n
 *     * ```\n
 *     *\n
 *     const control = new\n
 *     FormControl('', {\n
 *     *\n
 *     * validators: Validators.required,\n
 *     *\n
 *     * asyncValidators: myAsyncValidator\n
 *     *\n
 *     * });\n
 *     *\n
 *     *\n
 *     * ### Configure the control to update on a blur event\n
 *     *\n
 *     * Set the `updateOn` option to\n
 *     `blur` to update\n
 *     on the blur `event`.\n
 *     *\n
 *     * ```\n
 *     *\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\n
 *     update on a submit `event`.\n
 *     *\n
 *     * ```\n
 *     *\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\n
 *     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
 *     * ```\n
 *     *\n
 *     const control = new\n
 *     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\n
 *     disabled\n
 *     *\n
 *     *\n
 *     *\n
 *     *\n
 *     const control = new FormControl('Nancy');\n
 *     *\n
 *     console.log(control.value); // 'Nancy'\n
 *     *\n
 *     console.log(control.status); // 'VALID'\n
 *     *\n
 *     control.reset({ value: 'Drew', disabled: true });\n
 *     *\n
 *     console.log(control.value); // 'Drew'\n
 *     *\n
 *     console.log(control.status); // 'DISABLED'\n
 *     *\n
 *     *\n
 *     @publicApi\n
 *     *\n
 *     var FormControl = /** @class */ (function (_super) {\n
 *     __extends(FormControl,\n
 *     _super);\n
 *     /**\n
 *     * Creates a new `FormControl` instance.\n
 *     *\n
 *     * @param formState Initializes the\n
 *     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\n
 *     `AbstractControlOptions` object that contains validation functions\n
 *     * and a validation trigger.\n
 *     *\n
 *     *\n

```

```

@param asyncValidator A single async validator
or array of async validator functions\n
    * ^\n
    function FormControl(formState, validatorOrOpts,
asyncValidator) {\n
    if (formState === void 0) { formState = null; }\n
    var _this = _super.call(this,
coerceToValidator(validatorOrOpts), coerceToAsyncValidator(asyncValidator, validatorOrOpts)) || this;\n
/** @internal *\n
    _this._onChange = [];\n
    _this._applyFormState(formState);\n
    _this._setUpdateStrategy(validatorOrOpts);\n
    _this.updateValueAndValidity({ onlySelf: true, emitEvent:
false });\n
    _this._initObservables();\n
    return _this;\n
}\n
/**\n
    * Sets a new value for the
form control.\n
    * ^\n
    * @param value The new value for the control.\n
    * @param options
Configuration options that determine how the control propagates changes\n
    * and emits events when the value
changes.\n
    * The configuration options are
passed to the { @link AbstractControl#updateValueAndValidity\n
    * updateValueAndValidity } method.\n
*\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 value is
updated.\n
    * When false, no events are emitted.\n
    * * * `emitModelToViewChange`: When true or not
supplied (the default), each change triggers an\n
    *
`onChange` event to\n
    * update the view.\n
    * *
* * `emitViewToModelChange`: When true or not supplied (the default), each change triggers an\n
    *
`ngModelChange`\n
    * event to update the model.\n
    * ^\n
    * ^\n
    FormControl.prototype.setValue =
function (value, options) {\n
    var _this = this;\n
    if (options
=== void 0) { options = {}; }\n
    this.value = this._pendingValue = value;\n
    if (this._onChange.length
&& options.emitModelToViewChange !== false) {\n
    this._onChange.forEach(function (changeFn) {\n
return changeFn(_this.value, options.emitViewToModelChange !== false); });\n
}\n
this.updateValueAndValidity(options);\n
};\n
/**\n
    * Patches the value of a control.\n
    * ^\n
    *
This function is functionally the same as { @link FormControl#setValue setValue } at this level.\n
    * It exists for
symmetry with { @link FormGroup#patchValue patchValue } on `FormGroups` and\n
    *
`FormArrays`, where it
does behave differently.\n
    * ^\n
    * @see `setValue` for options\n
    * ^\n
    FormControl.prototype.patchValue = function (value, options) {\n
    if (options === void 0) { options = {}; }\n
    this.setValue(value, options);\n
};\n
/**\n
    * Resets
the form control, marking it `pristine` and `untouched`, and setting\n
    *
the value to null.\n
    * ^\n
    *
@param formState 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 after the value changes.\n
    * ^\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
    * ^\n
    * ^\n
    FormControl.prototype.reset = function (formState, options) {\n
    if (formState === void 0) { formState =
null; }\n
    if (options === void 0) { options = {}; }\n
    this._applyFormState(formState);\n
this.markAsPristine(options);\n
    this.markAsUntouched(options);\n
    this.setValue(this.value, options);\n
    this._pendingChange = false;\n
};\n
/**\n
    * @internal\n
    * ^\n
    FormControl.prototype._updateValue = function () {\n
};\n
/**\n
    * @internal\n
    * ^\n
    FormControl.prototype._anyControls = function (condition) { return false; }\n
/**\n
    * @internal\n
    * ^\n
    FormControl.prototype._allControlsDisabled = function () { return this.disabled; }\n
/**\n
    *
Register a listener for change events.\n
    * ^\n
    * @param fn The method that is called when the value
changes\n
    * ^\n
    FormControl.prototype.registerOnChange = function (fn) { this._onChange.push(fn); }\n
/**\n
    * @internal\n
    * ^\n
    FormControl.prototype._clearChangeFns
= function () {\n
    this._onChange = [];\n
    this._onDisabledChange = [];\n
this._onCollectionChange = function () {\n
};\n
};\n
/**\n
    * Register a listener for disabled events.\n

```

```

*\n      * @param fn The method that is called when the disabled status changes.\n      */\n
FormControl.prototype.registerOnDisabledChange = function (fn) {\n      this._onDisabledChange.push(fn);\n
};\n      /**\n      * @internal\n      */\n      FormControl.prototype._forEachChild = function (cb) { }\n
/** @internal */\n      FormControl.prototype._syncPendingControls = function () {\n      if (this.updateOn ===\n
'submit') {\n      if (this._pendingDirty)\n      this.markAsDirty();\n      if\n
(this._pendingTouched)\n      this.markAsTouched();\n      if (this._pendingChange) {\n
this.setValue(this._pendingValue,\n
  { onlySelf: true, emitModelToViewChange: false });\n      return true;\n      }\n
return false;\n      }\n      FormControl.prototype._applyFormState = function (formState) {\n      if\n
(this._isBoxedValue(formState)) {\n      this.value = this._pendingValue = formState.value;\n
formState.disabled ? this.disable({ onlySelf: true, emitEvent: false }) : \n      this.enable({ onlySelf: true,\n
emitEvent: false });\n      }\n      else {\n      this.value = this._pendingValue = formState;\n      }\n
};\n      return FormControl;\n      }(AbstractControl);\n      /**\n      * Tracks the value and validity state of a group\n
of `FormControl` instances.\n      *\n      * A `FormGroup` aggregates the values of each child `FormControl` into one\n
object,\n      * with each control name as the key. It calculates its status by reducing the status values\n      * of its\n
children.\n
For example, if one of the controls in a group is invalid, the entire\n      * group becomes invalid.\n      *\n      * `FormGroup` is one of the three fundamental building blocks used to define forms in Angular,\n      * along with\n
`FormControl` and `FormArray`.\n      *\n      * When instantiating a `FormGroup`, pass in a collection of child\n
controls as the first\n      * argument. The key for each child registers the name for the control.\n      *\n      * @usageNotes\n      * ### Create a form group with 2 controls\n      * ```\n      * const form = new\n
FormGroup({\n      *   first: new FormControl('Nancy', Validators.minLength(2)),\n      *   last: new\n
FormControl('Drew'),\n      * });\n      * console.log(form.value); // {first: 'Nancy', last: 'Drew'}\n      * console.log(form.status); // 'VALID'\n      * ```\n      * ### Create a form group with a group-level validator\n
*\n      * You include group-level validators as the second arg, or group-level async\n
*\n      * validators as the third arg. These come in handy when you want to perform validation\n      * that considers the\n
value of more than one child control.\n      *\n      * ```\n      * const form = new FormGroup({\n      *   password: new\n
FormControl("", Validators.minLength(2)),\n      *   passwordConfirm: new FormControl("",\n
Validators.minLength(2)),\n      * }, passwordMatchValidator);\n      *\n      * function\n
passwordMatchValidator(g: FormGroup) {\n      *   return g.get('password').value ===\n
g.get('passwordConfirm').value\n      *     ? null : {'mismatch': true};\n      * }\n      * ```\n      *\n      * Like\n
`FormControl` instances, you choose to pass in\n      * validators and async validators as part of an options object.\n
*\n      * ```\n      * const form = new FormGroup({\n      *   password: new FormControl(")\n      *   passwordConfirm:\n
new FormControl(")\n      * }, { validators: passwordMatchValidator, asyncValidators: otherValidator });\n      * ```\n
*\n      * ### Set the updateOn property for all controls in a form group\n      *\n      * The options object is used to set a\n
default value for each child\n      * control's `updateOn` property. If you set `updateOn` to `blur` at the\n      * group\n
level, all child controls default to `blur`, unless the child\n      * has explicitly specified a different `updateOn` value.\n
*\n      * ```ts\n      * const c = new FormGroup({\n      *   one: new FormControl(),\n      * }, { updateOn: 'blur' });\n
*\n      * ```\n      *\n      * @publicApi\n      */\n      var FormGroup = /** @class */ (function (_super) {\n
__extends(FormGroup, _super);\n      /**\n      * Creates a new `FormGroup` instance.\n      *\n      * @param\n
controls A collection of child controls. The key for each child is the name\n      * under which it is registered.\n
*\n      * @param validatorOrOpts A synchronous validator function, or an array of\n      * such functions, or an\n
`AbstractControlOptions` object that\n
contains validation functions\n      * and a validation trigger.\n      *\n      * @param asyncValidator A single\n
async validator or array of async validator functions\n      */\n      function FormGroup(controls,\n
validatorOrOpts, asyncValidator) {\n      var _this = _super.call(this, coerceToValidator(validatorOrOpts),\n
coerceToAsyncValidator(asyncValidator, validatorOrOpts)) || this;\n      _this.controls = controls;\n

```

```

_this._initObservables();\n      _this._setUpdateStrategy(validatorOrOpts);\n      _this._setUpControls();\n      _this.updateValueAndValidity({ onlySelf: true, emitEvent: false });\n      return _this;\n    }\n  /**\n   * Registers a control with the group's list of controls.\n   * This method does not update the value or\n   * validity of the control.\n   * Use { @link FormGroup#addControl addControl } instead.\n   * @param\n   * name The control name to\n   * register in the collection\n   * @param control Provides the control for the given name\n   */\n  FormGroup.prototype.registerControl = function (name, control) {\n    if (this.controls[name])\n      return this.controls[name];\n    this.controls[name] = control;\n    control.setParent(this);\n    control._registerOnCollectionChange(this._onCollectionChange);\n    return control;\n  };
  /**\n   * Add a control to this group.\n   * This method also updates the value and validity of the control.\n   * @param name The control name to add to the collection\n   * @param control Provides the control\n   * for the given name\n   */\n  FormGroup.prototype.addControl = function (name, control) {\n    this.registerControl(name, control);\n    this.updateValueAndValidity();\n    this._onCollectionChange();\n  };
  /**\n   * Remove a control from this group.\n   * @param name The control name to remove from the\n   * collection\n   */\n  FormGroup.prototype.removeControl = function (name) {\n    if\n      (this.controls[name])\n        this.controls[name]._registerOnCollectionChange(function () { });\n    delete\n      (this.controls[name]);\n    this.updateValueAndValidity();\n    this._onCollectionChange();\n  };
  /**\n   * Replace an existing control.\n   * @param name The control name to replace in the\n   * collection\n   * @param control Provides the control for the given name\n   */\n  FormGroup.prototype.setControl = function (name, control) {\n    if (this.controls[name])\n      this.controls[name]._registerOnCollectionChange(function () { });\n    delete (this.controls[name]);\n    if\n      (control)\n        this.registerControl(name, control);\n    this.updateValueAndValidity();\n    this._onCollectionChange();\n  };
  /**\n   * Check whether\n   * there is an enabled control with the given name in the group.\n   * Reports false for disabled controls. If\n   * you'd like to check for existence in the group\n   * only, use { @link AbstractControl#get get } instead.\n   * @param controlName The control name to check for existence in the collection\n   * @returns\n   * false for disabled controls, true otherwise.\n   */\n  FormGroup.prototype.contains = function (controlName)\n  {\n    return this.controls.hasOwnProperty(controlName) && this.controls[controlName].enabled;\n  };
  /**\n   * Sets the value of the `FormGroup`. It accepts an object that matches\n   * the structure of the group,\n   * with control names as keys.\n   * @usageNotes\n   * ### Set the complete value for the form\n   * group\n   *\n   * ```\n   * const form = new FormGroup({\n   *   first: new FormControl(),\n   *   last: new\n   *   FormControl()\n   * });\n   * console.log(form.value); // {first: null, last: null}\n   * form.setValue({first: 'Nancy', last: 'Drew'});\n   * console.log(form.value); // {first: 'Nancy', last: 'Drew'}\n   * ```\n   * @throws When strict checks fail, such as setting the value of a control\n   * that doesn't\n   * exist or if you exclude a value of a control that does exist.\n   * @param value The new value for the\n   * control that matches the structure of the group.\n   * @param options Configuration options that determine how\n   * the control propagates changes\n   * and emits events after the value changes.\n   * The configuration options\n   * are passed to the { @link AbstractControl#updateValueAndValidity\n   * updateValueAndValidity } method.\n   */\n  /**\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 value is updated.\n   * When false,\n   * no events are emitted.\n   */\n  FormGroup.prototype.setValue = function (value, options) {\n    var\n      _this = this;\n    if (options === void 0) { options = {}; }\n    this._checkAllValuesPresent(value);\n    Object.keys(value).forEach(function (name) {\n      _this._throwIfControlMissing(name);\n      _this.controls[name].setValue(value[name], { onlySelf: true, emitEvent: options.emitEvent });\n    });\n  };

```

```

this.updateValueAndValidity(options);
};

/**
 * Patches the value of the `FormGroup`. It accepts
an object with control
    * names as keys, and does its best to match the values to the correct controls
    * in the group.
    * It accepts both super-sets and sub-sets of the group without throwing an error.
    * @usageNotes
    * ### Patch the value for a form group
    * ```
    * const form = new FormGroup({
    * first: new FormControl(),
    * last: new FormControl()
    * });
    * console.log(form.value); //
    {first: null, last: null}
    * form.patchValue({first: 'Nancy'});
    * console.log(form.value); //
    {first: 'Nancy', last: null}
    * ```
    * @param value The object that matches the structure of the
group.
    * @param options Configuration options that determine how the control propagates changes and
    * emits events after the value is patched.
    * * `onlySelf`: When true, each change only affects this
control and not its parent. Default is
    * 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 value is updated.
    * When false, no events are emitted.
    * The configuration
options are passed to the {@link AbstractControl#updateValueAndValidity}
    * updateValueAndValidity}
method.
    * ^
    * FormGroup.prototype.patchValue = function (value, options) {
    * var _this = this;
    * if (options === void 0) { options = {}; }
    * Object.keys(value).forEach(function (name) {
    * if
    * (_this.controls[name]) {
    * _this.controls[name].patchValue(value[name], { onlySelf: true, emitEvent:
options.emitEvent });
    * }
    * });
    * this.updateValueAndValidity(options);
    * };
    * /**
    * Resets the
    * `FormGroup`, marks all descendants are marked `pristine` and `untouched`, and
    * the value of all
    * descendants to null.
    * You reset to a specific form state by passing in a map of states
    * that
    * matches the structure of your form, with control names as keys. The state
    * is a standalone value or a form
    * state object with both a value and a disabled
    * status.
    * @param value Resets the control with
an initial value,
    * or an object that defines the initial value and disabled state.
    * @param
options Configuration options that determine how the control propagates changes
    * and emits events when
the group is reset.
    * * `onlySelf`: When true, each change only affects this control, and not its parent. Default
is
    * false.
    * * `emitEvent`: When true or not supplied (the default), both the `statusChanges` and
    * `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.
    * @usageNotes
    * ### Reset the form group values
    * ```ts
    * const form = new
FormGroup({
    * first: new FormControl('first name'),
    * last: new FormControl('last name')
    * });
    * console.log(form.value); // {first: 'first name', last: 'last name'}
    * form.reset({
    * first: 'name', last: 'last name' });
    * console.log(form.value); // {first: 'name', last: 'last name'}
    * ```
    * ### Reset the form group values and disabled status
    * ```
    * const form
= new FormGroup({
    * first: new
FormControl('first name'),
    * last: new FormControl('last name')
    * });
    * form.reset({
    * first: { value: 'name', disabled: true },
    * last: 'last'
    * });
    * console.log(this.form.value); // {first: 'name', last: 'last name'}
    * console.log(this.form.get('first').status); //
'DISABLED'
    * ```
    * ^
    * FormGroup.prototype.reset = function (value, options) {
    * if (value
=== void 0) { value = {}; }
    * if (options === void 0) { options = {}; }
    * this._forEachChild(function
(control, name) {
    * control.reset(value[name], { onlySelf: true, emitEvent: options.emitEvent });
    * });
    * this._updatePristine(options);
    * this._updateTouched(options);
    * this.updateValueAndValidity(options);
    * };
    * /**
    * The aggregate value of the `FormGroup`,
including any disabled
controls.
    * Retrieves all values regardless of disabled status.
    * The `value` property is the
best way to get the value of the group, because
    * it excludes disabled controls in the `FormGroup`.

```

```

*/\n   FormGroup.prototype.getRawValue = function () {\n       return this._reduceChildren({}, function (acc,
control, name) {\n           acc[name] = control instanceof FormControl ? control.value : control.getRawValue();\n           return acc;\n       });\n   });\n   /** @internal */\n   FormGroup.prototype._syncPendingControls
= function () {\n       var subtreeUpdated = this._reduceChildren(false, function (updated, child) {\n
return child._syncPendingControls() ? true : updated;\n       });\n       if (subtreeUpdated)\nthis.updateValueAndValidity({ onlySelf: true });\n       return subtreeUpdated;\n   });\n   /** @internal */\n   FormGroup.prototype._throwIfControlMissing
= function (name) {\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
Error("\n       Cannot find form control with name: " + name + ".");\n       }\n       });\n   /** @internal */\n   FormGroup.prototype._forEachChild = function (cb) {\n       var _this = this;\n
Object.keys(this.controls).forEach(function (k) { return cb(_this.controls[k], k); });\n       });\n   /** @internal
*/\n   FormGroup.prototype._setUpControls = function () {\n       var _this = this;\n
this._forEachChild(function (control) {\n           control.setParent(_this);\n
control._registerOnCollectionChange(_this._onCollectionChange);\n
       });\n       });\n   /** @internal */\n   FormGroup.prototype._updateValue = function () { this.value =
this._reduceValue(); }; \n   /** @internal */\n   FormGroup.prototype._anyControls = function (condition) {\n
       var _this = this;\n       var res = false;\n       this._forEachChild(function (control, name) {\n           res
= res || (_this.contains(name) && condition(control));\n       });\n       return res;\n       });\n   /** @internal
*/\n   FormGroup.prototype._reduceValue = function () {\n       var _this = this;\n       return
this._reduceChildren({}, function (acc, control, name) {\n           if (control.enabled || !_this.disabled) {\n
acc[name] = control.value;\n           }\n           return acc;\n       });\n       });\n   /** @internal */\n   FormGroup.prototype._reduceChildren = function (initValue, fn) {\n
       var res = initValue;\n       this._forEachChild(function (control, name) { res = fn(res, control, name); });\n
return res;\n       });\n   /** @internal */\n   FormGroup.prototype._allControlsDisabled = function () {\n
var e_1, _a;\n       try {\n           for (var _b = __values(Object.keys(this.controls)), _c = _b.next(); !_c.done; _c
= _b.next()) {\n               var controlName = _c.value;\n               if (this.controls[controlName].enabled) {\n
return false;\n               }\n           }\n       }\n       catch (e_1_1) { e_1 = { error: e_1_1 }; }\n
       finally {\n           try {\n               if (_c && !_c.done && (_a = _b.return)) _a.call(_b);\n           }\n
       }\n       finally { if (e_1) throw e_1.error; }\n       }\n       return Object.keys(this.controls).length > 0 ||
this.disabled;\n       });\n   /** @internal */\n   FormGroup.prototype._checkAllValuesPresent
= function (value) {\n       this._forEachChild(function (control, name) {\n           if (value[name] ===
undefined) {\n               throw new Error("\n       Must supply a value for form control with name: " + name + ".");\n
           }\n       });\n       });\n       return FormGroup;\n   })(AbstractControl);\n   /**\n   * Tracks the value
and validity state of an array of `FormControl`,\n   * `FormGroup` or `FormArray` instances.\n   * A
`FormArray` aggregates the values of each child `FormControl` into an array.\n   * It calculates its status by
reducing the status values of its children. For example, if one of\n   * the controls in a `FormArray` is invalid, the
entire array becomes invalid.\n   * `FormArray` is one of the three fundamental building blocks used to
define forms in Angular,\n   * along with `FormControl` and `FormGroup`.\n   * @usageNotes\n   *
### Create
an array of form controls\n   *
```
const arr = new FormArray([\n   *   new FormControl('Nancy',
Validators.minLength(2)),\n   *   new FormControl('Drew'),\n   *   ]);\n   *   console.log(arr.value); //
['Nancy', 'Drew']\n   *   console.log(arr.status); // 'VALID'\n   *
```
### Create a form array with array-
level validators\n   *
You include array-level validators and async validators. These come in handy\n   *
when you want to perform validation that considers the value of more than one child\n   * control.\n   *
The
two types of validators are passed in separately as the second and third arg\n   * respectively, or together as part of
an options object.\n   *
```
const arr = new FormArray([\n   *   new FormControl('Nancy'),\n   *

```



```

new FormControl('Drew')\n    * ], { validators: myValidator, asyncValidators: myAsyncValidator});\n    * ```\n
*\n    * ### Set the updateOn property\n
for all controls in a form array\n    *\n    * The options object is used to set a default value for each child\n    *\n    * control's `updateOn` property. If you set `updateOn` to `blur` at the\n    *\n    * array level, all child controls default to\n    *\n    * `blur`, unless the child\n    *\n    * has explicitly specified a different `updateOn` value.\n    *\n    * ```\n    * const arr =\n    * new FormArray([\n    *   new FormControl()\n    * ], {updateOn: 'blur'});\n    * ```\n    * \n    * ### Adding or\n    * removing controls from a form array\n    *\n    * To change the controls in the array, use the `push`, `insert`,\n    *\n    * `removeAt` or `clear` methods\n    *\n    * in `FormArray` itself. These methods ensure the controls are properly tracked\n    *\n    * in the\n    *\n    * form's hierarchy. Do not modify the array of `AbstractControl`s used to instantiate\n    *\n    * the\n    *\n    * `FormArray` directly, as that result in strange and unexpected behavior such\n    *\n    * as broken change detection.\n    *\n    * \n    * @publicApi\n    * \n    * var FormArray\n    * = /** @class */ (function (_super) {\n    *   __extends(FormArray, _super);\n    *   /**\n    *    * Creates a new\n    *    *\n    *    * `FormArray` instance.\n    *    *\n    *    * @param controls An array of child controls. Each child control is given an\n    *    *\n    *    * index\n    *    *\n    *    * where it is registered.\n    *    *\n    *    * @param validatorOrOpts A synchronous validator function, or\n    *    *\n    *    * an array of\n    *    *\n    *    * such functions, or an `AbstractControlOptions` object that contains validation functions\n    *    *\n    *    * and a validation trigger.\n    *    *\n    *    * @param asyncValidator A single async validator or array of async\n    *    *\n    *    * validator functions\n    *    *\n    *    * \n    *    * function FormArray(controls, validatorOrOpts, asyncValidator) {\n    *    *   var _this = _super.call(this, coerceToValidator(validatorOrOpts), coerceToAsyncValidator(asyncValidator,\n    *    *   validatorOrOpts)) || this;\n    *    *   _this.controls = controls;\n    *    *   _this._initObservables();\n    *    *   _this._setUpUpdateStrategy(validatorOrOpts);\n    *    *   _this._setUpControls();\n    *    *   _this.updateValueAndValidity({ onlySelf: true, emitEvent: false });\n    *    *   return _this;\n    *    * } \n    *   /**\n    *    * Get the `AbstractControl` at the given `index` in the array.\n    *    *\n    *    * \n    *    * @param index Index in the array to retrieve the control\n    *    *\n    *    * \n    *    * FormArray.prototype.at = function (index) {\n    *    *   return this.controls[index];\n    *    * }; \n    *   /**\n    *    * Insert a new `AbstractControl` at the end of the array.\n    *    *\n    *    * \n    *    * @param control Form control to be inserted\n    *    *\n    *    * \n    *    * FormArray.prototype.push = function (control) {\n    *    *   this.controls.push(control);\n    *    *   this._registerControl(control);\n    *    *   this.updateValueAndValidity();\n    *    *   this._onCollectionChange();\n    *    * }; \n    *   /**\n    *    * Insert a new `AbstractControl` at the given `index` in\n    *    *\n    *    * the array.\n    *    *\n    *    * \n    *    * @param index Index in the array to insert the control\n    *    *\n    *    * \n    *    * @param control Form control to be inserted\n    *    *\n    *    * \n    *    * FormArray.prototype.insert = function (index, control)\n    *    * {\n    *    *   this.controls.splice(index, 0, control);\n    *    *   this._registerControl(control);\n    *    *   this.updateValueAndValidity();\n    *    * }; \n    *   /**\n    *    * Remove the control at the given `index` in the array.\n    *    *\n    *    * \n    *    * @param index Index in the array to remove the control\n    *    *\n    *    * \n    *    * FormArray.prototype.removeAt\n    *    * = function (index) {\n    *    *   if (this.controls[index])\n    *    *   this.controls[index]._registerOnCollectionChange(function () { });\n    *    *   this.controls.splice(index, 1);\n    *    *   this.updateValueAndValidity();\n    *    * }; \n    *   /**\n    *    * Replace an existing control.\n    *    *\n    *    * \n    *    * @param\n    *    *\n    *    * index Index in the array to replace the control\n    *    *\n    *    * \n    *    * @param control The `AbstractControl` control to replace the\n    *    *\n    *    * existing control\n    *    *\n    *    * \n    *    * FormArray.prototype.setControl\n    *    * = function (index, control) {\n    *    *   if (this.controls[index])\n    *    *   this.controls[index]._registerOnCollectionChange(function () { });\n    *    *   this.controls.splice(index, 1);\n    *    *   if\n    *    * (control) {\n    *    *   this.controls.splice(index, 0, control);\n    *    *   this._registerControl(control);\n    *    *   }\n    *    *   this.updateValueAndValidity();\n    *    *   this._onCollectionChange();\n    *    * }; \n    *   Object.defineProperty(FormArray.prototype, 'length', {\n    *    *     /**\n    *    *    * Length of the control array.\n    *    *\n    *    * \n    *    * get: function () { return this.controls.length; },\n    *    *     enumerable: true,\n    *    *     configurable: true\n    *    *   }); \n    *   /**\n    *    * Sets the value of the `FormArray`. It accepts an array that matches\n    *    *\n    *    * the structure of\n    *    *\n    *    * the control.\n    *    *\n    *    * \n    *    * This method performs strict checks, and throws an error if you try\n    *    *\n    *    * to set the\n    *    *\n    *    * value of a control\n    *    *\n    *    * that doesn't exist or if you exclude the\n    *    *\n    *    * value of a control.\n    *    *\n    *    * \n    *    * @usageNotes\n    *    * \n    *    * ### Set\n    *    *\n    *    * the values for the controls in the form array\n    *    *\n    *    * \n    *    * ```\n    *    * const arr = new FormArray([\n    *

```

```

new FormControl(),\n      * new FormControl()\n      * ]);\n      * console.log(arr.value); // [null, null]\n\n*\n      * arr.setValue(['Nancy', 'Drew']);\n      * console.log(arr.value); // ['Nancy', 'Drew']\n      * ``\n\n*\n      * @param value Array of values for the controls\n      * @param options Configure options that\n      determine how the control propagates changes and\n      * emits events after the value changes\n      *\n      * *\n      `onlySelf`: When true, each change only affects this control, and not its parent. Default\n      * is false.\n      * *\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\n      AbstractControl#updateValueAndValidity\n      * updateValueAndValidity} method.\n      *^\n\nFormArray.prototype.setValue = function (value, options) {\n      var _this = this;\n      if (options === void\n      0) { options = {}; }\n      this._checkAllValuesPresent(value);\n      value.forEach(function (newValue,\n      index) {\n      _this._throwIfControlMissing(index);\n      _this.at(index).setValue(newValue, {\n      onlySelf: true, emitEvent: options.emitEvent\n      });\n      this.updateValueAndValidity(options);\n      });\n      /**\n      * Patches the value of the `FormArray`. It accepts an array that matches the\n      * structure of\n      the control, and does its best to match the values to the correct\n      *\n      * controls in the group.\n      *\n      * It accepts both super-sets and sub-sets of the array without throwing an\n      error.\n      *\n      * @usageNotes\n      * ### Patch the values for controls in a form array\n      *\n      *``\n      * const arr = new FormArray([\n      * new FormControl(),\n      * new FormControl()\n      * ]);\n      * console.log(arr.value); // [null, null]\n      *\n      * arr.patchValue(['Nancy']);\n      *\n      console.log(arr.value); // ['Nancy', null]\n      *``\n      *\n      * @param value Array of latest values for the\n      controls\n      * @param options Configure options that determine how the control propagates changes and\n      * emits events after the value changes\n      *\n      * * `onlySelf`: When true, each change only affects this\n      control, and not its parent. Default\n      * is false.\n      * * `emitEvent`: When true or not supplied (the default),\n      both the `statusChanges`\n      and\n      * `valueChanges`\n      * observables emit events with the latest status and value when the control\n      value is updated.\n      * When false, no events are emitted.\n      * The configuration options are passed to the\n      {@link AbstractControl#updateValueAndValidity\n      * updateValueAndValidity} method.\n      *^\n\nFormArray.prototype.patchValue = function (value, options) {\n      var _this = this;\n      if (options ===\n      void 0) { options = {}; }\n      value.forEach(function (newValue, index) {\n      if (_this.at(index)) {\n      _this.at(index).patchValue(newValue, { onlySelf: true, emitEvent: options.emitEvent\n      });\n      }\n      });\n      this.updateValueAndValidity(options);\n      });\n      /**\n      * Resets the `FormArray` and all\n      descendants are marked `pristine` and `untouched`, and the\n      * value of all descendants to null or null maps.\n      *\n      *\n      * You reset to a specific form state by passing in an array of states\n      * that matches the structure of the\n      control. The state is a standalone value\n      * or a form state object with both a value and a disabled status.\n      *\n      * @usageNotes\n      * ### Reset the values in a form array\n      *\n      *``ts\n      * const arr =\n      new FormArray([\n      * new FormControl(),\n      * new FormControl()\n      * ]);\n      *\n      arr.reset(['name', 'last name']);\n      *\n      * console.log(this.arr.value); // ['name', 'last name']\n      *``\n      *\n      * ### Reset the values in a form array and the disabled status for the first control\n      *\n      *``\n      * this.arr.reset([\n      * {value: 'name', disabled: true},\n      * 'last\n      * ]);\n      *\n      *\n      console.log(this.arr.value); // ['name', 'last name']\n      * console.log(this.arr.get(0).status); //\n      'DISABLED'\n      *``\n      *\n      * @param value Array of values for the controls\n      * @param options\n      Configure options that determine how the control propagates changes and\n      * emits events after the value\n      changes\n      *\n      * * `onlySelf`: When true, each change only affects this control, and not its parent.\n      Default\n      * is false.\n      * * `emitEvent`: When true or not supplied (the default), both the `statusChanges`\n      and\n      * `valueChanges`\n      * observables emit events with the latest status and value when the control is\n      reset.\n      * When false, no events are emitted.\n      * The configuration options are passed to the {@link\n      AbstractControl#updateValueAndValidity\n      * updateValueAndValidity} method.\n      *^\n

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FormArray.prototype.reset = function (value, options) {\n      if (value === void 0) { value = []; }\n      if\n      (options === void 0) { options = {}; }\n      this._forEachChild(function\n      (control, index) {\n          control.reset(value[index], { onlySelf: true, emitEvent: options.emitEvent });\n      });\n      this._updatePristine(options);\n      this._updateTouched(options);\n      this.updateValueAndValidity(options);\n      };\n      /**\n      * The aggregate value of the array, including any\n      disabled controls.\n      *\n      * Reports all values regardless of disabled status.\n      *\n      * For enabled controls\n      only, the `value` property is the best way to get the value of the array.\n      */\nFormArray.prototype.getRawValue = function () {\n      return this.controls.map(function (control) {\n      return control instanceof FormControl ? control.value : control.getRawValue();\n      });\n      };\n      /**\n      * Remove all controls in the `FormArray`.\n      *\n      * @usageNotes\n      * ### Remove all elements from a\n      FormArray\n      *\n      * ```ts\n      * const arr = new FormArray([\n      *   new FormControl(),\n      *   new FormControl()\n      * ]);\n      * console.log(arr.length); // 2\n      * arr.clear();\n      * console.log(arr.length); // 0\n      * ```\n      *\n      * It's a simpler and more efficient alternative to removing all elements one by one:\n      *\n      * ```ts\n      * const arr = new FormArray([\n      *   new FormControl(),\n      *   new FormControl()\n      * ]);\n      * while (arr.length) {\n      *   arr.removeAt(0);\n      * }\n      * ```\n      */\nFormArray.prototype.clear = function () {\n      if (this.controls.length < 1)\n          return;\n      this._forEachChild(function (control) { return control._registerOnCollectionChange(function () { }); });\n      this.controls.splice(0);\n      this.updateValueAndValidity();\n      };\n      /**\n      @internal\n      FormArray.prototype._syncPendingControls = function () {\n          var subtreeUpdated =\n      this.controls.reduce(function (updated, child) {\n          return child._syncPendingControls() ? true : updated;\n      }, false);\n          if (subtreeUpdated)\n              this.updateValueAndValidity({ onlySelf: true });\n      return subtreeUpdated;\n      };\n      /** @internal\n      FormArray.prototype._throwIfControlMissing =\n      function (index) {\n          if (!this.controls.length) {\n              throw new Error(`\n      There are no form\n      controls registered with this array yet. If you're using ngModel,\n      you may want to check next tick (e.g. use\n      setTimeout).\n      `);\n          }\n          if (!this.at(index)) {\n              throw new Error(`Cannot find form\n      control at index ` + index);\n          }\n      };\n      /** @internal\n      FormArray.prototype._forEachChild =\n      function (cb)\n      {\n          this.controls.forEach(function (control, index) { cb(control, index); });\n      };\n      /** @internal\n      FormArray.prototype._updateValue = function () {\n          var _this = this;\n          this.value =\n      this.controls.filter(function (control) { return control.enabled || !_this.disabled; })\n      .map(function\n      (control) { return control.value; });\n      };\n      /** @internal\n      FormArray.prototype._anyControls =\n      function (condition) {\n          return this.controls.some(function (control) { return control.enabled &&\n      condition(control); });\n      };\n      /** @internal\n      FormArray.prototype._setUpControls = function () {\n          var _this = this;\n          this._forEachChild(function (control) { return _this._registerControl(control); });\n      };\n      /** @internal\n      FormArray.prototype._checkAllValuesPresent = function (value) {\n      this._forEachChild(function\n      (control, i) {\n          if (value[i] === undefined) {\n              throw new Error(`Must supply a value for form\n      control at index: ` + i + `.`);\n          }\n      });\n      };\n      /** @internal\n      FormArray.prototype._allControlsDisabled = function () {\n          var e_2, _a;\n          try {\n              for (var _b\n      = __values(this.controls), _c = _b.next(); !_c.done; _c = _b.next()) {\n                  var control = _c.value;\n                  if (control.enabled)\n                      return false;\n              }\n          } catch (e_2_1) { e_2 = { error:\n      e_2_1 }; }\n          finally {\n              try {\n                  if (_c && !_c.done && (_a = _b.return)) _a.call(_b);\n              }\n              finally { if (e_2) throw e_2.error; }\n          }\n          return this.controls.length > 0 ||\n      this.disabled;\n      };\n      FormArray.prototype._registerControl\n      = function (control) {\n          control.setParent(this);\n          control._registerOnCollectionChange(this._onCollectionChange);\n      };\n      return FormArray;\n      }(AbstractControl);\n      /**\n      * @license\n      * Copyright Google Inc. All Rights Reserved.\n      *\n      * Use

```



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@description\n      * Returns a map of the controls in this group.\n      *^n      get: function () { return
this.form.controls; },\n      enumerable: true,\n      configurable: true\n    });\n    /**\n      * @description\n      * Method that sets up the control directive in this group, re-calculates its value\n      and validity, and adds the instance to the internal list of directives.\n      *^n      * @param dir The `NgModel`
directive instance.\n      *^n      NgForm.prototype.addControl = function (dir) {\n      var _this = this;\n      resolvedPromise.then(function () {\n      var container = _this._findContainer(dir.path);\n      dir.control
=\n      container.registerControl(dir.name, dir.control);\n      setUpControl(dir.control, dir);\n      dir.control.updateValueAndValidity({ emitEvent: false });\n      _this._directives.push(dir);\n      });\n    });\n    /**\n      * @description\n      * Retrieves the `FormControl` instance from the provided `NgModel`
directive.\n      *^n      * @param dir The `NgModel` directive instance.\n      *^n
NgForm.prototype.getControl = function (dir) { return this.form.get(dir.path); }; \n    /**\n      *
@description\n      * Removes the `NgModel` instance from the internal list of directives\n      *^n      *
@param dir The `NgModel` directive instance.\n      *^n      NgForm.prototype.removeControl = function (dir)
{\n      var _this = this;\n      resolvedPromise.then(function () {\n      var container =
_this._findContainer(dir.path);\n      if (container) {\n      container.removeControl(dir.name);\n      }\n      removeDir(_this._directives, dir);\n      });\n    });\n    /**\n      * @description\n      *
Adds a new `NgModelGroup` directive instance to the form.\n      *^n      * @param dir The `NgModelGroup`
directive instance.\n      *^n      NgForm.prototype.addFormGroup = function (dir) {\n      var _this = this;\n      resolvedPromise.then(function
()\n      {\n      var container = _this._findContainer(dir.path);\n      var group = new FormGroup({});\n      setUpFormContainer(group, dir);\n      container.registerControl(dir.name, group);\n      group.updateValueAndValidity({ emitEvent: false });\n      });\n    });\n    /**\n      * @description\n      *
Removes the `NgModelGroup` directive instance from the form.\n      *^n      * @param dir The
`NgModelGroup` directive instance.\n      *^n      NgForm.prototype.removeFormGroup = function (dir) {\n      var _this = this;\n      resolvedPromise.then(function () {\n      var container =
_this._findContainer(dir.path);\n      if (container) {\n      container.removeControl(dir.name);\n      }\n      });\n    });\n    /**\n      * @description\n      * Retrieves the `FormGroup` for a provided
`NgModelGroup` directive instance\n      *^n      * @param dir The `NgModelGroup` directive instance.\n      *^n
NgForm.prototype.getFormGroup = function (dir) { return this.form.get(dir.path); }; \n    /**\n      * Sets the new
value for the provided `NgControl` directive.\n      *^n      * @param dir The `NgControl` directive instance.\n      *
@param value The new value for the directive's control.\n      *^n      NgForm.prototype.updateModel =
function (dir, value) {\n      var _this = this;\n      resolvedPromise.then(function () {\n      var ctrl =
_this.form.get(dir.path);\n      ctrl.setValue(value);\n      });\n    });\n    /**\n      * @description\n      * Sets the value for this `FormGroup`.\n      *^n      * @param value The new value\n      *^n
NgForm.prototype.setValue = function (value) { this.control.setValue(value); }; \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 $event The `submit` event object\n      *^n      NgForm.prototype.onSubmit
= function ($event) {\n      this.submitted = true;\n      syncPendingControls(this.form, this._directives);\n      this.ngSubmit.emit($event);\n      return false;\n      });\n    /**\n      * @description\n      * Method
called when the `reset` event is triggered on the form.\n      *^n      NgForm.prototype.onReset = function () {\n      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
NgForm.prototype.resetForm = function (value) {\n      if (value === void 0) { value = undefined; }\n      this.form.reset(value);\n      this.submitted
= false;\n      });\n      NgForm.prototype._setUpdateStrategy = function () {\n      if (this.options &&
this.options.updateOn != null) {\n      this.form._updateOn = this.options.updateOn;\n      }\n    });\n

```

```

/** @internal */\n    NgForm.prototype._findContainer = function (path) {\n        path.pop();\n        return\n        path.length ? this.form.get(path) : this.form;\n    }; \n    __decorate([\n        core.Input('ngFormOptions'),\n        __metadata({"design:type": Object})\n    ], NgForm.prototype, 'options', void 0);\n    NgForm =\n    __decorate([\n        core.Directive({\n            selector: 'form:not([ngNoForm]):not([formGroup]),ng-\n            form,[ngForm]'\n        },\n        providers: [formDirectiveProvider],\n        host: { '(submit)': 'onSubmit($event)',\n            '(reset)': 'onReset()' },\n        outputs: ['ngSubmit'],\n        exportAs: 'ngForm'\n    }]),\n    __param(0,\n    core.Optional()), __param(0, core.Self()), __param(0, core.Inject(NG_VALIDATORS)),\n    __param(1,\n    core.Optional()), __param(1, core.Self()), __param(1, core.Inject(NG_ASYNC_VALIDATORS)),\n    __metadata({"design:paramtypes": [Array, Array])\n    ], NgForm);\n    return NgForm;\n})(ControlContainer);\n\n/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n * Use\n * of this source code is governed by an MIT-style license that can be\n * found in the LICENSE file at\n * https://angular.io/license\n */\n\n/**\n * @description\n * A base class for code shared between the\n * `NgModelGroup` and `FormGroupName` directives.\n */\n * @publicApi\n */\n var\n    AbstractFormGroupDirective = /** @class */ (function (_super) {\n        __extends(AbstractFormGroupDirective,\n        _super);\n        function AbstractFormGroupDirective() {\n            return _super !== null && _super.apply(this,\n            arguments) || this;\n        }\n        /**\n         * @description\n         * An internal callback method triggered on the instance after the inputs\n         * are set.\n         * Registers the group with its parent group.\n         */\n        AbstractFormGroupDirective.prototype.ngOnInit = function () {\n            this._checkParentType();\n            this.formDirective.addFormGroup(this);\n        }; \n        /**\n         * @description\n         * An internal callback\n         * method triggered before the instance is destroyed.\n         * Removes the group from its parent group.\n         */\n        AbstractFormGroupDirective.prototype.ngOnDestroy = function () {\n            if (this.formDirective) {\n                this.formDirective.removeFormGroup(this);\n            }\n        }; \n        Object.defineProperty(AbstractFormGroupDirective.prototype, "control", {\n            /**\n             * @description\n             * The `FormGroup` bound to this directive.\n             */\n            get: function () { return\n            this.formDirective.getFormGroup(this); },\n            enumerable: true,\n            configurable: true\n        });\n        Object.defineProperty(AbstractFormGroupDirective.prototype, "path", {\n            /**\n             * @description\n             * The path to this group from the top-level directive.\n             */\n            get: function () {\n                return\n                controlPath(this.name == null ? this.name : this.name.toString(), this._parent);\n            },\n            enumerable:\n            true,\n            configurable: true\n        });\n        Object.defineProperty(AbstractFormGroupDirective.prototype,\n        "formDirective", {\n            /**\n             * @description\n             * The top-level directive for this group if\n            present, otherwise null.\n            */\n            get: function () { return this._parent ? this._parent.formDirective : null;\n            },\n            enumerable: true,\n            configurable: true\n        });\n        Object.defineProperty(AbstractFormGroupDirective.prototype,\n        "validator", {\n            /**\n             * @description\n             * The synchronous validators registered with this\n            group.\n            */\n            get: function () { return composeValidators(this._validators); },\n            enumerable:\n            true,\n            configurable: true\n        });\n        Object.defineProperty(AbstractFormGroupDirective.prototype,\n        "asyncValidator", {\n            /**\n             * @description\n             * The async validators registered with this\n            group.\n            */\n            get: function () {\n                return\n                composeAsyncValidators(this._asyncValidators);\n            },\n            enumerable: true,\n            configurable: true\n        });\n    });\n\n    /** @internal */\n    AbstractFormGroupDirective.prototype._checkParentType = function () {\n        return\n        AbstractFormGroupDirective;\n    })(ControlContainer);\n\n    /**\n     * @license\n     * Copyright Google Inc. All\n     * Rights Reserved.\n     * Use of this source code is governed by an MIT-style license that can be\n     * found\n     * in the LICENSE file at https://angular.io/license\n     */\n    var TemplateDrivenErrors = /** @class */ (function ()\n    {\n        function TemplateDrivenErrors() {\n        }\n        TemplateDrivenErrors.modelParentException = function\n        () {\n            throw new Error("\n            ngModel cannot be used to register form controls with a parent formGroup\n            directive. Try using\n            formGroup's partner directive\n            \"formControlName\" instead. Example:\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);\n    });\n    TemplateDrivenErrors.formGroupNameException =
function () {\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 |" + FormErrorExamples.formGroupName + "\n\n Option 2: Update
ngModel's parent be ngModelGroup (template-driven strategy):\n\n |" +
FormErrorExamples.ngModelGroup);\n    });\n    TemplateDrivenErrors.missingNameException = function ()
{\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
TemplateDrivenErrors.modelGroupParentException = function () {\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 |" + FormErrorExamples.formGroupName
+ "\n\n Option 2: Use a regular form tag instead of the formGroup directive (template-driven strategy):\n\n
|" + FormErrorExamples.ngModelGroup);\n    });\n    return TemplateDrivenErrors;\n }());\n\n /**\n *
@license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by an
MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n var
modelGroupProvider = {\n    provide: ControlContainer,\n    useExisting: core.forwardRef(function () { return
NgModelGroup; })\n });\n\n /**\n * @description\n * Creates and binds a `FormGroup` instance to a DOM
element.\n * This directive can only be used as a child of `NgForm` (within `<form>` tags).\n *
Use this directive to validate a sub-group of your form separately from
the\n * rest of your form, or if some values in your domain model make more sense\n * to consume together in
a nested object.\n * Provide a name for the sub-group and it will become the key\n * for the sub-group in
the form's full value. If you need direct access, export the directive into\n * a local template variable using
`ngModelGroup` (ex: `#myGroup="ngModelGroup")`.\n * @usageNotes\n * ### Consuming
controls in a grouping\n * The following example shows you how to combine controls together in a sub-
group\n * of the form.\n * {@example forms/ts/ngModelGroup/ng_model_group_example.ts
region='Component'}\n * @ngModule FormsModule\n * @publicApi\n */\n var NgModelGroup =
/** @class */ (function (_super) {\n    __extends(NgModelGroup, _super);\n    function
NgModelGroup(parent, validators, asyncValidators) {\n        var _this = _super.call(this) || this;\n
        _this._parent = parent;\n        _this._validators = validators;\n        _this._asyncValidators = asyncValidators;\n
        return _this;\n    }\n    NgModelGroup_1 = NgModelGroup;\n\n    /** @internal */\n
NgModelGroup.prototype._checkParentType = function () {\n        if (!(this._parent instanceof
NgModelGroup_1) && !(this._parent instanceof NgForm)) {\n
TemplateDrivenErrors.modelGroupParentException();\n        }\n    });\n    var NgModelGroup_1;\n
__decorate([\n        core.Input('ngModelGroup'),\n        __metadata({"design:type": String})\n    ],
NgModelGroup.prototype, "name", void 0);\n    NgModelGroup = NgModelGroup_1 = __decorate([\n
core.Directive({ selector: '[ngModelGroup]', providers: [modelGroupProvider], exportAs: 'ngModelGroup' }),\n
__param(0, core.Host()), __param(0, core.SkipSelf()),\n        __param(1, core.Optional()), __param(1,
core.Self()), __param(1,
core.Inject(NG_VALIDATORS)),\n        __param(2, core.Optional()), __param(2, core.Self()), __param(2,
core.Inject(NG_ASYNC_VALIDATORS)),\n        __metadata({"design:paramtypes": [ControlContainer, Array,
Array]})\n    ], NgModelGroup);\n    return NgModelGroup;\n })(AbstractFormGroupDirective);\n\n /**\n *
@license\n * Copyright Google Inc. All Rights Reserved.\n * Use of this source code is governed by
an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n var
formControlBinding = {\n    provide: NgControl,\n    useExisting: core.forwardRef(function () { return

```

```
NgModel; })\n  });\n  var OS1 = function () { return Promise.resolve(null); };\n  /**\n   * `ngModel` forces an additional change detection run when its inputs change:\n   * E.g.:\n   * ```\n   * <div>{{ myModel.valid }}</div>\n   * <input [(ngModel)]="myValue" #myModel="ngModel">\n   * ```\n   * 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 an old value as they have been dirty checked before. As this is a very common case for `ngModel`, we added this second change detection run. Notes - this is just one extra run no matter how many `ngModel` have been changed. - this is a general problem when using `exportAs` for directives!

```
\n  var resolvedPromise$1 = (OS1)();\n  /**\n   * @description\n   * Creates a `FormControl` instance from a domain model and binds it to a form control element.\n   * The `FormControl` instance tracks the value, user interaction, and validation status of the control and keeps the view synced with the model. If used within a parent form, the directive also registers itself with the form as a child control.\n
```

```
\n  * This directive is used by itself or as part of a larger form. Use the `ngModel` selector to activate it.\n  * It accepts a domain model as an optional `Input`. If you have a one-way binding to `ngModel` with `[]` syntax, changing the value of the domain model in the component class sets the value in the view. If you have a two-way binding with `[()]` syntax (also known as 'banana-box syntax'), the value in the UI always syncs back to the domain model in your class.\n  * 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"`).\n  * You then access the control using the directive's `control` property, but most properties used (like `valid` and `dirty`) fall through to the control anyway for direct access. See a full list of properties directly available
```

```
in `AbstractControlDirective`.\n  * @see `RadioControlValueAccessor`\n  * @see `SelectControlValueAccessor`\n  * @usageNotes\n  * ### Using ngModel on a standalone control\n  * The following examples show a simple standalone control using `ngModel`:\n  * { @example\n  forms/ts/simpleNgModel/simple_ng_model_example.ts region='Component'}\n  * 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.\n  * 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.\n  * 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.\n  * ### Using ngModel within a form\n  * The following example shows controls using `ngModel` within a form:\n  * { @example\n  forms/ts/simpleForm/simple_form_example.ts region='Component'}\n  * ### Using a standalone ngModel within a group\n  * 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.\n  * ```html\n  <form>\n  <input name="login" ngModel placeholder="Login">\n  <input type="checkbox" ngModel [ngModelOptions]="{standalone: true}"> Show more options?\n  </form>\n  <!-- form value: {login: } -->\n  ```\n  * ### Setting the ngModel name attribute through options\n
```

```
\n  * 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.\n  * ```html\n  <form>\n  <my-person-control name="Nancy" ngModel [ngModelOptions]="{ name: 'user' }">\n  </my-person-control>\n  </form>\n  <!-- form value: {user: } -->\n  ```\n  * @ngModule\n  FormsModule\n  * @publicApi\n  var NgModel = /** @class */ (function (_super) {\n  __extends(NgModel, _super);\n  function NgModel(parent, validators, asyncValidators, valueAccessors) {\n  var _this = _super.call(this) || this;\n  _this.control = new FormControl();\n  /** @internal */\n  _this._registered = false;\n  /**\n   * @description\n   * Event emitter for producing the
```



```

`ngModelChange` event after\n      * the view model updates.\n
    */\n      _this.update = new core.EventEmitter();\n      _this._parent = parent;\n
    _this._rawValidators = validators || [];\n      _this._rawAsyncValidators = asyncValidators || [];\n
    _this.valueAccessor = selectValueAccessor(_this, valueAccessors);\n      return _this;\n    }\n    /**\n    *
    @description\n      * A lifecycle method called when the directive's inputs change. For internal use\n      * only.\n
    */\n      * @param changes A object of key/value pairs for the set of changed inputs.\n      */\n
    NgModel.prototype.ngOnChanges = function (changes) {\n      this._checkForErrors();\n      if
    (!this._registered)\n      this._setUpControl();\n      if ('isDisabled' in changes) {\n
    this._updateDisabled(changes);\n      }\n      if (isPropertyUpdated(changes, this.viewModel)) {\n
    this._updateValue(this.model);\n
      this.viewModel = this.model;\n      }\n    }; \n    /**\n    * @description\n    * Lifecycle
    method called before the directive's instance is destroyed. For internal\n    * use only.\n    */\n
    NgModel.prototype.ngOnDestroy = function () { this.formDirective && this.formDirective.removeControl(this);
    }; \n    Object.defineProperty(NgModel.prototype, "path", {\n      /**\n      * @description\n      *
    Returns an array that represents the path from the top-level form to this control.\n      * Each index is the string
    name of the control on that level.\n      */\n      get: function () {\n      return this._parent ?
    controlPath(this.name, this._parent) : [this.name];\n      },\n      enumerable: true,\n      configurable:
    true\n    }); \n    Object.defineProperty(NgModel.prototype, "formDirective", {\n      /**\n      *
    @description\n      *
    The top-level directive for this control if present, otherwise null.\n      */\n      get: function () { return
    this._parent ? this._parent.formDirective : null; },\n      enumerable: true,\n      configurable: true\n    }); \n
    Object.defineProperty(NgModel.prototype, "validator", {\n      /**\n      * @description\n      *
    Synchronous validator function composed of all the synchronous validators\n      * registered with this
    directive.\n      */\n      get: function () { return composeValidators(this._rawValidators); },\n      enumerable: true,\n
    configurable: true\n    }); \n    Object.defineProperty(NgModel.prototype,
    "asyncValidator", {\n      /**\n      * @description\n      *
    Async validator function composed of all the
    async validators registered with this\n      * directive.\n      */\n      get: function () {\n      return
    composeAsyncValidators(this._rawAsyncValidators);\n      },\n      enumerable: true,\n      configurable:
    true\n    }); \n    /**\n    * @description\n    * Sets the new value for the view model and emits an
    `ngModelChange` event.\n    */\n      * @param newValue The new value emitted by `ngModelChange`.\n
    */\n      NgModel.prototype.viewToModelUpdate = function (newValue) {\n      this.viewModel = newValue;\n
    this.update.emit(newValue);\n    }; \n    NgModel.prototype._setUpControl = function () {\n
    this._setUpUpdateStrategy();\n      this._isStandalone() ? this._setUpStandalone() :\n
    this.formDirective.addControl(this);\n      this._registered = true;\n    }; \n
    NgModel.prototype._setUpUpdateStrategy = function () {\n      if (this.options && this.options.updateOn != null)
    {\n      this.control._updateOn = this.options.updateOn;\n      }\n
    }; \n    NgModel.prototype._isStandalone = function () {\n      return !this._parent || !(this.options &&
    this.options.standalone);\n    }; \n    NgModel.prototype._setUpStandalone = function () {\n
    setUpControl(this.control, this);\n      this.control.updateValueAndValidity({ emitEvent: false });\n    }; \n
    NgModel.prototype._checkForErrors = function () {\n      if (!this._isStandalone()) {\n
    this._checkParentType();\n      }\n      this._checkName();\n    }; \n
    NgModel.prototype._checkParentType = function () {\n      if (!(this._parent instanceof NgModelGroup) &&\n
    this._parent instanceof AbstractFormGroupDirective) {\n
    TemplateDrivenErrors.formGroupNameException();\n      }\n      else if (!(this._parent instanceof
    NgModelGroup) && !(this._parent instanceof NgForm)) {\n
    TemplateDrivenErrors.modelParentException();\n      }\n
    }; \n    NgModel.prototype._checkName = function () {\n      if (this.options && this.options.name)\n
    this.name = this.options.name;\n      if (!this._isStandalone() && !this.name) {\n

```

```

TemplateDrivenErrors.missingNameException();\n      }\n    });\n    NgModel.prototype._updateValue =
function (value) {\n      var _this = this;\n      resolvedPromise$1.then(function () {\n
    _this.control.setValue(value, { emitViewToModelChange: false }); });\n    });\n
NgModel.prototype._updateDisabled = function (changes) {\n      var _this = this;\n      var disabledValue =
changes['isDisabled'].currentValue;\n      var isDisabled = disabledValue === " || (disabledValue &&
disabledValue !== 'false');\n      resolvedPromise$1.then(function () {\n        if (isDisabled &&
!_this.control.disabled) {\n          _this.control.disable();\n        }\n        else\n        if (!isDisabled && _this.control.disabled) {\n          _this.control.enable();\n        }\n      });\n    });\n
    __decorate([\n      core.Input(),\n      __metadata({"design:type", String)\n    ], NgModel.prototype,
\'name\', void 0);\n    __decorate([\n      core.Input('disabled'),\n      __metadata({"design:type",
Boolean)\n    ], NgModel.prototype, \'isDisabled\', void 0);\n    __decorate([\n      core.Input('ngModel'),\n      __metadata({"design:type", Object)\n    ], NgModel.prototype, \'model\', void 0);\n    __decorate([\n      core.Input('ngModelOptions'),\n      __metadata({"design:type", Object)\n    ], NgModel.prototype,
\'options\', void 0);\n    __decorate([\n      core.Output('ngModelChange'),\n      __metadata({"design:type", Object)\n    ], NgModel.prototype, \'update\', void 0);\n    NgModel =
__decorate([\n      core.Directive({\n
        selector: '[ngModel]:not([formControlName]):not([formControl])',\n        providers:
[formControlBinding],\n        exportAs: 'ngModel'\n      })),\n      __param(0, core.Optional()),
__param(0, core.Host()),\n      __param(1, core.Optional()), __param(1, core.Self()), __param(1,
core.Inject(NG_VALIDATORS)),\n      __param(2, core.Optional()), __param(2, core.Self()), __param(2,
core.Inject(NG_ASYNC_VALIDATORS)),\n      __param(3, core.Optional()), __param(3, core.Self()),
__param(3, core.Inject(NG_VALUE_ACCESSOR)),\n      __metadata({"design:paramtypes",
[ControlContainer,\n      Array,\n      Array, Array]\n    }, NgModel)];\n    return NgModel;\n
  })(NgControl));\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   * @description\n   *\n   * Adds `novalidate` attribute to all forms by default.\n   *\n   *
`novalidate` is used to disable browser's native form validation.\n   *\n   * If you want to use native validation
with Angular forms, just add `ngNativeValidate` attribute:\n   *\n   * ```\n   * <form
ngNativeValidate></form>\n   * ```\n   * @publicApi\n   * @ngModule ReactiveFormsModule\n   *
@ngModule FormsModule\n   *\n   var NgNoValidate = /** @class */ (function () {\n    function
NgNoValidate() {\n    }\n    NgNoValidate = __decorate([\n      core.Directive({\n        selector:
'form:not([ngNoForm]):not([ngNativeValidate])',\n        host: { 'novalidate': " },\n      })),\n    ],
NgNoValidate);\n    return NgNoValidate;\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   * @description\n   * @description\n   * * Syncs a standalone `FormControl` instance to a form control element.\n   *\n   * @see
[Reactive Forms Guide](guide/reactive-forms)\n   * @see `FormControl`\n   * @see `AbstractControl`\n   *\n   * @usageNotes\n   *\n   * ### Registering a single form control\n   *\n   * The following examples shows how
to register a standalone control and set its value.\n   *\n   * {@example
forms/ts/simpleFormControl/simple_form_control_example.ts region='Component'}\n   *\n   * ### Use with ngModel\n   *\n   * Support for using the `ngModel` input property and `ngModelChange`
event with reactive\n   * form directives has been deprecated in Angular v6 and will be removed in a future
version\n   * of Angular.\n   *\n   * Now deprecated:\n   *\n   * ```\n   * <input [formControl]="control"

```

```

[(ngModel)]="value">\n * ``\n * \n * ``ts\n * this.value = 'some value';\n * ``\n * \n * This has
been deprecated for a few reasons. First, developers have found this pattern\n * confusing. It seems like the actual
`ngModel` directive is being used, but in fact it's\n * 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 * \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 * \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 * \n * After (choice 1 - use reactive
forms):\n * \n * ``html\n * <input [formControl]="control">\n * ``\n * \n * ``ts\n *
this.control.setValue('some value');\n * ``\n * \n
* After (choice 2 - use template-driven forms):\n * \n * ``html\n * <input [(ngModel)]="value">\n *
``\n * \n * ``ts\n * this.value = 'some value';\n * ``\n * \n * By default, when you use this pattern,
you will see a deprecation warning once in dev\n * mode. You can choose to silence this warning by providing a
config for\n * `ReactiveFormsModule` at import time:\n * \n * ``ts\n * imports: [\n *
ReactiveFormsModule.withConfig({ warnOnNgModelWithFormControl: 'never'});\n * ]\n * ``\n * \n *
Alternatively, you can choose to surface a separate warning for each instance of this\n * pattern 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.\n * \n * @ngModule ReactiveFormsModule\n * @publicApi\n * \n var
FormControlDirective = /** @class */ (function (_super) {\n * __extends(FormControlDirective,
_super);\n * function FormControlDirective(validators, asyncValidators, valueAccessors,
_ngModelWarningConfig) {\n * var _this = _super.call(this) || this;\n * _this._ngModelWarningConfig =
_ngModelWarningConfig;\n * /** @deprecated as of v6 *\n * _this.update = new core.EventEmitter();\n *
*/\n * @description\n * Instance property used to track whether an ngModel warning has been
sent out for this\n * particular `FormControlDirective` instance. Used to support warning config of
"always".\n * \n * @internal\n * \n * _this._ngModelWarningSent = false;\n *
_this._rawValidators = validators || [];\n * _this._rawAsyncValidators = asyncValidators || [];\n *
_this.valueAccessor = selectValueAccessor(_this, valueAccessors);\n * return _this;\n * }\n
FormControlDirective_1 = FormControlDirective;\n
Object.defineProperty(FormControlDirective.prototype, "isDisabled", {\n * /**\n * @description\n
* Triggers a warning that this input should not be used with reactive forms.\n * \n * set: function
(isDisabled) { ReactiveErrors.disabledAttrWarning(); },\n * enumerable: true,\n * configurable: true\n
});\n * /**\n * @description\n * A lifecycle method called when the directive's inputs change. For
internal use\n * only.\n * \n * @param changes A object of key/value pairs for the set of changed
inputs.\n * \n * FormControlDirective.prototype.ngOnChanges = function (changes) {\n * if
(this._isControlChanged(changes)) {\n * setUpControl(this.form, this);\n * if (this.control.disabled
&& this.valueAccessor.setDisabledState) {\n * this.valueAccessor.setDisabledState(true);\n * }\n
}\n
this.form.updateValueAndValidity({ emitEvent: false });\n * }\n * if (isPropertyUpdated(changes,
this.viewModel)) {\n * _ngModelWarning('formControl', FormControlDirective_1, this,
this._ngModelWarningConfig);\n * this.form.setValue(this.model);\n * this.viewModel =
this.model;\n * }\n * });\n * Object.defineProperty(FormControlDirective.prototype, "path", {\n
*/\n * @description\n * Returns an array that represents the path from the top-level form to this
control.\n * \n * Each index is the string name of the control on that level.\n * \n * get: function () {

```

```

return []; },\n      enumerable: true,\n      configurable: true\n    });\n    Object.defineProperty(FormControlDirective.prototype, \"validator\", {\n      /**\n       * @description\n       * Synchronous validator function composed of all the synchronous\n       * validators\n       * registered with this directive.\n       */\n      get: function () { return\n        composeValidators(this._rawValidators); },\n      enumerable: true,\n      configurable: true\n    });\n    Object.defineProperty(FormControlDirective.prototype, \"asyncValidator\", {\n      /**\n       * @description\n       * Async validator function composed of all the async validators registered with this\n       * directive.\n       */\n      get: function () {\n        return\n          composeAsyncValidators(this._rawAsyncValidators);\n      },\n      enumerable: true,\n      configurable:\n        true\n    });\n    Object.defineProperty(FormControlDirective.prototype, \"control\", {\n      /**\n       * @description\n       * The `FormControl` bound to this directive.\n       */\n      get: function () { return\n        this.form; },\n      enumerable: true,\n      configurable: true\n    });\n    /**\n     * @description\n     * Sets the new value for the view model\n     * and emits an `ngModelChange` event.\n     * @param newValue The new value for the view model.\n     */\n    FormControlDirective.prototype.viewToModelUpdate = function (newValue) {\n      this.viewModel\n        = newValue;\n      this.update.emit(newValue);\n    };\n    FormControlDirective.prototype._isControlChanged = function (changes) {\n      return\n        changes.hasOwnProperty('form');\n    }; \n    var FormControlDirective_1;\n    /**\n     * @description\n     * Static property used to track whether any ngModel warnings have been sent across\n     * all instances of\n     * FormControlDirective. Used to support warning config of \"once\".\n     * @internal\n     */\n    FormControlDirective._ngModelWarningSentOnce = false;\n    __decorate([\n      core.Input('formControl'),\n      __metadata(\"design:type\", FormControl)\n    ], FormControlDirective.prototype, \"form\", void 0);\n    __decorate([\n      core.Input('disabled'),\n      __metadata(\"design:type\", Boolean)\n    ], FormControlDirective.prototype, \"isDisabled\", null);\n    __metadata(\"design:paramtypes\", [Boolean])\n    ], FormControlDirective.prototype, \"isDisabled\", null);\n    __decorate([\n      core.Input('ngModel'),\n      __metadata(\"design:type\", Object)\n    ],\n    FormControlDirective.prototype, \"model\", void 0);\n    __decorate([\n      core.Output('ngModelChange'),\n      __metadata(\"design:type\", Object)\n    ], FormControlDirective.prototype, \"update\", void 0);\n    FormControlDirective = FormControlDirective_1 = __decorate([\n      core.Directive({ selector: '[formControl]',\n        providers: [formControlBinding$1], exportAs: 'ngForm' }),\n      __param(0, core.Optional()), __param(0,\n        core.Self()), __param(0, core.Inject(NG_VALIDATORS)),\n      __param(1, core.Optional()), __param(1, core.Self()), __param(1,\n        core.Inject(NG_ASYNC_VALIDATORS)),\n      __param(2, core.Optional()), __param(2, core.Self()),\n      __param(2, core.Inject(NG_VALUE_ACCESSOR)),\n      __param(3, core.Optional()), __param(3,\n        core.Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING)),\n      __metadata(\"design:paramtypes\",\n        [Array,\n          Array, Array, Object])\n    ], FormControlDirective);\n    return FormControlDirective;\n  } (NgControl));\n  /**\n   * @license\n   * Copyright Google Inc. All Rights Reserved.\n   * Use of this\n   * source code is governed by an MIT-style license that can be\n   * found in the LICENSE file at\n   * https://angular.io/license\n   */\n  var formDirectiveProvider$1 = {\n    provide: ControlContainer,\n    useExisting: core.forwardRef(function () { return FormGroupDirective; })\n  }; \n  /**\n   * @description\n   * Binds an existing `FormGroup` to\n   * a DOM element.\n   * This directive accepts an existing `FormGroup` instance. It will then use this\n   * `FormGroup` instance to match any child `FormControl`, `FormGroup`,\n   * and `FormArray` instances to child\n   * `FormControlName`, `FormGroupName`,\n   * and `FormArrayName` directives.\n   * @see [Reactive\n   * Forms Guide](guide/reactive-forms)\n   * @see `AbstractControl`\n   * ### Register Form Group\n   * The following example registers a `FormGroup` with first name and last name controls,\n   * and listens for the\n   * `ngSubmit` event when the button is clicked.\n   * @example\n   * forms/ts/simpleFormGroup/simple_form_group_example.ts region='Component'\n   * @ngModule\n   * ReactiveFormsModule\n   * @publicApi\n   */\n  var FormGroupDirective = /** @class */ (function (_super)

```

```

{\n    __extends(FormGroupDirective, _super);\n    function FormGroupDirective(_validators,\n    _asyncValidators) {\n        var _this =\n        _super.call(this) || this;\n        _this._validators = _validators;\n        _this._asyncValidators =\n        _asyncValidators;\n        /**\n         * @description\n         * Reports whether the form submission has been\n        triggered.\n         */\n        _this.submitted = false;\n        /**\n         * @description\n         * Tracks the\n        list of added `FormControlName` instances\n         */\n        _this.directives = [];\n        /**\n         * @description\n         * Tracks the `FormGroup` bound to this directive.\n         */\n        _this.form = null;\n        /**\n         * @description\n         * Emits an event when the form submission has been triggered.\n        */\n        _this.ngSubmit = new core.EventEmitter();\n        return _this;\n    }\n    /**\n     * @description\n     * A lifecycle method called when the directive's inputs change. For internal use only.\n     */\n     * @param changes A object of key/value pairs for the set of changed inputs.\n     */\n    FormGroupDirective.prototype.ngOnChanges = function (changes) {\n        this._checkFormPresent();\n        if\n        (changes.hasOwnProperty('form')) {\n            this._updateValidators();\n            this._updateDomValue();\n            this._updateRegistrations();\n        }\n    }; \n    Object.defineProperty(FormGroupDirective.prototype,\n    \"formDirective\", {\n        /**\n         * @description\n         * Returns this directive's instance.\n         */\n        get: function () { return this; },\n        enumerable: true,\n        configurable: true\n    });\n    Object.defineProperty(FormGroupDirective.prototype, \"control\", {\n        /**\n         * @description\n         * Returns the `FormGroup` bound to this directive.\n         */\n        get: function () { return this.form;\n        },\n        enumerable: true,\n        configurable: true\n    });\n    Object.defineProperty(FormGroupDirective.prototype, \"path\", {\n        /**\n         * @description\n         * Returns an array representing the path to this group. Because this directive\n         * always lives at the top level of\n        a form, it always an empty array.\n         */\n        get: function () { return []; },\n        enumerable: true,\n        configurable: true\n    });\n    /**\n     * @description\n     * Method that sets up the control directive in\n        this group, re-calculates its value\n     * and validity, and adds the instance to the internal list of directives.\n     */\n     * @param dir The `FormControlName` directive instance.\n     */\n    FormGroupDirective.prototype.addControl = function (dir) {\n        var ctrl = this.form.get(dir.path);\n        setUpControl(ctrl, dir);\n        ctrl.updateValueAndValidity({\n            emitEvent: false });\n        this.directives.push(dir);\n        return ctrl;\n    }; \n    /**\n     * @description\n     * Retrieves the `FormControl` instance from the provided `FormControlName` directive\n     */\n     * @param dir The `FormControlName` directive instance.\n     */\n    FormGroupDirective.prototype.getControl = function (dir) { return this.form.get(dir.path); }; \n    /**\n     * @description\n     * Removes the `FormControlName` instance from the internal list of directives\n     */\n     * @param dir The `FormControlName` directive instance.\n     */\n    FormGroupDirective.prototype.removeControl = function (dir) { removeDir(this.directives, dir); }; \n    /**\n     * @description\n     * Adds a new `FormGroupName` directive instance to the form.\n     */\n     * @param dir The\n    `FormGroupName` directive instance.\n     */\n    FormGroupDirective.prototype.addFormGroup = function\n    (dir) {\n        var ctrl = this.form.get(dir.path);\n        setUpFormContainer(ctrl, dir);\n        ctrl.updateValueAndValidity({ emitEvent: false });\n    }; \n    /**\n     * @description\n     * No-op method to remove the form\n        group.\n     */\n     * @param dir The `FormGroupName` directive instance.\n     */\n    FormGroupDirective.prototype.removeFormGroup = function (dir) { }; \n    /**\n     * @description\n     * Retrieves the `FormGroup` for a provided `FormGroupName` directive instance\n     */\n     * @param dir The\n    `FormGroupName` directive instance.\n     */\n    FormGroupDirective.prototype.getFormGroup = function\n    (dir) { return this.form.get(dir.path); }; \n    /**\n     * @description\n     * Adds a new `FormArrayName` directive instance to the\n        form.\n     */\n     * @param dir The `FormArrayName` directive instance.\n     */\n    FormGroupDirective.prototype.addFormArray = function (dir) {\n        var ctrl = this.form.get(dir.path);\n        setUpFormContainer(ctrl, dir);\n        ctrl.updateValueAndValidity({ emitEvent: false });\n    }; \n    /**\n     * @description\n     * No-op method to remove the form array.\n     */\n     * @param dir The `FormArrayName`\n    directive instance.\n     */\n    FormGroupDirective.prototype.removeFormArray = function (dir) { }; \n}

```

```

/**\n      * @description\n      * Retrieves the `FormArray` for a provided `FormArrayName` directive
instance.\n      *\n      * @param dir The `FormArrayName` directive instance.\n      */\n
FormGroupDirective.prototype.getFormArray = function (dir) { return this.form.get(dir.path); };\n      /**\n      *
Sets the new value for the provided `FormControlName` directive.\n      *\n      * @param dir The
`FormControlName` directive instance.\n      * @param value The new value for the directive's control.\n      */\n
FormGroupDirective.prototype.updateModel = function (dir, value)
{\n      var ctrl = this.form.get(dir.path);\n      ctrl.setValue(value);\n      };\n      /**\n      *
@description\n      * Method called with the "submit" event is triggered on the form.\n      * Triggers the
`ngSubmit` emitter to emit the "submit" event as its payload.\n      *\n      * @param $event The "submit"
event object\n      */\n      FormGroupDirective.prototype.onSubmit = function ($event) {\n      this.submitted
= true;\n      syncPendingControls(this.form, this.directives);\n      this.ngSubmit.emit($event);\n
return false;\n      };\n      /**\n      * @description\n      * Method called when the "reset" event is triggered
on the form.\n      */\n      FormGroupDirective.prototype.onReset = function () { this.resetForm(); };\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      FormGroupDirective.prototype.resetForm = function (value) {\n
if (value === void 0) { value = undefined; }\n      this.form.reset(value);\n      this.submitted = false;\n
};\n      /** @internal */\n      FormGroupDirective.prototype._updateDomValue = function () {\n      var _this
= this;\n      this.directives.forEach(function (dir) {\n      var newCtrl = _this.form.get(dir.path);\n
if (dir.control !== newCtrl) {\n      cleanUpControl(dir.control, dir);\n      if (newCtrl)\n
      setUpControl(newCtrl, dir);\n      dir.control = newCtrl;\n      });\n
this.form._updateTreeValidity({ emitEvent: false });\n      });\n
FormGroupDirective.prototype._updateRegistrations = function () {\n      var _this = this;\n
this.form._registerOnCollectionChange(function
() { return _this._updateDomValue(); });\n      if (this._oldForm)\n
this._oldForm._registerOnCollectionChange(function () { });\n      this._oldForm = this.form;\n      });\n
FormGroupDirective.prototype._updateValidators = function () {\n      var sync =
composeValidators(this._validators);\n      this.form.validator = Validators.compose([this.form.validator,
sync]);\n      var async = composeAsyncValidators(this._asyncValidators);\n      this.form.asyncValidator =
Validators.composeAsync([this.form.asyncValidator, async]);\n      });\n
FormGroupDirective.prototype._checkFormPresent = function () {\n      if (!this.form) {\n
ReactiveErrors.missingFormException();\n      }\n      };\n      __decorate([\n      core.Input('formGroup'),\n
      __metadata("design:type", FormGroup)\n      ], FormGroupDirective.prototype, "form", void 0);\n
__decorate([\n
      core.Output(),\n      __metadata("design:type", Object)\n      ], FormGroupDirective.prototype,
"ngSubmit", void 0);\n      FormGroupDirective = __decorate([\n      core.Directive({\n      selector:
'formGroup',\n      providers: [formDirectiveProvider$1],\n      host: { '(submit)': 'onSubmit($event)',
'(reset)': 'onReset()' },\n      exportAs: 'ngForm'\n      }),\n      __param(0, core.Optional()), __param(0,
core.Self()), __param(0, core.Inject(NG_VALIDATORS)),\n      __param(1, core.Optional()), __param(1,
core.Self()), __param(1, core.Inject(NG_ASYNC_VALIDATORS)),\n      __metadata("design:paramtypes",
[Array, Array])\n      ], FormGroupDirective);\n      return FormGroupDirective;\n      })(ControlContainer);\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 formGroupNameProvider = {\n      provide:
ControlContainer,\n      useExisting: core.forwardRef(function () { return FormGroupName; })\n      };\n      /**\n      *
@description\n      *\n      * Syncs a nested `FormGroup` to a DOM element.\n      *\n      * This directive can only be
used with a parent `FormGroupDirective`.\n      *\n      * It accepts the string name of the nested `FormGroup` to link,
and\n      * looks for a `FormGroup` registered with that name in the parent\n      * `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.
 * @see [Reactive Forms Guide](guide/reactive-forms)
 * @usageNotes
 * ### Access the group by name
 * The following example uses the {@link AbstractControl#get
get} method to access the associated `FormGroup`.
 * ```ts
 * this.form.get('name');
 * ```
 * ### Access individual controls in the group
 * The following example uses the {@link
AbstractControl#get get} method to access individual controls within the group using dot syntax.
 * ```ts
 * this.form.get('name.first');
 * ```
 * ### Register a nested `FormGroup`
 * The following example registers a nested `FormGroup` within an existing `FormGroup`, and provides
methods to retrieve the nested `FormGroup` and individual controls.
 * @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;
 }
 /** @internal */
 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.Host()),
 __param(0, core.SkipSelf()),
 __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)),
 __metadata({"design:paramtypes": [ControlContainer, Array, Array]
}),
FormGroupName);
 return
FormGroupName;
})(AbstractFormGroupDirective);
 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 `FormGroup` instance you passed into `FormGroupDirective`.
 * @see [Reactive Forms
Guide](guide/reactive-forms)
 * @see `AbstractControl`
 * @usageNotes
 * ### Example
 * @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;
 }
 /**
 * @description
 * A lifecycle method called when the directive's
inputs are initialized. For internal use only.
 * @throws If the directive does not have a valid parent.
 */
 FormArrayName.prototype.ngOnInit = function () {
 this._checkParentType();
 this.formDirective.addFormArray(this);
 };
 /**
 * @description
 * A lifecycle method called before the directive's instance is destroyed.
For internal use only.
 */
 FormArrayName.prototype.ngOnDestroy = function () {
 if
(this.formDirective) {
 this.formDirective.removeFormArray(this);
 }
 };
 Object.defineProperty(FormArrayName.prototype, "control", {
 /**
 * @description
 * The `FormArray` bound to this directive.
 */
get: function () { return
this.formDirective.getFormArray(this);
 },
enumerable: true,
configurable: true
});
 Object.defineProperty(FormArrayName.prototype, "formDirective", {
 /**
 * @description
 * The top-level directive for this group if present, otherwise null.
 */
get: function () {

```

```

return this._parent ? this._parent.formDirective
: null;
},
enumerable: true,
configurable: true
});
Object.defineProperty(FormArrayName.prototype, "path", {
/**
 * @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.Self()), __param(1, core.Inject(NG_VALIDATORS)),
__param(2, core.Optional()), __param(2, core.Self()), __param(2, core.Inject(NG_ASYNC_VALIDATORS)),
__metadata({"design:paramtypes", [ControlContainer, Array, Array]})
], FormArrayName);
return FormArrayName;
})(ControlContainer);
function _hasInvalidParent(parent) {
return !(parent instanceof FormGroupName) && !(parent instanceof FormGroupDirective) &&
!(parent instanceof 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
 */
var controlNameBinding = {
provide:
NgControl,
useExisting: core.forwardRef(function () {
return FormControlName;
})
};
/**
 * @description
 * Syncs a `FormControl` in an existing `FormGroup` to a form control
 * element by name.
 * @see [Reactive Forms Guide](guide/reactive-forms)
 * @see `FormControl`
 * @see `AbstractControl`
 * @usageNotes
 * ### Register `FormControl` within a group
 * The following example shows how to register multiple form controls within a form group
 * and set their value.
 * @example forms/ts/simpleFormGroup/simple_form_group_example.ts region='Component'
 * To see `FormControlName` examples with different form control types, see:
 * * Radio buttons: `RadioControlValueAccessor`
 * * Selects: `SelectControlValueAccessor`
 * * ### Use with ngModel
 * Support for using the `ngModel` input property and `ngModelChange` event with
 * reactive
 * form directives has been deprecated in Angular v6 and will be removed in a future
 * version of Angular.
 * Now deprecated:
 * ```html
 * <form [formGroup]="form">
 * <input formControlName="first" [(ngModel)]="value">
 * </form>
 * ```
 * ts
 * this.value = 'some value';
 * ```
 * This has been deprecated for a few reasons. First, developers have found this
 * pattern
 * confusing. It seems like the actual `ngModel` directive is being used, but in fact it's
 * an
 * input/output property named `ngModel` on the reactive form directive that simply
 * approximates (some of) its
 * behavior. Specifically, it allows getting/setting the value
 * and intercepting value events. However, some of
 * `ngModel`'s other features - like
 * delaying updates with `ngModelOptions` or exporting the directive - simply
 * don't work,
 * which has understandably caused some confusion.
 * In addition, this pattern mixes template-driven and reactive forms strategies, which
 * we generally
 * don't recommend because it doesn't take advantage of the full benefits of
 * 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):

```

<form [formGroup]="form">
  <input formControlName="first">
</form>
this.form.get('first').setValue('some value');

```

After (choice 2 - use template-driven forms):

```

<input [(ngModel)]="value">
  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:

```

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.

```

@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;
    /** @deprecated as of v6 */
    _this.update
    = new core.EventEmitter();
    /**
     * @description
     * Instance property used to track whether
    an ngModel warning has been sent out for this
     * particular FormControlName instance. Used to support
    warning config of "always".
     * @internal
     */
    _this._ngModelWarningSent =
    false;
    _this._parent = parent;
    _this._rawValidators = validators || [];
    _this._rawAsyncValidators = asyncValidators || [];
    _this.valueAccessor = selectValueAccessor(_this,
    valueAccessors);
    return _this;
  }
  FormControlName_1 = FormControlName;
  Object.defineProperty(FormControlName.prototype,
  'isDisabled', {
    /**
     * @description
     * Triggers a warning that this input should not be
    used with reactive forms.
     */
    set: function (isDisabled) { ReactiveErrors.disabledAttrWarning();
    },
    enumerable: true,
    configurable: true
  });
  /**
   * @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.
   */
  FormControlName.prototype.ngOnChanges = function (changes) {
    if (!this._added)
    this._setUpControl();
    if (isPropertyUpdated(changes, this.viewModel)) {
    _ngModelWarning('formControlName', FormControlName_1, this, this._ngModelWarningConfig);
    this.viewModel = this.model;
    this.formDirective.updateModel(this, this.model);
    }
  };
  /**
   * @description
   * Lifecycle method called before the directive's instance is destroyed. For internal
  use only.
   */
  FormControlName.prototype.ngOnDestroy = function () {
    if (this.formDirective)
    {
    this.formDirective.removeControl(this);
    }
  };
  /**
   * @description
   *
  Sets the new value for the view model and emits an `ngModelChange` event.
   * @param newValue
  The new value for the view model.
   */
  FormControlName.prototype.viewToModelUpdate = function
  (newValue) {
    this.viewModel = newValue;
    this.update.emit(newValue);
  };
  Object.defineProperty(FormControlName.prototype, 'path', {
    /**
     * @description
     *
    Returns an array that
     * represents the path from the top-level form to this control.
     * Each index is the string name of the control
    on that level.
     */
    get: function () {
    return controlPath(this.name == null ? this.name :
    this.name.toString(), this._parent);
    },
    enumerable: true,
    configurable: true
  });
  Object.defineProperty(FormControlName.prototype, 'formDirective', {
    /**
     * @description
     *
    The top-level directive for this group if present, otherwise null.
     */
    get: function () {
    return

```

```

this._parent ? this._parent.formDirective : null; },\n      enumerable: true,\n      configurable: true\n    });\n    Object.defineProperty(FormControlName.prototype, "validator", {\n      /**\n       * Synchronous validator function composed of all the synchronous validators\n       * registered with this directive.\n       */\n      get: function () { return\ncomposeValidators(this._rawValidators); },\n      enumerable: true,\n      configurable: true\n    });\n    Object.defineProperty(FormControlName.prototype, "asyncValidator", {\n      /**\n       * Async validator function composed of all the async validators registered with this\n       * directive.\n       */\n      get: function () {\n        return composeAsyncValidators(this._rawAsyncValidators);\n      },\n      enumerable: true,\n      configurable: true\n    });\n    FormControlName.prototype._checkParentType =\nfunction () {\n  if (!(this._parent instanceof FormGroupName) &&\n    this._parent instanceof\nAbstractFormGroupDirective) {\n    ReactiveErrors.ngModelGroupException();\n  } else if\n(!this._parent instanceof FormGroupName)\n&& !(this._parent instanceof FormGroupDirective) &&\n  !(this._parent instanceof FormArrayName)) {\n    ReactiveErrors.controlParentException();\n  }\n};\n    FormControlName.prototype._setUpControl = function () {\n      this._checkParentType();\n      this.control\n= this.formDirective.addControl(this);\n      if (this.control.disabled && this.valueAccessor.setDisabledState) {\n        this.valueAccessor.setDisabledState(true);\n      }\n      this._added = true;\n    }; \n    var\nFormControlName_1;\n    /**\n     * Static property used to track whether any ngModel\n     warnings have been sent across\n     * all instances of FormControlName. Used to support warning config of\n     \"once\".\n     */\n     * @internal\n     */\n     FormControlName._ngModelWarningSentOnce = false;\n    __decorate([\n      core.Input('formControlName'),\n      __metadata({"design:type": Object})\n    ], FormControlName.prototype, "name", void 0);\n    __decorate([\n      core.Input('disabled'),\n      __metadata({"design:type": Boolean})\n    ], FormControlName.prototype, "isDisabled", null);\n    __metadata({"design:paramtypes": [Boolean]})\n    ], FormControlName.prototype, "isDisabled", null);\n    __decorate([\n      core.Input('ngModel'),\n      __metadata({"design:type": Object})\n    ],\n    FormControlName.prototype, "model", void 0);\n    __decorate([\n      core.Output('ngModelChange'),\n      __metadata({"design:type": Object})\n    ], FormControlName.prototype, "update", void 0);\n    FormControlName = FormControlName_1 = __decorate([\n      core.Directive({ selector: '[formControlName]',\nproviders: [controlNameBinding] }),\n      __param(0, core.Optional()), __param(0, core.Host()), __param(0,\n      core.SkipSelf()),\n      __param(1, core.Optional()), __param(1, core.Self()),\n      __param(1, core.Inject(NG_VALIDATORS)),\n      __param(2, core.Optional()), __param(2, core.Self()),\n      __param(2, core.Inject(NG_ASYNC_VALIDATORS)),\n      __param(3, core.Optional()), __param(3,\n      core.Self()), __param(3, core.Inject(NG_VALUE_ACCESSOR)),\n      __param(4, core.Optional()), __param(4,\n      core.Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING)),\n      __metadata({"design:paramtypes":\n[ControlContainer,\n      Array,\n      Array, Array, Object]})\n    ], FormControlName);\n    return\n    FormControlName;\n  })(NgControl);\n  /**\n   * @license\n   * Copyright Google Inc. All Rights\n   Reserved.\n   * Use of this source code is governed by an MIT-style license that can be\n   * found in the\n   LICENSE file at https://angular.io/license\n   */\n   * @description\n   * Provider which adds\n   `RequiredValidator` to the `NG_VALIDATORS` multi-provider list.\n   */\n   var REQUIRED_VALIDATOR =\n{\n  provide:\n    NG_VALIDATORS,\n    useExisting: core.forwardRef(function () { return RequiredValidator; }),\n    multi:\n    true\n  };\n  /**\n   * @description\n   * Provider which adds `CheckboxRequiredValidator` to the\n   `NG_VALIDATORS` multi-provider list.\n   */\n   var CHECKBOX_REQUIRED_VALIDATOR = {\n    provide: NG_VALIDATORS,\n    useExisting: core.forwardRef(function () { return CheckboxRequiredValidator;\n    }),\n    multi: true\n  };\n  /**\n   * @description\n   * A directive that adds the `required` validator to any\n   controls marked with the\n   * `required` attribute. The directive is provided with the `NG_VALIDATORS`\n   multi-provider list.\n   * @see [Form Validation](guide/form-validation)\n   * @usageNotes\n   *  
### Adding a required validator using template-driven forms\n   *  
`<input name="fullName"

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ngModel required>\n *``\n *\n * @ngModule FormsModule\n * @ngModule ReactiveFormsModule\n * @publicApi\n *\n var RequiredValidator = /** @class */ (function () {\n function\n RequiredValidator() {\n } \n Object.defineProperty(RequiredValidator.prototype, "required", {\n /**\n * @description\n * Tracks changes to the required attribute bound to this directive.\n *\n get: function () { return this._required; },\n set: function (value) {\n this._required =\n value != null && value !== false && "\"" + value !== 'false';\n if (this._onChange)\n this._onChange();\n },\n enumerable: true,\n configurable: true\n });\n /**\n * @description\n * Method that validates whether the control is empty.\n * Returns the validation result if\n enabled, otherwise null.\n *\n RequiredValidator.prototype.validate = function (control) {\n return\n this.required\n ? Validators.required(control) : null;\n });\n /**\n * @description\n * Registers a callback\n function to call when the validator inputs change.\n *\n * @param fn The callback function\n *\n RequiredValidator.prototype.registerOnChange = function (fn) { this._onChange = fn; };\n __decorate([\n core.Input(),\n __metadata({"design:type": Object}),\n __metadata({"design:paramtypes": [Object]})\n ], RequiredValidator.prototype, "required", null);\n RequiredValidator = __decorate([\n core.Directive({\n selector:\n ':[type=checkbox][required][formControlName],:[not([type=checkbox])[required][formControl],:[not([type=checkbox])[required][ngModel]',\n providers: [REQUIRED_VALIDATOR],\n host: { 'attr.required':\n 'required ? \"\" : null' }\n })\n ], RequiredValidator);\n return RequiredValidator;\n }());\n /**\n * A Directive that adds the `required` validator to checkbox controls marked with the\n * `required` attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.\n * @see [Form Validation](guide/form-validation)\n *\n * @usageNotes\n *\n ### Adding a required checkbox\n validator using template-driven forms\n *\n * The following example shows how to add a checkbox required\n validator to an input attached to an ngModel binding.\n *\n *``\n * <input type="checkbox"\n name="active" ngModel required>\n *``\n *\n * @publicApi\n * @ngModule FormsModule\n * @ngModule ReactiveFormsModule\n *\n var CheckboxRequiredValidator = /** @class */ (function (_super) {\n __extends(CheckboxRequiredValidator, _super);\n function CheckboxRequiredValidator() {\n return _super !== null && _super.apply(this, arguments) || this;\n }\n /**\n * @description\n * Method that validates whether or not the checkbox has been checked.\n *\n * Returns the validation result if enabled, otherwise null.\n *\n CheckboxRequiredValidator.prototype.validate = function (control) {\n return this.required ?\n Validators.requiredTrue(control) : null;\n });\n CheckboxRequiredValidator = __decorate([\n core.Directive({\n selector:\n 'input[type=checkbox][required][formControlName],input[type=checkbox][required][formControl],input[type=checkbox][required][ngModel]',\n providers: [CHECKBOX_REQUIRED_VALIDATOR],\n host: {\n 'attr.required': 'required ? \"\" : null' }\n })\n ], CheckboxRequiredValidator);\n return\n CheckboxRequiredValidator;\n } (RequiredValidator));\n /**\n * @description\n * Provider which adds\n `EmailValidator` to the `NG_VALIDATORS` multi-provider list.\n *\n var\n EMAIL_VALIDATOR = {\n provide: NG_VALIDATORS,\n useExisting: core.forwardRef(function () {\n return EmailValidator; }),\n multi: true\n };\n /**\n * A directive that adds the `email` validator to\n controls marked with the\n * `email` attribute. The directive is provided with the `NG_VALIDATORS` multi-\n provider list.\n *\n * @see [Form Validation](guide/form-validation)\n *\n * @usageNotes\n *\n *\n ### Adding an email validator\n *\n * The following example shows how to add an email validator to an input\n attached to an ngModel binding.\n *\n *``\n * <input type="email" name="email" ngModel email>\n * <input type="email" name="email" ngModel email="true">\n * <input type="email" name="email"\n ngModel [email]="true">\n *``\n *\n * @publicApi\n * @ngModule FormsModule\n * @ngModule\n ReactiveFormsModule\n *\n var EmailValidator = /** @class */ (function () {\n

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function EmailValidator() {\n    } \n    Object.defineProperty(EmailValidator.prototype, \"email\", {\n
/**\n    * @description\n    * Tracks changes to the email attribute bound to this directive.\n    */\n    set: function (value) {\n        this._enabled = value === \"\" || value === true || value === 'true';\n        if\n        (this._onChange)\n            this._onChange();\n    },\n    enumerable: true,\n    configurable:\n    true\n    });\n    /**\n    * @description\n    * Method that validates whether an email address is valid.\n    * Returns the validation result if enabled, otherwise null.\n    */\n    EmailValidator.prototype.validate =\n    function (control) {\n        return this._enabled ? Validators.email(control) : null;\n    }; \n    /**\n    * @description\n    * Registers a callback function to call when the validator inputs change.\n    * \n    * @param fn The callback function\n    */\n    EmailValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; }; \n    __decorate([\n        core.Input(),\n        __metadata(\"design:type\", Object),\n        __metadata(\"design:paramtypes\",\n        [Object])\n    ], EmailValidator.prototype, \"email\", null);\n    EmailValidator = __decorate([\n        core.Directive({\n            selector: '[email][formControlName],[email][formControl],[email][ngModel]',\n            providers: [EMAIL_VALIDATOR]\n        }),\n        EmailValidator\n    ], EmailValidator);\n    return EmailValidator;\n    ());\n    /**\n    * @description\n    * Provider which adds `MinLengthValidator` to the `NG_VALIDATORS` multi-\n    provider list.\n    */\n    var MIN_LENGTH_VALIDATOR = {\n        provide: NG_VALIDATORS,\n        useExisting: core.forwardRef(function () { return MinLengthValidator; }),\n        multi: true\n    }; \n    /**\n    * A directive that adds minimum length validation to controls marked with the\n    * `minlength`\n    attribute. The directive is provided with the `NG_VALIDATORS` multi-provider list.\n    */\n    * @see [Form\n    Validation](guide/form-validation)\n    */\n    * @usageNotes\n    * ### Adding a minimum length\n    validator\n    * The following example shows how to add a minimum length validator to an input attached to\n    an\n    * ngModel binding.\n    * \n    * ``html\n    * <input name=\"firstName\" ngModel minlength=\"4\">\n    * \n    * ``\n    * \n    * @ngModule ReactiveFormsModule\n    * @ngModule FormsModule\n    * @publicApi\n    */\n    var MinLengthValidator = /** @class */ (function () {\n        function MinLengthValidator() {\n        }\n        /**\n        * @description\n        * A lifecycle method called when the directive's inputs change. For internal use\n        * only.\n        * \n        * @param changes A object of key/value pairs for the\n        set of changed inputs.\n        */\n        MinLengthValidator.prototype.ngOnChanges = function (changes) {\n            if ('minlength' in changes) {\n                this._createValidator();\n                if (this._onChange)\n                this._onChange();\n            }\n        }; \n        /**\n        * @description\n        * Method that validates whether the\n        value meets a minimum length\n        * requirement. Returns the validation result if enabled, otherwise null.\n        */\n        MinLengthValidator.prototype.validate = function (control) {\n            return this.minlength === null ? null :\n            this._validator(control);\n        }; \n        /**\n        * @description\n        * Registers a callback function to call when\n        the validator inputs change.\n        * \n        * @param fn The callback function\n        */\n        MinLengthValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; }; \n        MinLengthValidator.prototype._createValidator\n        = function () {\n            this._validator = Validators.minLength(typeof this.minlength === 'number' ? this.minlength\n            : parseInt(this.minlength, 10));\n        }; \n        __decorate([\n            core.Input(),\n            __metadata(\"design:type\", Object)\n        ], MinLengthValidator.prototype, \"minlength\", void 0);\n        MinLengthValidator = __decorate([\n            core.Directive({\n                selector:\n                '[minlength][formControlName],[minlength][formControl],[minlength][ngModel]',\n                providers:\n                [MIN_LENGTH_VALIDATOR],\n                host: { '[attr.minlength]': 'minlength ? minlength : null' }\n            }),\n            MinLengthValidator\n        ], MinLengthValidator);\n        return MinLengthValidator;\n    ());\n    /**\n    * @description\n    * Provider\n    which adds `MaxLengthValidator` to the `NG_VALIDATORS` multi-provider list.\n    */\n    var\n    MAX_LENGTH_VALIDATOR = {\n        provide: NG_VALIDATORS,\n        useExisting:\n        core.forwardRef(function\n        ( ) { return MaxLengthValidator; }),\n        multi: true\n    }; \n    /**\n    * A directive that adds max length\n    validation to controls marked with the\n    * `maxlength` attribute. The directive is provided with the\n    `NG_VALIDATORS` multi-provider list.\n    */\n    * @see [Form Validation](guide/form-validation)\n    */\n    *

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@usageNotes\n * \n * ### Adding a maximum length validator\n * \n * The following example shows how
to add a maximum length validator to an input attached to an\n * ngModel binding.\n * \n * ```html\n *
<input name="firstName" ngModel maxLength="25">\n * ```\n * \n * @ngModule
ReactiveFormsModule\n * @ngModule FormsModule\n * @publicApi\n * \n var MaxLengthValidator =
/** @class */ (function () {\n * function MaxLengthValidator() {\n * }\n * /**\n * @description\n
* A lifecycle method called when the directive's inputs change. For internal use\n * only.\n
* \n * @param changes A object of key/value pairs for the set of changed inputs.\n * \n
MaxLengthValidator.prototype.ngOnChanges = function (changes) {\n * if ('maxLength' in changes) {\n
this._createValidator();\n * if (this._onChange)\n * this._onChange();\n * }\n * };\n
/**\n * @description\n * Method that validates whether the value exceeds\n * the maximum length
requirement.\n * \n * \n * MaxLengthValidator.prototype.validate = function (control) {\n * return
this.maxLength != null ? this._validator(control) : null;\n * };\n * /**\n * @description\n * Registers a
callback function to call when the validator inputs change.\n * \n * @param fn The callback function\n
* \n * \n * MaxLengthValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; };\n
MaxLengthValidator.prototype._createValidator
= function () {\n * this._validator = Validators.maxLength(typeof this.maxLength === 'number' ?
this.maxLength : parseInt(this.maxLength, 10));\n * };\n * __decorate([\n * core.Input(),\n
__metadata({"design:type": Object)\n * ], MaxLengthValidator.prototype, "maxLength", void 0);\n
MaxLengthValidator = __decorate([\n * core.Directive({\n * selector:
'[maxLength][formControlName],[maxLength][formControl],[maxLength][ngModel]',\n * providers:
[MAX_LENGTH_VALIDATOR],\n * host: { '[attr.maxLength]': 'maxLength ? maxLength : null' }\n
})\n * ], MaxLengthValidator);\n * return MaxLengthValidator;\n * }());\n * /**\n * @description\n *
Provider which adds `PatternValidator` to the `NG_VALIDATORS` multi-provider list.\n * \n * \n * var
PATTERN_VALIDATOR = {\n * provide: NG_VALIDATORS,\n * useExisting: core.forwardRef(function
() { return PatternValidator; }),\n * multi: true\n * };\n * /**\n * @description\n * A directive that adds
regex pattern validation to controls marked with the\n * `pattern` attribute. The regex must match the entire
control value.\n * \n * The directive is provided with the `NG_VALIDATORS` multi-provider list.\n * \n * @see
[Form Validation](guide/form-validation)\n * \n * @usageNotes\n * \n * ### Adding a pattern validator\n
* \n * The following example shows how to add a pattern validator to an input attached to an\n * ngModel
binding.\n * \n * ```html\n * <input name="firstName" ngModel pattern="[a-zA-Z]*">\n * ```\n * \n *
* @ngModule ReactiveFormsModule\n * @ngModule FormsModule\n * @publicApi\n * \n var
PatternValidator = /** @class */ (function () {\n * function PatternValidator() {\n * }\n * /**\n *
* @description\n * A lifecycle method called when the
directive's inputs change. For internal use\n * only.\n * \n * @param changes A object of key/value
pairs for the set of changed inputs.\n * \n * \n * PatternValidator.prototype.ngOnChanges = function (changes)
{\n * if ('pattern' in changes) {\n * this._createValidator();\n * if (this._onChange)\n
this._onChange();\n * }\n * };\n * /**\n * @description\n * Method that validates whether the
value matches the\n * the pattern requirement.\n * \n * \n * PatternValidator.prototype.validate = function
(control) { return this._validator(control); };\n * /**\n * @description\n * Registers a callback function
to call when the validator inputs change.\n * \n * @param fn The callback function\n * \n * \n
PatternValidator.prototype.registerOnValidatorChange = function (fn) { this._onChange = fn; };\n
PatternValidator.prototype._createValidator
= function () { this._validator = Validators.pattern(this.pattern); };\n * __decorate([\n * core.Input(),\n
__metadata({"design:type": Object)\n * ], PatternValidator.prototype, "pattern", void 0);\n * \n * \n * PatternValidator
= __decorate([\n * core.Directive({\n * selector:
'[pattern][formControlName],[pattern][formControl],[pattern][ngModel]',\n * providers:
[PATTERN_VALIDATOR],\n * host: { '[attr.pattern]': 'pattern ? pattern : null' }\n
})\n * ], PatternValidator);\n * return PatternValidator;\n * }());\n * \n * \n * /**\n * @license\n *
Copyright Google Inc. All

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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 SHARED_FORM_DIRECTIVES = [\n
NgNoValidate,\n  NgSelectOption,\n  NgSelectMultipleOption,\n
  DefaultValueAccessor,\n  NumberValueAccessor,\n  RangeValueAccessor,\n
CheckboxControlValueAccessor,\n  SelectControlValueAccessor,\n  SelectMultipleControlValueAccessor,\n
  RadioControlValueAccessor,\n  NgControlStatus,\n  NgControlStatusGroup,\n  RequiredValidator,\n
  MinLengthValidator,\n  MaxLengthValidator,\n  PatternValidator,\n  CheckboxRequiredValidator,\n
  EmailValidator,\n ];\n  var TEMPLATE_DRIVEN_DIRECTIVES = [NgModel, NgModelGroup, NgForm];\n
  var REACTIVE_DRIVEN_DIRECTIVES = [FormControlDirective, FormGroupDirective, FormControlName,
  FormGroupName, FormArrayName];\n  /**\n  * Internal module used for sharing directives between
FormsModule and ReactiveFormsModule\n  *\n  var InternalFormsSharedModule = /** @class */ (function ()
{\n  function InternalFormsSharedModule() {\n  }\n  InternalFormsSharedModule = __decorate([\n
  core.NgModule({\n
    declarations: SHARED_FORM_DIRECTIVES,\n    exports: SHARED_FORM_DIRECTIVES,\n
  })\n  ], InternalFormsSharedModule);\n  return InternalFormsSharedModule;\n  }());\n  /**\n  *
@license\n  * Copyright Google Inc. All Rights Reserved.\n  *\n  * Use of this source code is governed by an
MIT-style license that can be\n  * found in the LICENSE file at https://angular.io/license\n  *\n  function
isAbstractControlOptions(options) {\n  return options.asyncValidators !== undefined ||\n
options.validators !== undefined ||\n  options.updateOn !== undefined;\n  }\n  /**\n  * @description\n
* Creates an `AbstractControl` from a user-specified configuration.\n  *\n  * The `FormBuilder` provides
syntactic sugar that shortens creating instances of a `FormControl`,\n  * `FormGroup`, or `FormArray`. It reduces
the amount of boilerplate needed to build complex\n  *
forms.\n  *\n  * @see [Reactive Forms Guide](/guide/reactive-forms)\n  *\n  * @publicApi\n  *\n  var
FormBuilder = /** @class */ (function () {\n  function FormBuilder() {\n  }\n  /**\n  *
@description\n  * Construct a new `FormGroup` instance.\n  *\n  * @param controlsConfig A
collection of child controls. The key for each child is the name\n  * under which it is registered.\n  *\n
* @param options Configuration options object for the `FormGroup`. The object can\n  * have two shapes:\n
*\n  * 1) `AbstractControlOptions` object (preferred), which consists of:\n  * * `validators`: A
synchronous validator function, or an array of validator functions\n  * * `asyncValidators`: A single async
validator or array of async validator functions\n  * * `updateOn`: The event upon which the control should be
updated (options: 'change' | 'blur' |\n  * * submit')\n
*\n  * 2) Legacy configuration object, which consists of:\n  * * `validator`: A synchronous validator
function, or an array of validator functions\n  * * `asyncValidator`: A single async validator or array of async
validator functions\n  *\n  *\n  FormBuilder.prototype.group = function (controlsConfig, options) {\n
  if (options === void 0) { options = null; }\n  var controls = this._reduceControls(controlsConfig);\n
var validators = null;\n  var asyncValidators = null;\n  var updateOn = undefined;\n  if (options !==
null) {\n  if (isAbstractControlOptions(options)) {\n  // `options` are `AbstractControlOptions`\n
validators = options.validators !== null ? options.validators : null;\n  asyncValidators =
options.asyncValidators !== null ? options.asyncValidators : null;\n  updateOn = options.updateOn
!== null ? options.updateOn : undefined;\n  }\n  else {\n  // `options` are legacy form
group options\n  validators = options['validator'] !== null ? options['validator'] : null;\n
asyncValidators = options['asyncValidator'] !== null ? options['asyncValidator'] : null;\n  }\n  }\n
return new FormGroup(controls, { asyncValidators: asyncValidators, updateOn: updateOn, validators: validators
});\n  };\n  /**\n  * @description\n  * Construct a new `FormControl` with the given state, validators
and options.\n  *\n  * @param formState Initializes the control with an initial state value, or\n  * with
an object that contains both a value and a disabled status.\n  *\n  * @param validatorOrOpts A synchronous
validator function, or an array of\n  * such functions, or an `AbstractControlOptions` object that contains\n

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    * validation functions and a validation trigger.\n      *\n      * @param asyncValidator A single async
validator or array of async validator\n      * functions.\n      *\n      * @usageNotes\n      *\n      * ###
Initialize a control as disabled\n      *\n      * The following example returns a control with an initial value in a
disabled state.\n      *\n      * <code-example path="forms/ts/formBuilder/form_builder_example.ts"
region="disabled-control">\n      * </code-example>\n      *\n      FormBuilder.prototype.control = function
(formState, validatorOrOpts, asyncValidator) {\n      return new FormControl(formState, validatorOrOpts,
asyncValidator);\n      };\n      /**\n      * Constructs a new `FormArray` from the given array of
configurations,\n      * validators and options.\n      *\n      * @param controlsConfig An array of child controls
or control configs. Each\n      * child control is given
an index when it is registered.\n      *\n      * @param validatorOrOpts A synchronous validator function, or an
array of\n      * such functions, or an `AbstractControlOptions` object that contains\n      * validation functions
and a validation trigger.\n      *\n      * @param asyncValidator A single async validator or array of async
validator\n      * functions.\n      *\n      FormBuilder.prototype.array = function (controlsConfig,
validatorOrOpts, asyncValidator) {\n      var _this = this;\n      var controls = controlsConfig.map(function (c)
{ return _this._createControl(c); });\n      return new FormArray(controls, validatorOrOpts, asyncValidator);\n
};\n      /** @internal */\n      FormBuilder.prototype._reduceControls = function (controlsConfig) {\n      var
_this = this;\n      var controls = {};\n      Object.keys(controlsConfig).forEach(function (controlName) {\n
controls[controlName]
= _this._createControl(controlsConfig[controlName]);\n      });\n      return controls;\n      };\n      /**
@internal */\n      FormBuilder.prototype._createControl = function (controlConfig) {\n      if (controlConfig
instanceof FormControl || controlConfig instanceof FormGroup ||\n      controlConfig instanceof FormArray)
{\n      return controlConfig;\n      }\n      else if (Array.isArray(controlConfig)) {\n      var value
= controlConfig[0];\n      var validator = controlConfig.length > 1 ? controlConfig[1] : null;\n      var
asyncValidator = controlConfig.length > 2 ? controlConfig[2] : null;\n      return this.control(value, validator,
asyncValidator);\n      }\n      else {\n      return this.control(controlConfig);\n      }\n      };\n
FormBuilder = __decorate([\n      core.Injectable()\n      ], FormBuilder);\n      return FormBuilder;\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      /**\n      * @publicApi\n      */\n      var VERSION = new core.Version('9.0.7');\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      * Exports the
required providers and directives for template-driven forms,\n      * making them available for import by NgModules
that import this module.\n      *\n      * @see [Forms Guide](/guide/forms)\n      *\n      * @publicApi\n      */\n      var
FormsModule = /** @class */ (function () {\n      function FormsModule() {\n      }\n      FormsModule =
__decorate([\n      core.NgModule({\n
declarations: TEMPLATE_DRIVEN_DIRECTIVES,\n      providers: [RadioControlRegistry],\n
exports: [InternalFormsSharedModule, TEMPLATE_DRIVEN_DIRECTIVES]\n      })\n      ],
FormsModule);\n      return FormsModule;\n      }());\n      /**\n      * Exports the required infrastructure and directives
for reactive forms,\n      * making them available for import by NgModules that import this module.\n      *\n      * @see
[Forms](guide/reactive-forms)\n      *\n      * @see [Reactive Forms Guide](/guide/reactive-forms)\n      *\n      *
@publicApi\n      */\n      var ReactiveFormsModule = /** @class */ (function () {\n      function
ReactiveFormsModule() {\n      }\n      ReactiveFormsModule_1 = ReactiveFormsModule;\n      /**\n      *
@description\n      * Provides options for configuring the reactive forms module.\n      *\n      * @param opts
An object of configuration options\n      * * `warnOnNgModelWithFormControl` Configures when to emit
a warning when an `ngModel`\n      * binding is used with reactive form directives.\n      */\n
ReactiveFormsModule.withConfig = function (opts) {\n      return {\n      ngModule:
ReactiveFormsModule_1,\n      providers: [{\n      provide:
NG_MODEL_WITH_FORM_CONTROL_WARNING,\n      useValue:

```

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opts.warnOnNgModelWithFormControl\n          }\n        }\n      }\n      var ReactiveFormsModule_1;\n      ReactiveFormsModule = ReactiveFormsModule_1 = __decorate([\n        core.NgModule({\n          declarations: [REACTIVE_DRIVEN_DIRECTIVES],\n          providers: [FormBuilder,\n            RadioControlRegistry],\n          exports: [InternalFormsSharedModule, REACTIVE_DRIVEN_DIRECTIVES]\n        })\n      ], ReactiveFormsModule);\n      return ReactiveFormsModule;\n    }());\n\n    /**\n     * @license\n     * Copyright Google Inc. All Rights Reserved.\n     * Use of this\n     * source code is governed by an MIT-style license that can be\n     * found in the LICENSE file at\n     * https://angular.io/license\n     *\n     * @license\n     * Copyright Google Inc. All Rights Reserved.\n     * Use of this\n     * source code is governed by an MIT-style license that can be\n     * found in the LICENSE file at\n     * https://angular.io/license\n     *\n     * @license\n     * Copyright Google Inc. All Rights Reserved.\n     * Use of this\n     * 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     * @license\n     * Copyright Google Inc. All Rights Reserved.\n     * Use of this\n     * 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     * Generated bundle index. Do not edit.\n     */\n\n    exports.AbstractControl = AbstractControl;\n    exports.AbstractControlDirective = AbstractControlDirective;\n    exports.AbstractFormGroupDirective = AbstractFormGroupDirective;\n    exports.COMPOSITION_BUFFER_MODE = COMPOSITION_BUFFER_MODE;\n\n    exports.CheckboxControlValueAccessor = CheckboxControlValueAccessor;\n    exports.CheckboxRequiredValidator = CheckboxRequiredValidator;\n    exports.ControlContainer = ControlContainer;\n    exports.DefaultValueAccessor = DefaultValueAccessor;\n    exports.EmailValidator = EmailValidator;\n    exports.FormArray = FormArray;\n    exports.FormArrayName = FormArrayName;\n    exports.FormBuilder = FormBuilder;\n    exports.FormControl = FormControl;\n    exports.FormControlDirective = FormControlDirective;\n    exports.FormControlName = FormControlName;\n    exports.FormGroup = FormGroup;\n    exports.FormGroupDirective = FormGroupDirective;\n    exports.FormGroupName = FormGroupName;\n    exports.FormsModule = FormsModule;\n    exports.MaxLengthValidator = MaxLengthValidator;\n    exports.MinLengthValidator = MinLengthValidator;\n    exports.NG_ASYNC_VALIDATORS = NG_ASYNC_VALIDATORS;\n    exports.NG_VALIDATORS = NG_VALIDATORS;\n    exports.NG_VALUE_ACCESSOR = NG_VALUE_ACCESSOR;\n\n    exports.NgControl = NgControl;\n    exports.NgControlStatus = NgControlStatus;\n    exports.NgControlStatusGroup = NgControlStatusGroup;\n    exports.NgForm = NgForm;\n    exports.NgModel = NgModel;\n    exports.NgModelGroup = NgModelGroup;\n    exports.NgSelectOption = NgSelectOption;\n    exports.NumberValueAccessor = NumberValueAccessor;\n    exports.PatternValidator = PatternValidator;\n    exports.RadioControlValueAccessor = RadioControlValueAccessor;\n    exports.RangeValueAccessor = RangeValueAccessor;\n    exports.ReactiveFormsModule = ReactiveFormsModule;\n    exports.RequiredValidator = RequiredValidator;\n    exports.SelectControlValueAccessor = SelectControlValueAccessor;\n    exports.SelectMultipleControlValueAccessor = SelectMultipleControlValueAccessor;\n    exports.VERSION = VERSION;\n    exports.Validators = Validators;\n    exports.InternalFormsSharedModule = InternalFormsSharedModule;\n    exports.NgNoValidate = NgNoValidate;\n    exports.NgSelectMultipleOption = NgSelectMultipleOption;\n    exports.angular_packages_forms_forms_a = SHARED_FORM_DIRECTIVES;\n    exports.angular_packages_forms_forms_b = TEMPLATE_DRIVEN_DIRECTIVES;\n    exports.angular_packages_forms_forms_ba = CHECKBOX_REQUIRED_VALIDATOR;\n    exports.angular_packages_forms_forms_bb = EMAIL_VALIDATOR;\n    exports.angular_packages_forms_forms_bc = MIN_LENGTH_VALIDATOR;\n    exports.angular_packages_forms_forms_bd = MAX_LENGTH_VALIDATOR;\n    exports.angular_packages_forms_forms_be = PATTERN_VALIDATOR;\n    exports.angular_packages_forms_forms_c = REACTIVE_DRIVEN_DIRECTIVES;\n    exports.angular_packages_forms_forms_d = InternalFormsSharedModule;\n    exports.angular_packages_forms_forms_e = CHECKBOX_VALUE_ACCESSOR;\n    exports.angular_packages_forms_forms_f = DEFAULT_VALUE_ACCESSOR;\n
```





```

as a bridge between the Angular forms API and a native element in the DOM. Implement this interface
to create a custom form control directive that integrates with Angular forms. @see
DefaultValueAccessor @publicApi export interface ControlValueAccessor {
  @description Writes a new value to the element. This method is called by the forms API to write to
  the view when programmatic changes from model to view are requested. @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;
  @description 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 model when
  values propagate from the view to the model. When implementing the `registerOnChange` method in your
  own value accessor, save the given function so your class calls it at the appropriate time.
  @usageNotes ### Store the change function The following example stores the provided function as
  an internal method.
  ts registerOnChange(fn: (_: any) => void): void { this._onChange =
  fn; }
  @description When the value changes in the UI, call the registered function to allow the forms
  API to update itself.
  ts host: { '(change)': '_onChange($event.target.value)' }
  @param fn The callback function to register registerOnChange(fn: any): void;
  @description Registers a callback function is called by the
  forms API on initialization to update the form model on blur. 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".
  @usageNotes ### Store the callback function
  The following example stores the provided function as an internal method.
  ts registerOnTouched(fn: any): void { this._onTouched = fn; }
  @description On blur (or equivalent),
  your class should call the registered function to allow the forms API to update itself.
  ts host:
  { '(blur)': '_onTouched()' }
  @param fn The callback function to register registerOnTouched(fn: any): void;
  @description Function that is called by the forms API when
  the control status changes to or from 'DISABLED'. Depending on the status,
  it enables or disables the appropriate DOM element.
  @usageNotes The following is an example
  of writing the disabled property to a native DOM element.
  ts setDisabledState(isDisabled:
  boolean): void { this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled); }
  @param isDisabled The disabled status to set on the element setDisabledState?(isDisabled:
  boolean): void;
  Used to provide a `ControlValueAccessor` for form controls. See
  `DefaultValueAccessor` for how to implement one.
  @publicApi export const
  NG_VALUE_ACCESSOR = new InjectionToken<ControlValueAccessor>('NgValueAccessor');
  @license Copyright Google Inc. All Rights Reserved. Use of this source code is governed by an MIT-
  style license that can be found in the LICENSE file at https://angular.io/license
  import { Directive,
  ElementRef, Renderer2, forwardRef }
  from '@angular/core';
  import { ControlValueAccessor, NG_VALUE_ACCESSOR } from
  './control_value_accessor';
  export const CHECKBOX_VALUE_ACCESSOR: any = { provide:
  NG_VALUE_ACCESSOR, useExisting: forwardRef(() => CheckboxControlValueAccessor), multi:
  true };
  @description A `ControlValueAccessor` for writing a value and listening to changes on a
  checkbox input element.
  @usageNotes ### Using a checkbox with a reactive form. The
  following example shows how to use a checkbox with a reactive form.
  ts const
  rememberLoginControl = new FormControl();
  <input type="checkbox"
  [formControl]="rememberLoginControl">
  @ngModule ReactiveFormsModule
  @ngModule
  FormsModule
  @publicApi @Directive({ selector:
  'input[type=checkbox][formControlName],input[type=checkbox][formControl],input[type=checkbox][ngModel]',
  host: {'(change)': 'onChange($event.target.checked)',

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(blur)': 'onTouched()}',\n providers: [CHECKBOX_VALUE_ACCESSOR]\n})\nexport class
CheckboxControlValueAccessor implements ControlValueAccessor {\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 constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {\n\n
/**\n * Sets the "checked" property on the input element.\n */\n * @param value The checked value\n */\n
writeValue(value: any): void {\n this._renderer.setProperty(this._elementRef.nativeElement, 'checked', value);\n
}\n\n /**\n * @description\n * Registers a function called when the control value changes.\n */\n * @param fn
The callback function\n */\n registerOnChange(fn: (_: any) => {}): void { this.onChange = fn; }\n\n
/**\n * @description\n * Registers a function called when the control is touched.\n */\n * @param fn The
callback function\n */\n registerOnTouched(fn: () => {}): void { this.onTouched = fn; }\n\n /**\n * Sets the
"disabled" property on the input element.\n */\n * @param isDisabled The disabled value\n */\n
setDisabledState(isDisabled: boolean): void {\n this._renderer.setProperty(this._elementRef.nativeElement,
'disabled', isDisabled);\n }\n}\n"/**\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 {ÉµgetDOM as getDOM} from '@angular/common';\nimport {Directive,
ElementRef, Inject, InjectionToken, Optional, Renderer2, forwardRef} from '@angular/core';\nimport
{ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';\n\nexport const
DEFAULT_VALUE_ACCESSOR: any = {\n provide: NG_VALUE_ACCESSOR,\n
useExisting: forwardRef(() => DefaultValueAccessor),\n multi: true\n};\n\n/**\n * We must check whether the
agent is Android because composition events\n * behave differently between iOS and Android.\n */\nfunction
_isAndroid(): boolean {\n const userAgent = getDOM() ? getDOM().getUserAgent() : '';\n return /android
(\\d+)/.test(userAgent.toLowerCase());\n}\n\n/**\n * @description\n * Provide this token to control if form
directives buffer IME input until\n * the "compositionend" event occurs.\n */\n * @publicApi\n */\nexport const
COMPOSITION_BUFFER_MODE = new InjectionToken<boolean>('CompositionEventMode');\n\n/**\n *
@description\n * The default `ControlValueAccessor` for writing a value and listening to changes on input\n *
elements. The accessor is used by the `FormControlDirective`, `FormControlName`, and\n * `NgModel`
directives.\n */\n * @usageNotes\n */\n * ### Using the default value accessor\n */\n * The following example shows
how to use an input element that
activates the default value accessor\n * (in this case, a text field).\n */\n * ```ts\n * const firstNameControl = new
FormControl();\n * ```\n * ```\n * <input type="text" [formControl]=\n * "firstNameControl">\n * ```\n * ```\n * @ngModule ReactiveFormsModule\n * @ngModule FormsModule\n * @publicApi\n */\n * @Directive({\n
selector:\n
'input:not([type=checkbox])[formControlName],textare[formControlName],input:not([type=checkbox])[formContr
ol],textare[formControl],input:not([type=checkbox])[ngModel],textare[ngModel],[ngDefaultControl]',\n //
TODO: vsavkin replace the above selector with the one below it once\n //
https://github.com/angular/angular/issues/3011 is implemented\n // selector:\n
'[ngModel],[formControl],[formControlName]',\n host: {\n '(input)':
'$any(this)._handleInput($event.target.value)',\n '(blur)': 'onTouched()',\n '(compositionstart)':
'$any(this)._compositionStart()',\n '(compositionend)': '$any(this)._compositionEnd($event.target.value)'\n },\n
providers: [DEFAULT_VALUE_ACCESSOR]\n})\n\nexport class DefaultValueAccessor implements
ControlValueAccessor {\n /**\n * @description\n * The registered callback function called when an input 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 * Whether the user is creating a composition string (IME events).\n */\n private _composing = false;\n\n
constructor(\n private _renderer: Renderer2, private _elementRef: ElementRef,\n @Optional()
@Inject(COMPOSITION_BUFFER_MODE) private _compositionMode: boolean) {\n if (this._compositionMode
== null) {\n this._compositionMode = !_isAndroid();\n }\n }\n\n /**\n * Sets the "value" property on the

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input element.\n * \n * @param value The checked value\n * \n writeValue(value: any): void {\n  const
normalizedValue = value == null
? " : value;\n  this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);\n } \n\n /**\n * @description\n * Registers a function called when the control value changes.\n * \n * @param fn The callback
function\n * \n registerOnChange(fn: (_: any) => void): void { this.onChange = fn; }\n\n /**\n * @description\n * Registers a function called when the control is touched.\n * \n * @param fn The callback function\n * \n
registerOnTouched(fn: () => void): void { this.onTouched = fn; }\n\n /**\n * Sets the \"disabled\" property on the
input element.\n * \n * @param isDisabled The disabled value\n * \n setDisabledState(isDisabled: boolean):
void {\n  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\n } \n\n /** @internal
*\n * \n _handleInput(value: any): void {\n  if (!this._compositionMode || (this._compositionMode &&
!this._composing)) {\n    this.onChange(value);\n  }\n } \n\n /** @internal
*\n * \n _compositionStart(): void { this._composing = true; }\n\n /** @internal *\n * \n _compositionEnd(value: any):
void {\n  this._composing = false;\n  this._compositionMode && this.onChange(value);\n }\n\n\n", /**\n *
@license\n * Copyright Google Inc. All Rights Reserved.\n * \n * Use of this source code is governed by an MIT-
style license that can be\n * found in the LICENSE file at https://angular.io/license\n * \n\nimport { Observable }
from 'rxjs';\nimport { AbstractControl } from './model';\nimport { ValidationErrors } from './validators';\n\n/**\n *
@description\n * Base class for control directives.\n * \n * This class is only used internally in the
`ReactiveFormsModule` and the `FormsModule`.\n * \n * @publicApi\n * \n\nexport abstract class
AbstractControlDirective {\n  /**\n * @description\n * A reference to the underlying control.\n * \n * @returns
the control that backs this directive. Most properties fall through to that instance.\n * \n abstract get control():
AbstractControl|null;\n\n  /**\n * @description\n * Reports the value of the control if it is present, otherwise null.\n * \n get value(): any
{ return this.control ? this.control.value : null; }\n\n /**\n * @description\n * Reports whether the control is
valid. A control is considered valid if no\n * validation errors exist with the current value.\n * If the control is not
present, null is returned.\n * \n get valid(): boolean|null { return this.control ? this.control.valid : null; }\n\n /**\n
* @description\n * Reports whether the control is invalid, meaning that an error exists in the input value.\n * If
the control is not present, null is returned.\n * \n get invalid(): boolean|null { return this.control ?
this.control.invalid : null; }\n\n /**\n * @description\n * Reports whether a control is pending, meaning that that
async validation is occurring and\n * errors are not yet available for the input value. If the control is not present,
null is\n * \n\n * returned.\n * \n get pending(): boolean|null { return this.control ? this.control.pending : null; }\n\n /**\n
* @description\n * Reports whether the control is disabled, meaning that the control is disabled\n * in the UI and is
exempt from validation checks and excluded from aggregate\n * values of ancestor controls. If the control is not
present, null is returned.\n * \n get disabled(): boolean|null { return this.control ? this.control.disabled : null; }\n\n
/**\n * @description\n * Reports whether the control is enabled, meaning that the control is included in
ancestor\n * calculations of validity or value. If the control is not present, null is returned.\n * \n get enabled():
boolean|null { return this.control ? this.control.enabled : null; }\n\n /**\n * @description\n * Reports the control's
validation errors. If the control is not present, null is returned.\n * \n get errors(): ValidationErrors|null { return
this.control ? this.control.errors :
null; }\n\n /**\n * @description\n * Reports whether the control is pristine, meaning that the user has not yet
changed\n * the value in the UI. If the control is not present, null is returned.\n * \n get pristine(): boolean|null {
return this.control ? this.control.pristine : null; }\n\n /**\n * @description\n * Reports whether the control is
dirty, meaning that the user has changed\n * the value in the UI. If the control is not present, null is returned.\n
*\n * \n get dirty(): boolean|null { return this.control ? this.control.dirty : null; }\n\n /**\n * @description\n
* Reports whether the control is touched, meaning that the user has triggered\n * a `blur` event on it. If the control is
not present, null is returned.\n * \n get touched(): boolean|null { return this.control ? this.control.touched : null;
}\n\n /**\n * @description\n * Reports the validation status of the control. Possible values include:\n * \n
'VALID', 'INVALID', 'DISABLED', and 'PENDING'.\n

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    * If the control is not present, null is returned.\n
    */\n
    get status(): string|null { return this.control ?
this.control.status : null; }\n\n /**\n
 * @description\n
 * Reports whether the control is untouched, meaning that
the user has not yet triggered\n
 * a `blur` event on it. If the control is not present, null is returned.\n
    */\n
    get
untouched(): boolean|null { return this.control ? this.control.untouched : null; }\n\n /**\n
 * @description\n
 * Returns a multicasting observable that emits a validation status whenever it is\n
 * calculated for the control. If the
control is not present, null is returned.\n
    */\n
    get statusChanges(): Observable<any>|null {\n
return this.control ?
this.control.statusChanges : null; }\n\n /**\n
 * @description\n
 * Returns a multicasting observable of value
changes for the control that emits every time the\n
 * value of the control changes in the UI or programmatically.\n
    * If the control is not present, null is
returned.\n
    */\n
    get valueChanges(): Observable<any>|null {\n
return this.control ? this.control.valueChanges :
null; }\n\n /**\n
 * @description\n
 * Returns an array that represents the path from the top-level form to this
control.\n
 * Each index is the string name of the control on that level.\n
    */\n
    get path(): string[]|null { return null;
}\n\n /**\n
 * @description\n
 * Resets the control with the provided value if the control is present.\n
    */\n
    reset(value: any = undefined): void {\n
if (this.control) this.control.reset(value); }\n\n /**\n
 * @description\n
 * Reports whether the control with the given path has the error specified.\n
    * \n
    * @param errorCode The code of
the error to check\n
    * @param path A list of control names that designates how to move from the current control\n
 * to the control that should be queried for errors.\n
    * \n
    * @usageNotes\n
    * For example, for the following
`FormGroup`:\n
    * \n
    * ```\n
    * form = new FormGroup({\n
    *   address: new FormGroup({ street: new FormControl() })\n
    * });\n
    * ```\n
    * \n
    * The path to the 'street'
control from the root form would be 'address' -> 'street'.\n
    * \n
    * It can be provided to this method in one of two
formats:\n
    * \n
    * 1. An array of string control names, e.g. `['address', 'street']`\n
    * 1. A period-delimited list of
control names in one string, e.g. `address.street`\n
    * \n
    * If no path is given, this method checks for the error on
the current control.\n
    * \n
    * @returns whether the given error is present in the control at the given path.\n
    * \n
    * If the control is not present, false is returned.\n
    */\n
    hasError(errorCode: string, path?:
Array<string|number>|string): boolean {\n
return this.control ? this.control.hasError(errorCode, path) : false; }\n
}\n\n /**\n
 * @description\n
 * Reports error data for the control with the given path.\n
    * \n
    * @param
errorCode The code of the error to check\n
    * @param path A
list of control names that designates how to move from the current control\n
 * to the control that should be queried
for errors.\n
    * \n
    * @usageNotes\n
    * For example, for the following `FormGroup`:\n
    * \n
    * ```\n
    * form = new
FormGroup({\n
    *   address: new FormGroup({ street: new FormControl() })\n
    * });\n
    * ```\n
    * \n
    * The path to
the 'street' control from the root form would be 'address' -> 'street'.\n
    * \n
    * It can be provided to this method in one
of two formats:\n
    * \n
    * 1. An array of string control names, e.g. `['address', 'street']`\n
    * 1. A period-delimited list
of control names in one string, e.g. `address.street`\n
    * \n
    * @returns error data for that particular error. If the
control or error is not present,\n
    * null is returned.\n
    */\n
    getError(errorCode: string, path?:
Array<string|number>|string): any {\n
return this.control ? this.control.getError(errorCode, path) : null; }\n
}\n\n", "/**\n
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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 { AbstractControlDirective } from
'./abstract_control_directive';\n\nimport { Form } from './form_interface';\n\n\n/**\n
 * @description\n
 * A base class
for directives that contain multiple registered instances of `NgControl`.\n
 * Only used by the forms module.\n
    * \n
    * @publicApi\n
    * \n\nexport abstract class ControlContainer extends AbstractControlDirective {\n\n /**\n
 * @description\n
 * The name for the control\n
    * \n
    * // TODO(issue/24571): remove '!'\n
    name !: string | number |
null; }\n\n /**\n
 * @description\n
 * The top-level form directive for the control.\n
    */\n
    get formDirective():
Form|null { return null; }\n\n /**\n
 * @description\n
 * The path to this group.\n
    */\n
    get path(): string[]|null {
return null; }\n\n", "/**\n
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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 { AbstractControlDirective } from './abstract_control_directive';\n\nimport
{ ControlContainer } from './control_container';\n\nimport { ControlValueAccessor } from

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./control_value_accessor';\nimport { AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn } from
./validators';\n\nfunction unimplemented(): any { throw new Error('unimplemented'); }\n\n/**\n *
 * @description\n * A base class that all control `FormControl`-based directives extend. It binds a `FormControl`\n *
 * object to a DOM element.\n * \n * @publicApi\n */\nexport abstract class NgControl extends
AbstractControlDirective {\n /**\n * @description\n * The parent form for the control.\n * \n * @internal\n */\n _parent: ControlContainer|null = null;\n /**\n * @description\n * The name for the control\n * \n name:
string|number|null = null;\n /**\n * @description\n
 * The value accessor for the control\n * \n valueAccessor: ControlValueAccessor|null = null;\n /**\n *
 * @description\n * The uncomposed array of synchronous validators for the control\n * \n * @internal\n */\n
_rawValidators: Array<Validator|ValidatorFn> = [];\n /**\n * @description\n * The uncomposed array of
async validators for the control\n * \n * @internal\n */\n _rawAsyncValidators:
Array<AsyncValidator|AsyncValidatorFn> = [];\n /**\n * @description\n * The registered synchronous
validator function for the control\n * \n * @throws An exception that this method is not implemented\n */\n get
validator(): ValidatorFn|null { return <ValidatorFn>unimplemented(); }\n /**\n * @description\n * The
registered async validator function for the control\n * \n * @throws An exception that this method is not
implemented\n */\n get asyncValidator(): AsyncValidatorFn|null { return <AsyncValidatorFn>unimplemented();
}\n /**\n * @description\n
 * The callback method to update the model from the view when requested\n * \n * @param newValue The new
value for the view\n * \n abstract viewToModelUpdate(newValue: any): void;\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, Self } from
'@angular/core';\nimport { AbstractControlDirective } from './abstract_control_directive';\nimport
{ ControlContainer } from './control_container';\nimport { NgControl } from './ng_control';\n\nexport class
AbstractControlStatus {\n private _cd: AbstractControlDirective;\n\n constructor(cd: AbstractControlDirective) {\n
this._cd = cd; }\n\n get ngClassUntouched(): boolean { return this._cd.control ? this._cd.control.untouched : false;
}\n\n get ngClassTouched(): boolean { return this._cd.control ? this._cd.control.touched : false; }\n\n get
ngClassPristine():
boolean { return this._cd.control ? this._cd.control.pristine : false; }\n\n get ngClassDirty(): boolean { return
this._cd.control ? this._cd.control.dirty : false; }\n\n get ngClassValid(): boolean { return this._cd.control ?
this._cd.control.valid : false; }\n\n get ngClassInvalid(): boolean { return this._cd.control ? this._cd.control.invalid :
false; }\n\n get ngClassPending(): boolean { return this._cd.control ? this._cd.control.pending : false; }\n}\n\nexport
const ngControlStatusHost = {\n '[class.ng-untouched]': 'ngClassUntouched',\n '[class.ng-touched]':
'ngClassTouched',\n '[class.ng-pristine]': 'ngClassPristine',\n '[class.ng-dirty]': 'ngClassDirty',\n '[class.ng-valid]':
'ngClassValid',\n '[class.ng-invalid]': 'ngClassInvalid',\n '[class.ng-pending]': 'ngClassPending',\n};\n\n/**\n *
 * @description\n * Directive automatically applied to Angular form controls that sets CSS classes\n * based on
control status.\n * \n * @usageNotes\n * \n * ### CSS classes applied\n * \n * The
following classes are applied as the properties become true:\n * \n * * ng-valid\n * * ng-invalid\n * * ng-pending\n *
* ng-pristine\n * * ng-dirty\n * * ng-untouched\n * * ng-touched\n * \n * @ngModule ReactiveFormsModule\n *
 * @ngModule FormsModule\n * @publicApi\n */\n@Directive({ selector:
'[formControlName],[ngModel],[formControl]', host: ngControlStatusHost})\nexport class NgControlStatus extends
AbstractControlStatus {\n constructor(@Self() cd: NgControl) { super(cd); }\n}\n\n/**\n * @description\n *
Directive automatically applied to Angular form groups that sets CSS classes\n * based on control status
(valid/invalid/dirty/etc).\n * \n * @see `NgControlStatus`\n * \n * @ngModule ReactiveFormsModule\n *
 * @ngModule FormsModule\n * @publicApi\n */\n@Directive({\n selector:\n
'[formGroupName],[formArrayName],[ngModelGroup],[formGroup],form:not([ngNoForm]),[ngForm]',\n host:
ngControlStatusHost\n})\nexport class NgControlStatusGroup extends AbstractControlStatus {\n
constructor(@Self()

```

```

cd: ControlContainer) { super(cd); }
}

/**
 * @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 { InjectionToken, ÉuisObservable as isObservable, ÉuisPromise 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 {
  // 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.
 * @Directive({
  selector:
'customValidator',
  providers: [
    { provide: NG_VALIDATORS, useExisting: CustomValidatorDirective, multi:
true }
  ]
})
 * class CustomValidatorDirective implements Validator {
  validate(control: AbstractControl):
ValidationErrors | null {
    return { 'custom': true };
  }
}
 * @publicApi
 * @next 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
 * @next export const
NG_ASYNC_VALIDATORS =
new
InjectionToken<Array<Validator|Function>>('NgAsyncValidators');

/**
 * A regular expression that matches
valid e-mail
addresses.
 * At a high level, this regexp matches e-mail addresses of the format `local-part@tld`,
where:
 * - `local-part` consists of one or more of the allowed characters (alphanumeric and
some
punctuation symbols).
 * - `local-part` cannot begin or end with a period (`.`).
 * - `local-part` cannot be longer than 64 characters.
 * - `tld` consists of one or more `labels` separated by periods (`.`). For example
`localhost` or
`foo.com`.
 * - A `label` consists of one or more of the allowed characters (alphanumeric, dashes
(`-`) and
periods (`.`)).
 * - A `label` cannot begin or end with a dash (`-`) or a period (`.`).
 * - A `label` cannot be longer than 63 characters.
 * - 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
 * It is based on the
 * [WHATWG version](https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address)
with
some
enhancements to incorporate more RFC rules (such as rules related to domain names and
the
lengths of different
parts of the address). The main differences from the WHATWG version are:
 * - Disallow `local-part` to begin or
end with a period (`.`).
 * - Disallow `local-part` length to exceed 64 characters.
 * - Disallow total address
length to exceed 254 characters.
 * See [this commit](https://github.com/angular/angular.js/commit/f3f5cf72e)
for more details.
 */
const EMAIL_REGEXP =
/^(?=.{1,254}$)(?=.{1,64}@)[a-zA-Z0-9!#$%&'*/+=?^_`{|}~-]+(?:\\.[a-zA-Z0-9!#$%&'*/+=?^_`{|}~-]+)*@[a-zA-Z0-9](?:[a-zA-Z0-9-]{0,61}[a-zA-Z0-9])?(?:\\.[a-zA-Z0-9](?:[a-zA-Z0-9-]{0,61}[a-zA-Z0-9])?)*$;

/**
 * @description
 * Provides a set of built-in
validators that can be used by form controls.
 * A validator is a function that processes a `FormControl` or
collection
of
controls and returns an error map or null. A null map means that validation has passed.
 * @see [Form
Validation](/guide/form-validation)
 * @publicApi
 * @next export class Validators {
  /**
   * @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()`
   * @next static min(min: number): ValidatorFn {
    return (control:

```

```

AbstractControl): ValidationErrors | null => {\n    if (isEmptyInputValue(control.value)
|| isEmptyInputValue(min)) {\n        return null; // don't validate empty values to allow optional controls\n    }\n    const 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/**\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 *
 * @usageNotes\n *
 * ### Validate against
a maximum of 15\n *
 * ```typescript\n * const control = new FormControl(16, Validators.max(15));\n *
 * console.log(control.errors); // {max: {max: 15, actual: 16}}\n *
 * ```\n *
 * @returns A validator function that
returns an error map with the\n *
 * `max` property
if the validation check fails, otherwise `null`.\n *
 * @see `updateValueAndValidity()`\n *
 * /\n static
max(max: number): ValidatorFn {\n    return (control: AbstractControl): ValidationErrors | null => {\n    if
(isEmptyInputValue(control.value) || isEmptyInputValue(max)) {\n        return null; // don't validate empty values to
allow optional controls\n    }\n    const value = parseFloat(control.value);\n    // Controls with NaN values after
parsing should be treated as not having a\n    // maximum, per the HTML forms spec:
https://www.w3.org/TR/html5/forms.html#attr-input-max\n    return !isNaN(value) && value > max ? {'max':
{'max': max, 'actual': control.value}} : null;\n    };\n}\n\n/**\n *
 @description\n * Validator that requires the
control have a non-empty value.\n *
 * @usageNotes\n *
 * ### Validate that the field is non-empty\n *
 * ```typescript\n * const control = new FormControl("", Validators.required);\n *
 * console.log(control.errors);
// {required: true}\n *
 * ```\n *
 * @returns An error map with the `required` property\n *
if the validation
check fails, otherwise `null`.\n *
 * @see `updateValueAndValidity()`\n *
 * /\n static
required(control:
AbstractControl): ValidationErrors|null {\n    return isEmptyInputValue(control.value) ? {'required': true} : null;\n
}\n\n/**\n *
 @description\n * Validator that requires the control's value be true. This validator is commonly\n *
 * used for required checkboxes.\n *
 * @usageNotes\n *
 * ### Validate that the field value is true\n *
 * ```typescript\n * const control = new FormControl("", Validators.requiredTrue);\n *
 * console.log(control.errors); // {required: true}\n *
 * ```\n *
 * @returns An error map that contains the `required`
property\n *
 * set to `true` if the validation check fails, otherwise `null`.\n *
 * @see
`updateValueAndValidity()`\n *
 * /\n static
requiredTrue(control:
AbstractControl): ValidationErrors|null {\n    return control.value === true ? null : {'required': true};\n    }\n\n/**\n *
 @description\n * Validator that requires the control's value pass an email validation test.\n *
 * Tests the
value using a [regular expression](https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Guide/Regular_Expressions)\n *
 * pattern suitable for common usecases. The pattern is
based on the definition of a valid email\n *
 * address in the [WHATWG HTML
specification](https://html.spec.whatwg.org/multipage/input.html#valid-e-mail-address)\n *
 * with some
enhancements to incorporate more RFC rules (such as rules related to domain names and\n *
 * the lengths of
different parts of the address).\n *
 * The differences from the WHATWG version include:\n *
 * - Disallow
`local-part` (the part before the `@` symbol) to begin or end with a period (`.`).\n *
 * - Disallow `local-part` to be
longer than 64 characters.\n *
 * - Disallow the whole address to
be longer than 254 characters.\n *
 * If this pattern does not satisfy your business needs, you can use
`Validators.pattern()` to\n *
 * validate the value against a different pattern.\n *
 * @usageNotes\n *
 * ###
Validate that the field matches a valid email pattern\n *
 * ```typescript\n * const control = new
FormControl('bad@', Validators.email);\n *
 * console.log(control.errors); // {email: true}\n *
 * ```\n *
 * @returns An error map with the `email` property\n *
if the validation check fails, otherwise `null`.\n *
 * @see
`updateValueAndValidity()`\n *
 * /\n static
email(control: AbstractControl): ValidationErrors|null {\n    if
(isEmptyInputValue(control.value)) {\n        return null; // don't validate empty values to allow optional controls\n
    }\n    return EMAIL_REGEXP.test(control.value) ? null : {'email': true};\n    }\n\n/**\n *
 @description\n *
Validator that requires the length of the control's value to be greater than

```



```

or equal\n * to the provided minimum length. This validator is also provided by default if you use the\n * the
HTML5 `minlength` attribute.\n *\n * @usageNotes\n *\n * ### Validate that the field has a minimum of 3
characters\n *\n * ```typescript\n * const control = new FormControl('ng', Validators.minLength(3));\n *\n * console.log(control.errors); // {minlength: {requiredLength: 3, actualLength: 2}}\n *\n * ```\n *\n * ```html\n *
<input minlength="5">\n *\n * ```\n *\n * @returns A validator function that returns an error map with the\n *
`minlength` if the validation check fails, otherwise `null`.\n *\n * @see `updateValueAndValidity()`\n *\n * /\n
static minLength(minLength: number): ValidatorFn {\n *   return (control: AbstractControl): ValidationErrors | null
=> {\n *     if (isEmptyInputValue(control.value)) {\n *       return null; // don't validate empty values to allow optional
controls\n *     }\n *     const length: number = control.value\n *       ? control.value.length : 0;\n *     return length < minLength ?\n *       {'minlength': {requiredLength: minLength,\n *         'actualLength': length}} :\n *       null;\n *     };\n *   }\n * }\n * /\n *\n * @description\n * Validator that requires the length
of the control's value to be less than or equal\n * to the provided maximum length. This validator is also provided
by default if you use the\n * the HTML5 `maxlength` attribute.\n *\n * @usageNotes\n *\n * ### Validate that
the field has maximum of 5 characters\n *\n * ```typescript\n * const control = new FormControl('Angular',
Validators.maxLength(5));\n *\n * console.log(control.errors); // {maxlength: {requiredLength: 5, actualLength:
7}}\n *\n * ```\n *\n * ```html\n * <input maxlength="5">\n *\n * ```\n *\n * @returns A validator function that
returns an error map with the\n * `maxlength` property if the validation check fails, otherwise `null`.\n *\n *
@see `updateValueAndValidity()`\n *\n * /\n
static maxLength(maxLength: number): ValidatorFn {\n *   return (control: AbstractControl): ValidationErrors | null
=> {\n *     const length: number = control.value ? control.value.length : 0;\n *     return length > maxLength ?\n *
{'maxlength': {requiredLength: maxLength, 'actualLength': length}} :\n *     null;\n *     };\n *   }\n * }\n * /\n *\n *
@description\n * Validator that requires the control's value to match a regex pattern. This validator is also\n *
provided by default if you use the HTML5 `pattern` attribute.\n *\n * @usageNotes\n *\n * ### Validate that
the field only contains letters or spaces\n *\n * ```typescript\n * const control = new FormControl('1',
Validators.pattern('[a-zA-Z]*'));\n *\n * console.log(control.errors); // {pattern: {requiredPattern: '^[a-zA-Z]*$',
actualValue: '1'}}\n *\n * ```\n *\n * ```html\n * <input pattern="[a-zA-Z]*">\n *\n * ```\n *\n * @param pattern
A regular expression to be used as is to test the values,
or a string.\n * If a string is passed, the `^` character is prepended and the `$` character is\n * appended to the
provided string (if not already present), and the resulting regular\n * expression is used to test the values.\n *\n *
@returns A validator function that returns an error map with the\n * `pattern` property if the validation check fails,
otherwise `null`.\n *\n * @see `updateValueAndValidity()`\n *\n * /\n
static pattern(pattern: string|RegExp):
ValidatorFn {\n *   if (!pattern) return Validators.nullValidator;\n *   let regex: RegExp;\n *   let regexStr: string;\n *   if
(typeof pattern === 'string') {\n *     regexStr = ";\n *     if (pattern.charAt(0) !== '^') regexStr += '^';\n *     regexStr
+= pattern;\n *     if (pattern.charAt(pattern.length - 1) !== '$') regexStr += '$';\n *     regex = new
RegExp(regexStr);\n *   } else {\n *     regexStr = pattern.toString();\n *     regex = pattern;\n *   }\n *   return (control:
AbstractControl): ValidationErrors
| null => {\n *     if (isEmptyInputValue(control.value)) {\n *       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 *\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 * @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 *   return

```

```

function(control: AbstractControl) {
  return _mergeErrors(_executeValidators(control, presentValidators));
};
}
/**
 * @description
 * Compose multiple async validators into a single function that returns the
 * union
 * of the individual error objects for the provided control.
 * @returns A validator function that
 * returns an error map with the
 * merged error objects of the async validators if the validation check fails,
 * otherwise `null`.
 * @see `updateValueAndValidity()`
 */
static composeAsync(validators:
  (AsyncValidatorFn|null)[]): AsyncValidatorFn|null {
  if (!validators)
    return null;
  const presentValidators: AsyncValidatorFn[] = 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.');
```

```

normalized for IE9, otherwise it is set to 'null' when null\n  const normalizedValue = value == null ? '' : value;\n
this._renderer.setProperty(this._elementRef.nativeElement, 'value', normalizedValue);\n } \n\n /**\n *
  @description\n * Registers a function called when the control value changes.\n * \n * @param fn The callback
  function\n * \n registerOnChange(fn: (_: number|null) => void): void {\n  this.onChange = (value) => { fn(value
  == '' ? null : parseFloat(value)); }\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: () => void): void {\n  this.onTouched = fn; }\n\n /**\n * Sets the \"disabled\" property on the
  input element.\n * \n * @param isDisabled The disabled value\n * \n setDisabledState(isDisabled: boolean):
  void {\n  this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);\n } \n\n \"\"/**\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, Injectable, Injector, Input, OnDestroy, OnInit, Renderer2, forwardRef} from
  '@angular/core';\n\nimport {ControlValueAccessor, NG_VALUE_ACCESSOR} from
  './control_value_accessor';\n\nimport {NgControl} from './ng_control';\n\nexport const
  RADIO_VALUE_ACCESSOR: any = {\n  provide: NG_VALUE_ACCESSOR,\n  useExisting: forwardRef(()
  => RadioControlValueAccessor),\n  multi: true\n};\n\n/**\n * @description\n * Class used by Angular to track
  radio buttons. For internal use only.\n * \n @Injectable()\n\nexport class RadioControlRegistry {\n  private _accessors:
  any[] = [];\n\n /**\n * @description\n * Adds a control to the internal registry. For internal use only.\n * \n
  add(control: NgControl, accessor: RadioControlValueAccessor) {\n  this._accessors.push([control, accessor]);\n
  }\n\n /**\n * @description\n * Removes a control from the internal registry. For internal use only.\n * \n
  remove(accessor: RadioControlValueAccessor) {\n  for (let i = this._accessors.length - 1; i >= 0; --i) {\n  if
  (this._accessors[i][1] === accessor) {\n    this._accessors.splice(i, 1);\n    return;\n  }\n }\n }\n\n /**\n *
  @description\n * Selects a radio button. For internal use only.\n * \n select(accessor:
  RadioControlValueAccessor) {\n  this._accessors.forEach((c) => {\n
    if (this._isSameGroup(c, accessor) && c[1] !== accessor) {\n      c[1].fireUncheck(accessor.value);\n    }\n
  });\n }\n\n private _isSameGroup(\n  controlPair: [NgControl, RadioControlValueAccessor],\n  accessor:
  RadioControlValueAccessor): boolean {\n  if (!controlPair[0].control) return false;\n  return
  controlPair[0]._parent === accessor._control._parent &&\n    controlPair[1].name === accessor.name;\n
  }\n}\n\n/**\n * @description\n * The `ControlValueAccessor` for writing radio control values and listening to radio
  control\n * changes. The value accessor is used by the `FormControlDirective`, `FormControlName`, and\n *
  `NgModel` directives.\n * \n * @usageNotes\n * \n * ### Using radio buttons with reactive form directives\n * \n *
  The follow example shows how to use radio buttons in a reactive form. When using radio buttons in\n * a reactive
  form, radio buttons in the same group should have the same `formControlName`.\n * Providing a `name` attribute is
  optional.\n
  *\n * { @example forms/ts/reactiveRadioButtons/reactive_radio_button_example.ts region='Reactive' }\n *\n
  @NgModule ReactiveFormsModule\n * @NgModule FormsModule\n * @publicApi\n * \n @Directive({\n
  selector:\n  'input[type=radio][formControlName],input[type=radio][formControl],input[type=radio][ngModel]',\n
  host: {\n    '(change)': 'onChange()',\n    '(blur)': 'onTouched()',\n  },\n  providers: [RADIO_VALUE_ACCESSOR]\n})\n\nexport
  class RadioControlValueAccessor implements ControlValueAccessor,\n  OnDestroy, OnInit {\n  /** @internal
  *\n * // TODO(issue/24571): remove '!.\n  _state !: boolean;\n  /** @internal *\n * // TODO(issue/24571): remove
  '!.\n  _control !: NgControl;\n  /** @internal *\n * // TODO(issue/24571): remove '!.\n  _fn !: Function;\n\n /**\n
  * @description\n * The registered callback function called when a change event occurs on the input element.\n
  *\n * \n onChange = () => {};\n\n /**\n * @description\n * The registered callback function called when a blur
  event occurs on the input element.\n * \n * \n onTouched = () => {};\n\n /**\n * @description\n * Tracks the name
  of the radio input element.\n * \n * \n // TODO(issue/24571): remove '!.\n  @Input() name !: string;\n\n /**\n *
  @description\n * Tracks the name of the `FormControl` bound to the directive. The name corresponds\n * to a
  key in the parent `FormGroup` or `FormArray`.\n * \n * \n // TODO(issue/24571): remove '!.\n  @Input()\n
  formControlName !: string;\n\n /**\n * @description\n * Tracks the value of the radio input element\n * \n

```

```

@Input() value: any;\n\n constructor(\n  private _renderer: Renderer2, private _elementRef: ElementRef,\n  private _registry: RadioControlRegistry, private _injector: Injector) {\n\n /**\n * @description\n * A lifecycle\n method called when the directive is initialized. For internal use only.\n */\n ngOnInit(): void {\n  this._control =\n  this._injector.get(NgControl);\n  this._checkName();\n  this._registry.add(this._control,\n  this);\n }\n\n /**\n * @description\n * Lifecycle method called before the directive's instance is destroyed. For\n internal use only.\n */\n ngOnDestroy(): void { this._registry.remove(this); }\n\n /**\n * @description\n * Sets\n the "checked" property value on the radio input element.\n */\n * @param value The checked value\n */\n writeValue(value: any): void {\n  this._state = value === this.value;\n\n  this._renderer.setProperty(this._elementRef.nativeElement, 'checked', this._state);\n }\n\n /**\n * @description\n * Registers a function called when the control value changes.\n */\n * @param fn The callback function\n */\n registerOnChange(fn: (_: any) => {}): void {\n  this._fn = fn;\n  this.onChange = () => {\n    fn(this.value);\n    this._registry.select(this);\n  };\n }\n\n /**\n * Sets the "value" on the radio input element and unchecks it.\n */\n * @param value\n */\n fireUncheck(value: any): void { this.writeValue(value);\n }\n\n /**\n * @description\n * Registers a function called when the control is touched.\n */\n * @param fn The\n callback function\n */\n registerOnTouched(fn: () => {}): void { this.onTouched = fn; }\n\n /**\n * Sets the\n "disabled" property on the input element.\n */\n * @param isDisabled The disabled value\n */\n setDisabledState(isDisabled: boolean): void {\n  this._renderer.setProperty(this._elementRef.nativeElement,\n  'disabled', isDisabled);\n }\n\n private _checkName(): void {\n  if (this.name && this.formControlName &&\n  this.name !== this.formControlName) {\n    this._throwNameError();\n  }\n  if (!this.name &&\n  this.formControlName) this.name = this.formControlName;\n }\n\n private _throwNameError(): void {\n  throw\n  new Error(`\n    If you define both a name and a formControlName attribute on your radio button, their values\n    must match. Ex: <input type="radio" formControlName="food" name="food">\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-\n style license that can be\n * found in the LICENSE file at https://angular.io/license\n */\n\nimport {Directive,\n  ElementRef, Renderer2, StaticProvider, forwardRef} from '@angular/core';\nimport {ControlValueAccessor,\n  NG_VALUE_ACCESSOR} from './control_value_accessor';\n\nexport const RANGE_VALUE_ACCESSOR:\n  StaticProvider = {\n    provide: NG_VALUE_ACCESSOR,\n    useExisting: forwardRef(() =>\n  RangeValueAccessor),\n    multi: true\n};\n\n /**\n * @description\n * The `ControlValueAccessor` for writing a\n range value and listening to range input changes.\n * The value accessor is used by the `FormControlDirective`,\n `FormControlName`, and `NgModel`\n * directives.\n */\n * @usageNotes\n * ### Using a range input with a\n reactive form\n * The following example shows how to use a range input with a reactive form.\n * ```ts\n * const ageControl = new FormControl();\n * ```\n * \n * ```\n * <input type="range" [formControl]=ageControl>\n * ```\n */\n * @ngModule\n ReactiveFormsModule\n * @ngModule\n FormsModule\n * @publicApi\n */\n @Directive({\n  selector: '\n  input[type=range][formControlName],input[type=range][formControl],input[type=range][ngModel]',\n  host: {\n    '(change)': 'onChange($event.target.value)',\n    '(input)': 'onChange($event.target.value)',\n    '(blur)':\n  'onTouched()',\n  },\n  providers: [RANGE_VALUE_ACCESSOR]\n})\n\nexport class RangeValueAccessor\n  implements ControlValueAccessor {\n\n  /**\n * @description\n * The registered callback function called when a\n change or input event occurs on the input\n * 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  constructor(private _renderer: Renderer2, private _elementRef: ElementRef) {\n\n /**\n * Sets the "value" property on\n the input element.\n */\n * @param value The checked value\n */\n writeValue(value: any): void {\n  this._renderer.setProperty(this._elementRef.nativeElement, 'value', parseFloat(value));\n }\n\n /**\n * @description\n * Registers a function called when the control value changes.\n */\n * @param fn The callback\n function\n */\n registerOnChange(fn: (_: number|null) => void): void {\n  this.onChange = (value) => {\n    fn(value\n    == " ? null : parseFloat(value));\n  };\n }\n\n /**\n * @description\n * Registers a function called when the control\n is touched.\n */\n * @param fn The callback function\n */\n registerOnTouched(fn: () => void): void {\n

```

```

this.onTouched = fn; }
}

/**
 * Sets the "disabled" property on the range input element.
 * @param isDisabled The disabled value
 * @param setDisabledState(isDisabled: boolean): void
 */
this._renderer.setProperty(this._elementRef.nativeElement, 'disabled', isDisabled);
}

}

/**
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 * 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 ngModelGroup="person">
        <input [(ngModel)]="person.name" name="firstName">
      </div>
    </form>
  `
  ngModelWithFormGroup: `
    <div [formGroup]="myGroup">
      <input formControlName="firstName">
      <input [(ngModel)]="showMoreControls" [ngModelOptions]="{standalone: true}">
    </div>
  `
};

}

}

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 */
import {FormErrorExamples as Examples} from './error_examples';
export class ReactiveErrors {
  static controlParentException(): void {
    throw new Error(`formControlName must be used with a parent formGroup directive.`);
  }

  You'll want to add a formGroup directive and pass it an existing FormGroup instance (you can create one in your class).
  Example:
  ${Examples.formControlName};
  static ngModelGroupException(): void {
    throw new Error(`formControlName cannot be used with an ngModelGroup parent. It is only compatible with parents that also have a "form" prefix: formGroupName, formArrayName, or formGroup.`);
  }

  Option 1: Update the parent to be formGroupName (reactive form strategy)
  ${Examples.formGroupName}
  Option 2: Use ngModel instead of formControlName (template-driven strategy)
  ${Examples.ngModelGroup}`;
  static missingFormException(): void {
    throw new Error(`formGroup expects a FormGroup instance. Please pass one in.`);
  }

  Example:
  ${Examples.formControlName}`;
  static groupParentException(): void {
    throw new Error(`formGroupName must be used with a parent formGroup directive.`);
  }

  You'll want to add a formGroup directive and pass it an existing FormGroup instance (you can create one in your class).
  Example:
  ${Examples.formGroupName}`;
  static arrayParentException(): void {
    throw new Error(`formArrayName must be used with a parent formGroup directive.`);
  }

  You'll want to add a formGroup directive and pass it an existing FormGroup instance (you can create one in your class).
  Example:
  ${Examples.formArrayName}`;
  static disabledAttrWarning(): void {
    console.warn(`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)
  });
  static ngModelWarning(directiveName: string): void {
    console.warn(`It looks like you're using ngModel on the same form field as ${directiveName}. Support for using the ngModel input property and ngModelChange event with reactive form directives has been deprecated in Angular v6 and will be removed in Angular v7. For more information on this, see our API docs here: https://angular.io/api/forms/${directiveName} === 'formControl' ? 'FormControlDirective' : 'FormControlName'}#use-with-ngmodel`);
  }
}

}

}

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```

```

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

import {Directive, ElementRef, Host, Input, OnDestroy,
Optional, Renderer2, StaticProvider, forwardRef, LooseIdentical 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 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.

 * @example
const selectedCountriesControl = new FormControl();
<select [compareWith]="compareFn" [formControl]="selectedCountriesControl">
 * <option *ngFor="let
country of countries" [ngValue]="country">
 * {{country.name}}
 * </option>
 * </select>
 * @example
compareFn(c1: Country, c2: Country): boolean {
  return c1 && c2 ? c1.id === c2.id : c1 === c2;
}
 * **Note:** We listen to the 'change' event because 'input' events aren't fired
 * for selects in Firefox and
IE:
 * https://bugzilla.mozilla.org/show_bug.cgi?id=1024350
 * https://developer.microsoft.com/en-us/microsoft-
edge/platform/issues/4660045
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @publicApi
}
@Directive({
  selector:
'select:not([multiple])[formControlName],select:not([multiple])[formControl],select:not([multiple])[ngModel]',
  host: {
    '(change)': 'onChange($event.target.value)',
    '(blur)': 'onTouched()',
  },
  providers:
[SELECT_VALUE_ACCESSOR]
})
export class SelectControlValueAccessor implements
ControlValueAccessor {
  value: any;
  /** @internal */
  _optionMap: Map<string, any> = new Map<string,
any>();
  /** @internal */
  _idCounter: number = 0;
  /**
 * @description
 * The registered callback
function called when a change event occurs on the input element.
 */
  onChange = (_: any) => {};
  /**
 * @description
 * The registered callback function called when a blur event occurs on the input element.
 */
  onTouched = () => {};
  /**
 * @description
 * Tracks the option comparison algorithm for tracking
identities when
 * checking for changes.
 */
  @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) {}
  /**
 * 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
 */
  writeValue(value: any): void {
    this.value = value;
    const id: string | null = this._getOptionId(value);
    if (id
=== null) {
      this._renderer.setProperty(this._elementRef.nativeElement, 'selectedIndex', -1);
    }
    const
valueString = _buildValueString(id, value);
    this._renderer.setProperty(this._elementRef.nativeElement, 'value',
valueString);
  }
  /**
 * @description
 * Registers a function called when the control value changes.
 */
}

```

```

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

```

```

{{ country.name
}}\n * </option>\n * </select>\n * ```\n * \n * ### Customizing option selection\n * \n * To customize the default
option comparison algorithm, `<select>` supports `compareWith` input.\n * See the `SelectControlValueAccessor`
for usage.\n * \n * @ngModule ReactiveFormsModule\n * @ngModule FormsModule\n * @publicApi\n
*\n @Directive({\n selector:\n
'select[multiple][formControlName],select[multiple][formControl],select[multiple][ngModel]',\n host: {'(change)':
'onChange($event.target)', '(blur)': 'onTouched()'},\n providers:
[SELECT_MULTIPLE_VALUE_ACCESSOR])\n export class SelectMultipleControlValueAccessor implements
ControlValueAccessor {\n /**\n * @description\n * The current value\n * \n value: any;\n * \n /** @internal *\n
_optionMap: Map<string, ÉµNgSelectMultipleOption> = new Map<string, ÉµNgSelectMultipleOption>;\n /**
@internal *\n _idCounter: number = 0;\n * \n /**\n * @description\n * The registered callback function called
when a change event
occurs on the input element.\n * \n onChange = (_: any) => {};\n * \n /**\n * @description\n * The registered
callback function called when a blur event occurs on the input element.\n * \n onTouched = () => {};\n * \n /**\n
* @description\n * Tracks the option comparison algorithm for tracking identities when\n * checking for changes.\n
*\n * \n @Input()\n set compareWith(fn: (o1: any, o2: any) => boolean) {\n if (typeof fn !== 'function') {\n throw
new Error('compareWith must be a function, but received ${JSON.stringify(fn)}');\n }\n this._compareWith =
fn;\n }\n\n private _compareWith: (o1: any, o2: any) => boolean = looseIdentical;\n\n constructor(private
_renderer: Renderer2, private _elementRef: ElementRef) {\n\n /**\n * @description\n * Sets the `value`
property on one or of more\n * of the select's options.\n * \n * @param value The value\n * \n
writeValue(value: any): void {\n this.value = value;\n let optionSelectedStateSetter:
(opt: ÉµNgSelectMultipleOption, o: any) => void;\n if (Array.isArray(value)) {\n // convert values to ids\n
const ids = value.map((v) => this._getOptionId(v));\n optionSelectedStateSetter = (opt, o) => {\n
opt._setSelected(ids.indexOf(o.toString()) > -1); }\n } else {\n optionSelectedStateSetter = (opt, o) => {\n
opt._setSelected(false); }\n }\n this._optionMap.forEach(optionSelectedStateSetter);\n }\n\n /**\n
* @description\n * Registers a function called when the control value changes\n * and writes an array of the
selected options.\n * \n * @param fn The callback function\n * \n registerOnChange(fn: (value: any) => any):
void {\n this.onChange = (_: any) => {\n const selected: Array<any> = [];\n if
(!_hasOwnProperty('selectedOptions')) {\n const options: HTMLCollection = _selectedOptions;\n for (let i
= 0; i < options.length; i++) {\n const opt: any = options.item(i);\n const val: any =
this._getOptionValue(opt.value);\n
selected.push(val);\n }\n }\n // Degrade on IE\n else {\n const options: HTMLCollection =
<HTMLCollection>_options;\n for (let i = 0; i < options.length; i++) {\n const opt: HTMLOption =
options.item(i);\n if (opt.selected) {\n const val: any = this._getOptionValue(opt.value);\n
selected.push(val);\n }\n }\n }\n this.value = selected;\n fn(selected);\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 {\n this.onTouched = fn;\n }\n\n /**\n
* @description\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(value: ÉµNgSelectMultipleOption): string {\n const id: string =
(this._idCounter++).toString();\n this._optionMap.set(id, value);\n return id;\n }\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, 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) !._value : valueString;\n }\n}\n\n /**\n * @description\n * Marks
`<option>` as dynamic, so Angular can be notified when options change.\n * \n * @see
`SelectMultipleControlValueAccessor`\n * \n * @ngModule ReactiveFormsModule\n * @ngModule

```



```

FormsModule\n * @publicApi\n *^@Directive({ selector: 'option'})\nexport class ÉµNgSelectMultipleOption
implements OnDestroy {\n // TODO(issue/24571):
  remove '!'\n id !: string;\n /** @internal */\n _value: any;\n\n constructor(\n   private _element: ElementRef,
  private _renderer: Renderer2,\n   @Optional() @Host() private _select: SelectMultipleControlValueAccessor) {\n
  if (this._select) {\n   this.id = this._select._registerOption(this);\n   }\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._value = value;\n   this._setElementValue(_buildValueString(this.id, value));\n   this._select.writeValue(this._select.value);\n }\n\n /**\n  * @description\n  * Tracks simple string values bound to the option element.\n  * For objects, use the
  `ngValue` input binding.\n  */\n  @Input('value')\n  set value(value: any) {\n   if (this._select) {\n   this._value =
  value;\n   this._setElementValue(_buildValueString(this.id,
  value));\n   this._select.writeValue(this._select.value);\n   } else {\n   this._setElementValue(value);\n   }\n }\n\n /** @internal */\n  _setElementValue(value: string): void {\n
  this._renderer.setProperty(this._element.nativeElement, 'value', value);\n }\n\n /** @internal */\n  _setSelected(selected: boolean) {\n   this._renderer.setProperty(this._element.nativeElement, 'selected', selected);\n }\n\n /**\n  * @description\n  * Lifecycle method called before the directive's instance is destroyed. For internal
  use only.\n  */\n  ngOnDestroy(): void {\n   if (this._select) {\n   this._select._optionMap.delete(this.id);\n   this._select.writeValue(this._select.value);\n   }\n }\n}\n\nexport {ÉµNgSelectMultipleOption as
  NgSelectMultipleOption};\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 {isDevMode, ÉµlooseIdentical as looseIdentical} from '@angular/core';\nimport {FormArray,
  FormControl, FormGroup} from './model';\nimport {Validators} from './validators';\nimport
  {AbstractControlDirective} from './abstract_control_directive';\nimport {AbstractFormGroupDirective} from
  './abstract_form_group_directive';\nimport {CheckboxControlValueAccessor} from
  './checkbox_value_accessor';\nimport {ControlContainer} from './control_container';\nimport
  {ControlValueAccessor} from './control_value_accessor';\nimport {DefaultValueAccessor} from
  './default_value_accessor';\nimport {NgControl} from './ng_control';\nimport {normalizeAsyncValidator,
  normalizeValidator} from './normalize_validator';\nimport {NumberValueAccessor} from
  './number_value_accessor';\nimport {RadioControlValueAccessor} from './radio_control_value_accessor';\nimport
  {RangeValueAccessor} from './range_value_accessor';\nimport {FormArrayName} from
  './reactive_directives/form_group_name';\nimport
  {ReactiveErrors} from './reactive_errors';\nimport {SelectControlValueAccessor} from
  './select_control_value_accessor';\nimport {SelectMultipleControlValueAccessor} from
  './select_multiple_control_value_accessor';\nimport {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn}
  from './validators';\n\nexport function controlPath(name: string | null, parent: ControlContainer): string[] {\n
  return [...parent.path !, name !];\n}\n\nexport function setUpControl(control: FormControl, dir: NgControl): void {\n
  if (!control) _throwError(dir, 'Cannot find control with');\n  if (!dir.valueAccessor) _throwError(dir, 'No value
  accessor for form control with');\n\n  control.validator = Validators.compose([control.validator !, dir.validator]);\n
  control.asyncValidator = Validators.composeAsync([control.asyncValidator !, dir.asyncValidator]);\n
  dir.valueAccessor !.writeValue(control.value);\n\n  setUpViewChangePipeline(control, dir);\n
  setUpModelChangePipeline(control, dir);\n  setUpBlurPipeline(control,
  dir);\n\n  if (dir.valueAccessor !.setDisabledState) {\n   control.registerOnDisabledChange(\n   (isDisabled:
  boolean) => { dir.valueAccessor !.setDisabledState !(isDisabled); });\n   }\n }\n\n // re-run validation when validator
  binding changes, e.g. minlength=3 -> minlength=4\n  dir._rawValidators.forEach((validator: Validator |
  ValidatorFn) => {\n   if (<Validator>validator).registerOnValidatorChange)\n
  (<Validator>validator).registerOnValidatorChange !(() => control.updateValueAndValidity());\n   });\n }\n
  dir._rawAsyncValidators.forEach((validator: AsyncValidator | AsyncValidatorFn) => {\n   if

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((<Validator>validator).registerOnValidatorChange)\n    (<Validator>validator).registerOnValidatorChange !(() =>
control.updateValueAndValidity());\n });\n}\n\nexport function cleanUpControl(control: FormControl, dir:
NgControl) {\n  dir.valueAccessor!.registerOnChange(() => _noControlError(dir));\n  dir.valueAccessor
!.registerOnTouched(() => _noControlError(dir));\n\n  dir._rawValidators.forEach((validator: any) => {\n    if (validator.registerOnValidatorChange) {\n
validator.registerOnValidatorChange(null);\n    }\n  });\n\n  dir._rawAsyncValidators.forEach((validator: any) =>
{\n    if (validator.registerOnValidatorChange) {\n      validator.registerOnValidatorChange(null);\n    }\n  });\n\n  if
(control) control._clearChangeFns();\n}\n\nfunction setUpViewChangePipeline(control: FormControl, dir:
NgControl): void {\n  dir.valueAccessor!.registerOnChange((newValue: any) => {\n    control._pendingValue =
newValue;\n    control._pendingChange = true;\n    control._pendingDirty = true;\n\n    if (control.updateOn ===
'change') updateControl(control, dir);\n  });\n}\n\nfunction setUpBlurPipeline(control: FormControl, dir:
NgControl): void {\n  dir.valueAccessor!.registerOnTouched(() => {\n    control._pendingTouched = true;\n\n    if
(control.updateOn === 'blur' && control._pendingChange) updateControl(control, dir);\n    if (control.updateOn
!== 'submit') control.markAsTouched();\n  });\n}\n\nfunction updateControl(control: FormControl, dir: NgControl):
void {\n  if (control._pendingDirty) control.markAsDirty();\n  control.setValue(control._pendingValue,
{emitModelToViewChange: false});\n  dir.viewToModelUpdate(control._pendingValue);\n  control._pendingChange =
false;\n}\n\nfunction setUpModelChangePipeline(control: FormControl, dir: NgControl):
void {\n  control.registerOnChange((newValue: any, emitModelEvent: boolean) => {\n    // control -> view\n    dir.valueAccessor!.writeValue(newValue);\n\n    // control -> ngModel\n    if (emitModelEvent)
dir.viewToModelUpdate(newValue);\n  });\n}\n\nexport function setUpFormContainer(\n  control: FormGroup |
FormArray, dir: AbstractFormGroupDirective | FormArrayName) {\n  if (control == null) _throwError(dir, 'Cannot
find control with');\n  control.validator = Validators.compose([control.validator, dir.validator]);\n  control.asyncValidator = Validators.composeAsync([control.asyncValidator,
dir.asyncValidator]);\n}\n\nfunction _noControlError(dir: NgControl) {\n  return _throwError(dir, 'There is no
FormControl instance attached to form control element with');\n}\n\nfunction _throwError(dir:
AbstractControlDirective, message: string): void {\n  let messageEnd: string;\n  if (dir.path!.length > 1) {\n
messageEnd = `path: '${dir.path!.join(' -> ')}';\n  } else if (dir.path![0]) {\n    messageEnd = `name: '${dir.path}'`;
\n  } else {\n    messageEnd = 'unspecified name attribute';\n  }\n  throw new Error(`${message}
${messageEnd}`);\n}\n\nexport function composeValidators(validators: Array<Validator|ValidatorFn>:
ValidatorFn|null) {\n  return validators != null ? Validators.compose(validators.map(normalizeValidator)) :
null;\n}\n\nexport function composeAsyncValidators(validators: Array<AsyncValidator|AsyncValidatorFn>:
AsyncValidatorFn|null) {\n  return validators != null ?
Validators.composeAsync(validators.map(normalizeAsyncValidator))
:\n  null;\n}\n\nexport function isPropertyUpdated(changes: {[key: string]: any}, viewModel:
any): boolean {\n  if (!changes.hasOwnProperty('model')) return false;\n  const change = changes['model'];\n\n  if
(change.isFirstChange()) return true;\n  return !looseIdentical(viewModel, change.currentValue);\n}\n\nconst
BUILTIN_ACCESSORS = [\n  CheckboxControlValueAccessor,\n  RangeValueAccessor,\n  NumberValueAccessor,\n  SelectControlValueAccessor,\n  SelectMultipleControlValueAccessor,\n  RadioControlValueAccessor,\n];\n\nexport function isBuiltinAccessor(valueAccessor: ControlValueAccessor):
boolean {\n  return BUILTIN_ACCESSORS.some(a => valueAccessor.constructor === a);\n}\n\nexport function
syncPendingControls(form: FormGroup, directives: NgControl[]): void {\n  form._syncPendingControls();\n  directives.forEach(dir => {\n    const control = dir.control as FormControl;\n    if (control.updateOn === 'submit'
&& control._pendingChange) {\n      dir.viewToModelUpdate(control._pendingValue);\n      control._pendingChange = false;\n    }\n  });\n}\n\n// TODO: vsavkin remove it once
https://github.com/angular/angular/issues/3011 is implemented\nexport function selectValueAccessor(\n  dir:
NgControl, valueAccessors: ControlValueAccessor[]): ControlValueAccessor|null {\n  if (!valueAccessors) return
null;\n\n  if (!Array.isArray(valueAccessors))\n    _throwError(dir, 'Value accessor was not provided as an array for
form control with');\n\n  let defaultAccessor: ControlValueAccessor|undefined = undefined;\n  let builtinAccessor:

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ControlValueAccessor|undefined = undefined;\n let customAccessor: ControlValueAccessor|undefined =
undefined;\n\n valueAccessors.forEach((v: ControlValueAccessor) => {\n if (v.constructor ===
DefaultValueAccessor) {\n defaultAccessor = v;\n\n } else if (isBuiltinAccessor(v)) {\n if
(builtinAccessor)\n _throwError(dir, 'More than one built-in value accessor matches form control with');\n
builtinAccessor = v;\n\n } else {\n if (customAccessor)\n _throwError(dir, 'More than one custom value
accessor matches form control with');\n customAccessor = v;\n\n }});\n\n if (customAccessor) return
customAccessor;\n if (builtinAccessor) return builtinAccessor;\n if (defaultAccessor) return defaultAccessor;\n\n
_throwError(dir, 'No valid value accessor for form control with');\n return null;\n}\n\n\nexport function
removeDir<T>(list: T[], el: T): void {\n const index = list.indexOf(el);\n if (index > -1) list.splice(index,
1);\n}\n\n\n// TODO(kara): remove after deprecation period\nexport function _ngModelWarning(\n name: string,
type: { _ngModelWarningSentOnce: boolean },\n instance: { _ngModelWarningSent: boolean }, warningConfig:
string | null) {\n if (!isDevMode() || warningConfig === 'never') return;\n if (((warningConfig === null ||
warningConfig === 'once') && !type._ngModelWarningSentOnce) ||\n (warningConfig === 'always' &&
!instance._ngModelWarningSent))\n {\n ReactiveErrors.ngModelWarning(name);\n type._ngModelWarningSentOnce = true;\n
instance._ngModelWarningSent = true;\n }\n}\n\n", "/*\n * @license\n * Copyright Google Inc. All Rights
Reserved.\n * Use of this source code is governed by an MIT-style license that can be\n * found in the
LICENSE file at https://angular.io/license\n *\n\nimport { EventEmitter } from '@angular/core';\nimport
{ Observable } from 'rxjs';\nimport { composeAsyncValidators, composeValidators } from
'./directives/shared';\nimport { AsyncValidatorFn, ValidationErrors, ValidatorFn } from
'./directives/validators';\nimport { toObservable } from './validators';\n\n/**\n * Reports that a FormControl is valid,
meaning that no errors exist in the input value.\n *\n * @see `status`\n */\nexport const VALID = 'VALID';\n\n/**\n * Reports that a FormControl is invalid, meaning that an error exists in the input value.\n *\n * @see `status`\n */\nexport const INVALID = 'INVALID';\n\n/**\n * Reports
that a FormControl is pending, meaning that that async validation is occurring and\n * errors are not yet available
for the input value.\n *\n * @see `markAsPending`\n * @see `status`\n */\nexport const PENDING =
'PENDING';\n\n/**\n * Reports that a FormControl is disabled, meaning that the control is exempt from ancestor\n
* calculations of validity or value.\n *\n * @see `markAsDisabled`\n * @see `status`\n */\nexport const DISABLED
= 'DISABLED';\n\nfunction _find(control: AbstractControl, path: Array<string|number>| string, delimiter: string)
{\n if (path === null) return null;\n\n if (!Array.isArray(path)) {\n path = path.split(delimiter);\n }\n\n if
(Array.isArray(path) && path.length === 0) return null;\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 let controlToFind:
AbstractControl|null = control;\n path.forEach((name: string | number) => {\n if (controlToFind instanceof
FormGroup) {\n\n controlToFind = controlToFind.controls.hasOwnProperty(name as string) ?\n
controlToFind.controls[name] :\n null;\n } else if (controlToFind instanceof FormArray) {\n
controlToFind = controlToFind.at(<number>name) || null;\n } else {\n controlToFind = null;\n }\n });\n\n
return controlToFind;\n}\n\nfunction coerceToValidator(\n validatorOrOpts?: ValidatorFn | ValidatorFn[] |
AbstractControlOptions | null): ValidatorFn|\n null {\n const validator =\n (isOptionsObj(validatorOrOpts) ?
(validatorOrOpts as AbstractControlOptions).validators :\n (validatorOrOpts as ValidatorFn
|\n ValidatorFn[] | null);\n\n return Array.isArray(validator) ? composeValidators(validator) : validator ||
null;\n}\n\nfunction coerceToAsyncValidator(\n asyncValidator?: AsyncValidatorFn | AsyncValidatorFn[] | null,
validatorOrOpts?: ValidatorFn |\n ValidatorFn[] | AbstractControlOptions | null): AsyncValidatorFn|null
{\n const origAsyncValidator =\n (isOptionsObj(validatorOrOpts) ? (validatorOrOpts as
AbstractControlOptions).asyncValidators :\n asyncValidator) as AsyncValidatorFn |\n AsyncValidatorFn | null;\n\n
return Array.isArray(origAsyncValidator) ?\n composeAsyncValidators(origAsyncValidator) :\n origAsyncValidator ||
null;\n}\n\nexport type FormHooks = 'change' | 'blur' | 'submit';\n\n/**\n * Interface for options provided to an

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`AbstractControl`.n *n * @publicApi\n *^nexport interface AbstractControlOptions {n /**n * @description\n * The list of validators applied to a control.n *^n validators?: ValidatorFn|ValidatorFn[]|null;n /**n * @description\n * The list of async validators applied to control.n *^n asyncValidators?: AsyncValidatorFn|AsyncValidatorFn[]|null;n /**n * @description\n * The event name for control to update upon.n *^n updateOn?: 'change'|'blur'|'submit';n }n\nfunction isOptionsObj(n validatorOrOpts?: ValidatorFn | ValidatorFn[] | AbstractControlOptions | null): boolean {n return validatorOrOpts != null && !Array.isArray(validatorOrOpts) &&n typeof validatorOrOpts === 'object';n }n\n/**n * This is the base class for `FormControl`, `FormGroup`, and `FormArray`.n *n * It provides some of the shared behavior that all controls and groups of controls have, like\n * running validators, calculating status, and resetting state. It also defines the properties\n * that are shared between all sub-classes, like `value`, `valid`, and `dirty`. It shouldn't be\n * instantiated directly.n *n * @see [Forms Guide](/guide/forms)n * @see [Reactive Forms Guide](/guide/reactive-forms)n * @see [Dynamic Forms Guide](/guide/dynamic-form)n *n * @publicApi\n *^nexport abstract class AbstractControl {n /** @internal ^n // TODO(issue/24571): remove '!.\n _pendingDirty !: boolean;n\n /** @internal ^n // TODO(issue/24571): remove '!.\n _pendingTouched !: boolean;n\n /** @internal ^n _onCollectionChange = () => {};\n /** @internal ^n // TODO(issue/24571): remove '!.\n _updateOn !: FormHooks;n\n // TODO(issue/24571): remove '!.\n private _parent !: FormGroup | FormArray;\n private _asyncValidationSubscription: any;\n\n /**n * The current value of the control.n *n * * For a `FormControl`, the current value.n * * For an enabled `FormGroup`, the values of enabled controls as an object\n * with a key-value pair for each member of the group.n * * For a disabled `FormGroup`, the values of all controls as an object\n * with a key-value pair for each member of the group.n * * For a `FormArray`, the values of enabled controls as an array.n *n *^n public readonly value: any;\n\n /**n * Initialize the AbstractControl instance.n *n * @param validator The function that determines the synchronous validity of this control.n * @param asyncValidator The function that determines the asynchronous validity of this\n * control.n *^n constructor(public validator: ValidatorFn|null, public asyncValidator: AsyncValidatorFn|null) {}n\n /**n * The parent control.n *^n get parent(): FormGroup|FormArray { return this._parent; }n\n /**n * The validation status of the control. There are four possible\n * validation status values:\n *n * * **VALID***: This control has passed all validation checks.\n * * * **INVALID***: This control has failed at least one validation check.\n * * * **PENDING***: This control is in the midst of conducting a validation check.\n * * * **DISABLED***: This control is exempt from validation checks.\n *n * These status values are mutually exclusive, so a control cannot be\n * both valid AND invalid or invalid AND disabled.n *^n // TODO(issue/24571): remove '!.\n public readonly status !: string;n\n /**n * A control is `valid` when its `status` is `VALID`.n *n * @see {@link AbstractControl.status}\n *n * @returns True if the control has passed all of its validation tests,\n * false otherwise.n *^n get valid(): boolean { return this.status === VALID; }n\n /**n * A control is `invalid` when its `status` is `INVALID`.n *n * @see {@link AbstractControl.status}\n *n * @returns True if this control has failed one or more of its validation checks,\n * false otherwise.n *^n get invalid(): boolean { return this.status === INVALID; }n\n /**n * A control is `pending` when its `status` is `PENDING`.n *n * @see {@link AbstractControl.status}\n *n * @returns True if this control is in the process of conducting a validation check,\n * false otherwise.n *^n get pending(): boolean { return this.status == PENDING; }n\n /**n * A control is `disabled` when its `status` is `DISABLED`.n *n * Disabled controls are exempt from validation checks and\n * are not included in the aggregate value of their ancestor\n * controls.n *n * @see {@link AbstractControl.status}\n *n * @returns True if the control is disabled,\n * false otherwise.n *^n get disabled(): boolean { return this.status === DISABLED; }n\n /**n * A control is `enabled` as long as its `status` is not `DISABLED`.n *n * @returns True if the control has any status other than `DISABLED`,\n * false if the status is `DISABLED`.n *n * @see {@link AbstractControl.status}\n *n *^n get enabled(): boolean { return this.status !== DISABLED; }n\n /**n * An object containing any errors generated by failing validation,\n * or null if there are no errors.n *^n // TODO(issue/24571): remove '!.\n public readonly errors !: ValidationErrors | null;n\n /**n * A control is `pristine` if the user has not yet changed\n
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* the value in the UI.\n * \n * @returns True if the user has not yet changed the value in the UI; compare `dirty`.\n
* Programmatic changes to a control's value do not
mark it dirty.\n * \n public readonly pristine: boolean = true;\n /**\n * A control is `dirty` if the user has
changed the value\n * in the UI.\n * \n * @returns True if the user has changed the value of this control in the UI;
compare `pristine`.\n * Programmatic changes to a control's value do not mark it dirty.\n * \n get dirty(): boolean
{ return !this.pristine; }\n\n /**\n * True if the control is marked as `touched`.\n * \n * A control is marked
`touched` once the user has triggered\n * a `blur` event on it.\n * \n public readonly touched: boolean = false;\n\n
/**\n * True if the control has not been marked as touched\n * \n * A control is `untouched` if the user 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 * \n * @see `markAsDirty()`\n *
* \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 * \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 * \n * @see `markAsDirty()`\n * \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\n this._pendingTouched = false;\n\n this._forEachChild(\n

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(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 `markAsTouched()`\n * @see `markAsUntouched()`\n * @see `markAsDirty()`\n
*\n * @param opts Configuration options that determine how the control emits events after\n * 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 markAsPristine(opts: {onlySelf?: boolean} = {}): void {\n (this as {pristine:
boolean}).pristine = true;\n this._pendingDirty = false;\n\n this._forEachChild((control: AbstractControl) => {
control.markAsPristine({onlySelf: true}); });\n\n if (this._parent && !opts.onlySelf) {\n
this._parent._updatePristine(opts);\n }\n }\n\n /**\n * Marks the control as `pending`.\n *\n * A control is
pending while the control performs async validation.\n *\n * @see {@link AbstractControl.status}\n
*\n * @param opts Configuration options that determine how the control propagates changes and\n * 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 * * `emitEvent`: When true or not supplied (the default), the
`statusChanges`\n * observable emits an event with the latest status the control is marked pending.\n * When
false, no events are emitted.\n *\n */\n markAsPending(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}):
void {\n (this as {status: string}).status = PENDING;\n\n if (opts.emitEvent !== false) {\n (this.statusChanges
as EventEmitter<any>).emit(this.status);\n }\n\n if (this._parent && !opts.onlySelf) {\n
this._parent.markAsPending(opts);\n }\n }\n\n /**\n * Disables the control. This means the control is exempt
from validation checks and\n * excluded from the aggregate value of
any parent. Its status is `DISABLED`.\n *\n * If the control has children, all children are also disabled.\n *\n *
@see {@link AbstractControl.status}\n *\n * @param opts Configuration options that determine how the control
propagates\n * changes and emits events after the control is disabled.\n * * `onlySelf`: When true, mark only this
control. When false or not supplied,\n * marks all direct ancestors. Default is 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 disabled.\n * When false, no events are emitted.\n */\n disable(opts:
{onlySelf?: boolean, emitEvent?: boolean} = {}): void {\n // If parent has been marked artificially dirty we don't
want to re-calculate the\n // parent's dirtiness based on the children.\n const skipPristineCheck =
this._parentMarkedDirty(opts.onlySelf);\n\n (this as {status:
string}).status = DISABLED;\n (this as {errors: ValidationErrors | null}).errors = null;\n this._forEachChild(\n
(control: AbstractControl) => { control.disable({...opts, onlySelf: true}); });\n this._updateValue();\n\n if
(opts.emitEvent !== false) {\n (this.valueChanges as EventEmitter<any>).emit(this.value);\n
(this.statusChanges as EventEmitter<string>).emit(this.status);\n }\n\n this._updateAncestors({...opts,
skipPristineCheck});\n this._onDisabledChange.forEach((changeFn) => changeFn(true));\n }\n\n /**\n *
Enables the control. This means the control is included in validation checks and\n * the aggregate value of its
parent. Its status recalculates based on its value and\n * its validators.\n *\n * By default, if the control has
children, all children are enabled.\n *\n * @see {@link AbstractControl.status}\n *\n * @param opts Configure
options that control how the control propagates changes and\n * emits events when
marked as untouched\n * * `onlySelf`: When true, mark only this control. When false or not supplied,\n * marks
all direct ancestors. Default is 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

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control is enabled.\n * When false, no events are emitted.\n */\n enable(opts: {onlySelf?: boolean, emitEvent?:
boolean} = {}): void {\n // If parent has been marked artificially dirty we don't want to re-calculate the\n //
parent's dirtiness based on the children.\n const skipPristineCheck = this._parentMarkedDirty(opts.onlySelf);\n\n
(this as {status: string}).status = VALID;\n this._forEachChild(\n (control: AbstractControl) => {\n
control.enable({...opts, onlySelf: true});\n });\n this.updateValueAndValidity({onlySelf: true, emitEvent:
opts.emitEvent});\n\n this._updateAncestors({...opts, skipPristineCheck});\n\n
this._onDisabledChange.forEach((changeFn)\n => changeFn(false));\n }\n\n private _updateAncestors(\n opts: {onlySelf?: boolean, emitEvent?: boolean,
skipPristineCheck?: boolean}) {\n if (this._parent && !opts.onlySelf) {\n
this._parent.updateValueAndValidity(opts);\n if (!opts.skipPristineCheck) {\n
this._parent._updatePristine();\n } }\n this._parent._updateTouched();\n }\n }\n\n /**\n * @param parent
Sets the parent of the control\n */\n setParent(parent: FormGroup|FormArray): void { this._parent = parent; }\n\n
/**\n * Sets the value of the control. Abstract method (implemented in sub-classes).\n */\n abstract
setValue(value: any, options?: Object): void;\n\n /**\n * Patches the value of the control. Abstract method
(implemented in sub-classes).\n */\n abstract patchValue(value: any, options?: Object): void;\n\n /**\n * Resets
the control. Abstract method (implemented in sub-classes).\n */\n abstract reset(value?: any, options?:
Object): void;\n\n /**\n * Recalculates the value and validation status of the control.\n */\n * By default, it also
updates the value and validity of its ancestors.\n */\n * @param opts Configuration options determine how the
control propagates changes and emits events\n * after updates and validity checks are applied.\n * * `onlySelf`:
When true, only update this control. When false or not supplied,\n * update all direct ancestors. Default is 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 updated.\n * When false, no events are
emitted.\n */\n updateValueAndValidity(opts: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {\n
this._setInitialStatus();\n this._updateValue();\n\n if (this.enabled) {\n this._cancelExistingSubscription();\n
(this as {errors: ValidationErrors | null}).errors =\n this._runValidator();\n (this as {status: string}).status = this._calculateStatus();\n\n if (this.status === VALID
|| this.status === PENDING) {\n this._runAsyncValidator(opts.emitEvent);\n }\n }\n\n if (opts.emitEvent
!== false) {\n (this.valueChanges as EventEmitter<any>).emit(this.value);\n (this.statusChanges as
EventEmitter<string>).emit(this.status);\n }\n\n if (this._parent && !opts.onlySelf) {\n
this._parent.updateValueAndValidity(opts);\n }\n }\n\n /** @internal */\n _updateTreeValidity(opts:
{emitEvent?: boolean} = {emitEvent: true}): void {\n this._forEachChild((ctrl: AbstractControl) =>\n
ctrl._updateTreeValidity(opts));\n this.updateValueAndValidity({onlySelf: true, emitEvent: opts.emitEvent});\n
}\n\n private _setInitialStatus() {\n (this as {status: string}).status = this._allControlsDisabled() ? DISABLED :
VALID;\n }\n\n private _runValidator(): ValidationErrors|null {\n return this.validator ? this.validator(this)
: null;\n }\n\n private _runAsyncValidator(emitEvent?: boolean): void {\n if (this.asyncValidator) {\n (this
as {status: string}).status = PENDING;\n const obs = toObservable(this.asyncValidator(this));\n
this._asyncValidationSubscription =\n obs.subscribe((errors: ValidationErrors | null) => this.setErrors(errors,
{emitEvent}));\n }\n }\n\n private _cancelExistingSubscription(): void {\n if
(this._asyncValidationSubscription) {\n this._asyncValidationSubscription.unsubscribe();\n }\n }\n\n /**\n *
Sets errors on a form control when running validations manually, rather than automatically.\n */\n * Calling
`setErrors` also updates the validity of the parent control.\n */\n * @usageNotes\n * ### Manually set the errors
for a control\n */\n * ```\n * const login = new FormControl('someLogin');\n * login.setErrors({\n *
notUnique: true\n * });\n * expect(login.valid).toEqual(false);\n * expect(login.errors).toEqual({\n
notUnique: true });\n * login.setValue('someOtherLogin');\n * expect(login.valid).toEqual(true);\n *
```.\n */\n setErrors(errors: ValidationErrors|null, opts: {emitEvent?: boolean} = {}): void {\n (this as {errors:
ValidationErrors | null}).errors = errors;\n this._updateControlsErrors(opts.emitEvent !== false);\n }\n\n /**\n *
Retrieves a child control given the control's name or path.\n */\n * @param path A dot-delimited string or array of
string/number values that define the path to the\n * control.\n */\n * @usageNotes\n * ### Retrieve a nested

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control\n * \n * For example, to get a `name` control nested within a `person` sub-group:\n * \n * *
`this.form.get('person.name');`\n * \n * -OR-\n * \n * * `this.form.get(['person', 'name']);`\n * \n * \n get(path:
Array<string|number>|string): AbstractControl|null { return _find(this, path, '.'); }\n\n /**\n * @description\n *
Reports error data for the control with the given
path.\n * \n * @param errorCode The code of the error to check\n * @param path A list of control names that
designates how to move from the current control\n * to the control that should be queried for errors.\n * \n *
@usageNotes\n * For example, for the following `FormGroup`:\n * \n * ```\n * form = new FormGroup({\n *
address: new FormGroup({ street: new FormControl() })\n * });\n * ```\n * \n * The path to the 'street' control
from the root form would be 'address' -> 'street'.\n * \n * It can be provided to this method in one of two formats:\n
*\n * 1. An array of string control names, e.g. `['address', 'street']`\n * 1. A period-delimited list of control
names in one string, e.g. `address.street`\n * \n * @returns error data for that particular error. If the control or
error is not present,\n * null is returned.\n * \n * \n getError(errorCode: string, path?: Array<string|number>|string): any {\n
const control = path ? this.get(path)
: this;\n return control && control.errors ? control.errors[errorCode] : null;\n }\n\n /**\n * @description\n *
Reports whether the control with the given path has the error specified.\n * \n * @param errorCode The code of
the error to check\n * @param path A list of control names that designates how to move from the current control\n
* to the control that should be queried for errors.\n * \n * @usageNotes\n * For example, for the following
`FormGroup`:\n * \n * ```\n * form = new FormGroup({\n * address: new FormGroup({ street: new
FormControl() })\n * });\n * ```\n * \n * The path to the 'street' control from the root form would be 'address' ->
'street'.\n * \n * It can be provided to this method in one of two formats:\n * \n * 1. An array of string control
names, e.g. `['address', 'street']`\n * 1. A period-delimited list of control names in one string, e.g. `address.street`\n
*\n * If no path is given, this method checks for the error
on the current control.\n * \n * @returns whether the given error is present in the control at the given path.\n * \n
*\n * If the control is not present, false is returned.\n * \n * \n hasError(errorCode: string, path?:
Array<string|number>|string): boolean {\n return !!this.getError(errorCode, path);\n }\n\n /**\n * Retrieves the
top-level ancestor of this control.\n * \n * \n get root(): AbstractControl {\n let x: AbstractControl = this;\n\n while
(x._parent) {\n x = x._parent;\n }\n\n return x;\n }\n\n /** @internal *\n * \n _updateControlsErrors(emitEvent:
boolean): void {\n (this as {status: string}).status = this._calculateStatus();\n\n if (emitEvent) {\n
(this.statusChanges as EventEmitter<string>).emit(this.status);\n }\n\n if (this._parent) {\n
this._parent._updateControlsErrors(emitEvent);\n }\n }\n\n /** @internal *\n * \n _initObservables() {\n (this
as {valueChanges: Observable<any>}).valueChanges = new EventEmitter();\n
(this as {statusChanges: Observable<any>}).statusChanges = new EventEmitter();\n }\n\n\n private
_calculateStatus(): string {\n if (this._allControlsDisabled()) return DISABLED;\n if (this.errors) return
INVALID;\n if (this._anyControlsHaveStatus(PENDING)) return PENDING;\n if
(this._anyControlsHaveStatus(INVALID)) return INVALID;\n return VALID;\n }\n\n /** @internal *\n * \n
abstract _updateValue(): void;\n\n /** @internal *\n * \n abstract _forEachChild(cb: Function): void;\n\n /**
@internal *\n * \n abstract _anyControls(condition: Function): boolean;\n\n /** @internal *\n * \n abstract
_allControlsDisabled(): boolean;\n\n /** @internal *\n * \n abstract _syncPendingControls(): boolean;\n\n /**
@internal *\n * \n _anyControlsHaveStatus(status: string): boolean {\n return this._anyControls((control:
AbstractControl) => control.status === status);\n }\n\n /** @internal *\n * \n _anyControlsDirty(): boolean {\n
return this._anyControls((control: AbstractControl) => control.dirty);\n
}\n\n /** @internal *\n * \n _anyControlsTouched(): boolean {\n return this._anyControls((control:
AbstractControl) => control.touched);\n }\n\n /** @internal *\n * \n _updatePristine(opts: {onlySelf?: boolean} = {}):
void {\n (this as {pristine: boolean}).pristine = !this._anyControlsDirty();\n\n if (this._parent && !opts.onlySelf)
{\n this._parent._updatePristine(opts);\n }\n }\n\n /** @internal *\n * \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 * \n
_onDisabledChange: Function[] = [];\n\n /** @internal *\n * \n _isBoxedValue(formState: any): boolean {\n return

```



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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` and `disabled` keys are required in this case.\n  *\n  * ```ts\n  * const control = new
FormControl({ value: 'a', disabled: true });\n  * console.log(control.value); // '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  * control.reset('Drew');\n  * console.log(control.value); // 'Drew'\n  *
```\n  *\n  * ### Reset the control back to an initial value and disabled\n  *\n  * ```ts\n  * const control = new
FormControl('Nancy');\n  * console.log(control.value); // 'Nancy'\n  * console.log(control.status); // 'VALID'\n  *
control.reset({ value: 'Drew', disabled: true });\n  * console.log(control.value); // 'Drew'\n  *
console.log(control.status); // 'DISABLED'\n  * ```\n  *\n  * @publicApi\n  */\n export class FormControl extends
AbstractControl {\n   /** @internal */\n   _onChange: Function[] = [];\n   /** @internal */\n   _pendingValue:
any;\n   /** @internal */\n   _pendingChange: any;\n }\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   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     this._setUpdateStrategy(validatorOrOpts);\n     this.updateValueAndValidity({onlySelf: true, emitEvent: false});\n     this._initObservables();\n   }\n\n   /**\n    * Sets a new value for the form control.\n    *\n    * @param value The new
value for the control.\n    *\n    * @param options Configuration options that determine how the control propagates
changes\n    * and emits events when the value changes.\n    *\n    * The configuration

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options are passed to the `{ @link AbstractControl#updateValueAndValidity\n * updateValueAndValidity}` method.  
`\n * \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`` observables emit events with the latest status and value when the control value is updated.  
When false, no events are emitted.  
`\n * `emitModelToViewChange``: When true or not supplied (the default), each change triggers an `\n * `onChange`` event to `\n * update the view`.  
`\n * `emitViewToModelChange``: When true or not supplied (the default), each change triggers an `\n * `ngModelChange`` event to update the model.  
`\n * \n * ^\n setValue(value: any, options: {\n * onlySelf?: boolean,\n * emitEvent?: boolean,\n * emitModelToViewChange?: boolean,\n * emitViewToModelChange?: boolean\n * } = {}): void {\n * (this as {value: any}).value = this._pendingValue = value;\n * if (this._onChange.length && options.emitModelToViewChange !== false) {\n * this._onChange.forEach(\n * (changeFn) => changeFn(this.value, options.emitViewToModelChange !== false));\n * }\n * this.updateValueAndValidity(options);\n * }\n * \n * Patches the value of a control.  
\n * \n * 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 \n * `FormArrays`, where it does behave differently.  
\n * \n * @see `setValue` for options  
\n * ^\n patchValue(value: any, options: {\n * onlySelf?: boolean,\n * emitEvent?: boolean,\n * emitModelToViewChange?: boolean,\n * emitViewToModelChange?: boolean\n * } = {}): void {\n * this.setValue(value, options);\n * }\n * \n * Resets the form control, marking it `pristine` and `untouched`, and setting \n * the value to null.  
\n * \n * @param formState 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 after the value changes.  
\n * \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` observables emit events with the latest status and value when the control is reset.  
When false, no events are emitted.  
\n * \n * ^\n reset(formState: any = null, options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {\n * this._applyFormState(formState);\n * this.markAsPristine(options);\n * this.markAsUntouched(options);\n * this.setValue(this.value, options);\n * this._pendingChange = false;\n * }\n * \n * @internal\n * ^\n _updateValue() {\n * \n * @internal\n * ^\n _anyControls(condition: Function): boolean { return false; }\n * \n * @internal\n * ^\n _allControlsDisabled(): boolean { return this.disabled; }\n * \n * Register a listener for change events.  
\n * \n * @param fn The method that is called when the value changes  
\n * ^\n registerOnChange(fn: Function): void {\n * this._onChange.push(fn); }\n * \n * @internal\n * ^\n _clearChangeFns(): void {\n * this._onChange = [];\n * this._onDisabledChange = [];\n * this._onCollectionChange = () => {};\n * }\n * \n * Register a listener for disabled events.  
\n * \n * @param fn The method that is called when the disabled status changes.  
\n * ^\n registerOnDisabledChange(fn: (isDisabled: boolean) => void): void {\n * this._onDisabledChange.push(fn); }\n * }\n * \n * @internal\n * ^\n _forEachChild(cb: Function): void {\n * \n * @internal\n * ^\n _syncPendingControls(): boolean {\n * if (this.updateOn === 'submit') {\n * if (this._pendingDirty) this.markAsDirty();\n * if (this._pendingTouched) this.markAsTouched();\n * if (this._pendingChange) {\n * this.setValue(this._pendingValue, {onlySelf: true, emitModelToViewChange: false});\n * return true;\n * }\n * }\n * return false;\n * }\n * \n * private _applyFormState(formState: any) {\n * if (this._isBoxedValue(formState)) {\n * (this as {value: any}).value = this._pendingValue = formState.value;\n * formState.disabled ?\n * this.disable({onlySelf: true, emitEvent: false}) : this.enable({onlySelf: true, emitEvent: false});\n * } else {\n * (this as {value: any}).value = this._pendingValue = formState;\n * }\n * }\n * \n * Tracks the value and validity state of a group of `FormControl` instances.  
\n * \n * A `FormGroup` aggregates the values of each child `FormControl` into one object, \n * with each control name as the key. It calculates its status by reducing the status values \n * of its children. For example, if one of the controls in a group is invalid, the entire \n * group becomes invalid.  
\n * \n * `FormGroup` is one of the three fundamental building blocks used to define forms in Angular, \n * 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.

```

    * @usageNotes
    * ### Create a form group with 2
    controls
    * ```
    * const form = new FormGroup({
    *   first: new FormControl('Nancy',
    Validators.minLength(2)),
    *   last: new FormControl('Drew'),
    * });
    * console.log(form.value); // {first:
    'Nancy', last: 'Drew'}
    * console.log(form.status); // 'VALID'
    * ### Create a form group with a group-
    level validator
    * You include group-level validators as the second arg, or group-level async
    * validators as the third arg. These come in handy when you want to perform validation
    * that considers the value of
    more than one child control.
    * ```
    * const form = new FormGroup({
    *   password: new FormControl('',
    Validators.minLength(2)),
    *   passwordConfirm: new FormControl('', Validators.minLength(2)),
    * },
    passwordMatchValidator);
    * function passwordMatchValidator(g: FormGroup) {
    *   return
    g.get('password').value === g.get('passwordConfirm').value
    *   ? null : {'mismatch': true};
    * }
    * ```
    * Like `FormControl` instances, you choose to pass in
    * validators and async validators as part of an options
    object.
    * ```
    * const form = new FormGroup({
    *   password: new FormControl(''),
    *   passwordConfirm:
    new FormControl(''),
    * }, {
    validators: passwordMatchValidator,
    asyncValidators: otherValidator
    });
    * ```
    * ### 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.
    * ```
    * const c = new FormGroup({
    *   one: new FormControl(),
    * }, {
    updateOn: 'blur'
    });
    * ```
    * @publicApi
    * \nexport 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 or array of async validator functions
    * @param
    constructor(
    *   public controls: {[key: string]: AbstractControl},
    *   validatorOrOpts?:
    ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,
    *   asyncValidator?:
    AsyncValidatorFn|AsyncValidatorFn[]|null)
    {
    *   super(
    *     coerceToValidator(validatorOrOpts),
    *     coerceToAsyncValidator(asyncValidator,
    validatorOrOpts));
    *   this._initObservables();
    *   this._setUpdateStrategy(validatorOrOpts);
    *   this._setUpControls();
    *   this.updateValueAndValidity({onlySelf: true, emitEvent: false});
    * }
    * /**
    * Registers a control with the group's list of controls.
    * This method does not update the value or validity of
    the control.
    * Use {@link FormGroup#addControl addControl} instead.
    * @param name The control
    name to register in the collection
    * @param control Provides the control for the given name
    * \n
    registerControl(name: string, control: AbstractControl): AbstractControl {
    *   if (this.controls[name]) return
    this.controls[name];
    *   this.controls[name] = control;
    *   control.setParent(this);
    *   control._registerOnCollectionChange(this._onCollectionChange);
    *   return control;
    * }
    * /**
    * Add a control
    to this group.
    * \n
    * This method also updates the value and validity of the control.
    * @param name The control name
    to add to the collection
    * @param control Provides the control for the given name
    * \n
    addControl(name:
    string, control: AbstractControl): void {
    *   this.registerControl(name, control);
    *   this.updateValueAndValidity();
    *   this._onCollectionChange();
    * }
    * /**
    * Remove a control from this
    group.
    * @param name The control name to remove from the collection
    * \n
    removeControl(name:
    string): void {
    *   if (this.controls[name]) this.controls[name]._registerOnCollectionChange(() => {});
    *   delete
    (this.controls[name]);
    *   this.updateValueAndValidity();
    *   this._onCollectionChange();
    * }
    * /**
    * Replace an existing control.
    * @param name The control name to replace in the collection
    * @param
    control Provides the control for the given name
    * \n
    setControl(name: string, control: AbstractControl): void {
    *   if (this.controls[name]) this.controls[name]._registerOnCollectionChange(() => {});
    *   delete
    (this.controls[name]);
    *   if (control) this.registerControl(name, control);
    *   this.updateValueAndValidity();
    * }
    * }
    
```

```

this._onCollectionChange();\n }\n\n /**\n * Check whether there is an enabled control with the given name in the
group.\n *\n * Reports false for disabled controls. If you'd like to check for existence in the group\n * only, use
{@link AbstractControl#get get} instead.\n *\n * @param controlName The control name to check for existence
in the collection\n *\n * @returns false for disabled controls, true otherwise.\n */\n contains(controlName:
string): boolean {\n return this.controls.hasOwnProperty(controlName) && this.controls[controlName].enabled;\n
}\n\n /**\n * Sets the value of the `FormGroup`. It accepts an object that matches\n * the structure of the group,
with control names as keys.\n *\n * @usageNotes\n * ### Set the complete value
for the form group\n *\n * ```\n * const form = new FormGroup({\n * first: new FormControl(),\n * last:
new FormControl()\n * });\n *\n * console.log(form.value); // {first: null, last: null}\n *\n *
form.setValue({first: 'Nancy', last: 'Drew'});\n *\n * console.log(form.value); // {first: 'Nancy', last: 'Drew'}\n *
```\n *\n * @throws When strict checks fail, such as setting the value of a control\n * that doesn't exist or if you
exclude a value of a control that does exist.\n *\n * @param value The new value for the control that matches the
structure of the group.\n * @param options Configuration options that determine how the control propagates
changes\n * and emits events after the value changes.\n * The configuration options are passed to the {@link
AbstractControl#updateValueAndValidity\n * updateValueAndValidity} method.\n *\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 value is updated.\n *
When false, no events are emitted.\n *\n * setValue(value: {[key: string]: any}, options: {onlySelf?: boolean,
emitEvent?: boolean} = {}):\n void {\n this._checkAllValuesPresent(value);\n
Object.keys(value).forEach(name => {\n this._throwIfControlMissing(name);\n
this.controls[name].setValue(value[name], {onlySelf: true, emitEvent: options.emitEvent});\n });\n
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 *\n * console.log(form.value); // {first: null, last: null}\n *\n * form.patchValue({first:
'Nancy'});\n *\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
*\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}
updateValueAndValidity} method.
    @usageNotes
    ### Reset the form group values
    ts
    const form = new FormGroup({
      first: new FormControl('first name'),
      last: new FormControl('last name')
    });
    console.log(form.value); // {first: 'first name', last: 'last name'}
    form.reset({ first: 'name', last: 'last name' });
    console.log(form.value); // {first: 'name', last: 'last name'}
    ### Reset the form group values and disabled status
    ts
    const form = new FormGroup({
      first: new FormControl('first name'),
      last: new FormControl('last name')
    });
    form.reset({
      first: {value: 'name', disabled: true},
      last: 'last'
    });
    console.log(this.form.value); // {first: 'name', last: 'last name'}
    console.log(this.form.get('first').status); // 'DISABLED'
    reset(value: any = {}, options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void
    this._forEachChild((control: AbstractControl, name: string) => {
      control.reset(value[name], {onlySelf: true, emitEvent: options.emitEvent});
    });
    this._updatePristine(options);
    this._updateTouched(options);
    this.updateValueAndValidity(options);
  }
  /**
   * The aggregate value of the `FormGroup`, including any disabled controls.
   * Retrieves all values regardless of disabled status.
   * The `value` property is the best way to get the value of the group, because it excludes disabled controls in the `FormGroup`.
   * getRawValue(): any
   return this._reduceChildren({}, (acc: {[k: string]: AbstractControl}, control: AbstractControl, name: string) => {
      acc[name] = control instanceof FormControl ? control.value : (<any>control).getRawValue();
      return acc;
    });
  }
  @internal
  _syncPendingControls(): boolean
  let subtreeUpdated = this._reduceChildren(false, (updated: boolean, child: AbstractControl) => {
    return child._syncPendingControls() ? true : updated;
  });
  if (subtreeUpdated) this.updateValueAndValidity({onlySelf: true});
  return subtreeUpdated;
}
  @internal
  _throwIfControlMissing(name: string): void
  if (!Object.keys(this.controls).length) {
    throw new Error(`There are no form controls registered with this group yet. If you're using ngModel, you may want to check next tick (e.g. use setTimeout).`);
  }
  if (!this.controls[name]) {
    throw new Error(`Cannot find form control with name: ${name}.`);
  }
}
  @internal
  _forEachChild(cb: (v: any, k: string) => void): void
  Object.keys(this.controls).forEach(k => cb(this.controls[k], k));
}
  @internal
  _setUpControls(): void
  this._forEachChild((control: AbstractControl) => {
    control.setParent(this);
    control._registerOnCollectionChange(this._onCollectionChange);
  });
}
  @internal
  _updateValue(): void
  (this as {value: any}).value = this._reduceValue();
}
  @internal
  _anyControls(condition: Function): boolean
  let res = false;
  this._forEachChild((control: AbstractControl, name: string) => {
    res = res || (this.contains(name) && condition(control));
  });
  return res;
}
  @internal
  _reduceValue()
  return this._reduceChildren({}, (acc: {[k: string]: AbstractControl}, control: AbstractControl, name: string) => {
    if (control.enabled || this.disabled) {
      acc[name] = control.value;
    }
    return acc;
  });
}
  @internal
  _reduceChildren(initValue: any, fn: Function)
  let res = initValue;
  this._forEachChild((control: AbstractControl, name: string) => {
    res = fn(res, control, name);
  });
  return res;
}
  @internal
  _allControlsDisabled(): boolean
  for (const controlName of Object.keys(this.controls)) {
    if (this.controls[controlName].enabled) {
      return false;
    }
  }
  return Object.keys(this.controls).length > 0 || this.disabled;
}
  @internal
  _checkAllValuesPresent(value: any): void
  this._forEachChild((control: AbstractControl, name: string) => {
    if (value[name] === undefined) {
      throw new Error(`Must supply a value for form control with name: '${name}'.`);
    }
  });
}
  /**
   * Tracks the value and validity state of an array of `FormControl`, `FormGroup` or `FormArray` instances.
   * A `FormArray` aggregates the values of each child `FormControl` into an array.
   * It calculates its status by reducing the status values of its children. For example, if one of the controls in a `FormArray` is invalid, the entire array becomes invalid.
   * `FormArray` is one of the three fundamental building blocks used to define forms in Angular, along with `FormControl` and `FormGroup`.
   * @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.
The two types of validators
are passed in separately as the second and third arg
respectively, or together as part of an options object.

const arr = new FormArray([
  new FormControl('Nancy'),
  new FormControl('Drew')
],
{validators: myValidator, asyncValidators: myAsyncValidator});

### Set the updateOn property for
all controls in a form array
The options object is used to set a default value for each child
control's
`updateOn` property. If you set `updateOn` to `blur` at the
array level, all child controls default to `blur`, unless
the child
has explicitly specified a different `updateOn` value.

const arr = new FormArray([
  new FormControl(),
  {updateOn: 'blur'}
]);

### Adding or removing controls from a form array
To change the controls in the array, use the `push`,
`insert`, `removeAt` or `clear` methods
in `FormArray` itself. These methods ensure the controls are properly
tracked in the
form's hierarchy. Do not modify the array of `AbstractControl`s used to instantiate
the
`FormArray` directly, as that result in strange and unexpected behavior such
as broken change detection.

@api
export class FormArray extends AbstractControl {
  /**
   * Creates a new `FormArray`
   * instance.
   * @param controls An array of child controls. Each child control is given an index
   * where it is
   * registered.
   * @param validatorOrOpts A synchronous validator function, or an array of
   * such functions,
   * or an `AbstractControlOptions` object that contains validation functions
   * and a validation trigger.
   * @param asyncValidator A single async validator or array of async validator
   * functions
   */
  constructor(
    public controls: AbstractControl[],
    validatorOrOpts?:
      ValidatorFn | ValidatorFn[] | AbstractControlOptions | null,
    asyncValidator?:
      AsyncValidatorFn | AsyncValidatorFn[] | null
  ) {
    super(
      coerceToValidator(validatorOrOpts),
      coerceToAsyncValidator(asyncValidator, validatorOrOpts)
    );
    this._initObservables();
    this._setUpdateStrategy(validatorOrOpts);
    this._setUpControls();
    this.updateValueAndValidity({onlySelf:
true, emitEvent: false});
  }

  /**
   * Get the `AbstractControl` at the given `index` in the array.
   * @param index Index in the array to retrieve the control
   */
  at(index: number): AbstractControl {
    return
this.controls[index];
  }

  /**
   * Insert a new `AbstractControl` at the end of the array.
   * @param control
   * Form control to be inserted
   */
  push(control: AbstractControl): void {
    this.controls.push(control);
    this._registerControl(control);
    this.updateValueAndValidity();
    this._onCollectionChange();
  }

  /**
   * Insert a new `AbstractControl` at the given `index` in the array.
   * @param index Index in the array to insert the control
   * @param control Form control to be inserted
   */
  insert(index: number, control: AbstractControl): void {
    this.controls.splice(index, 0, control);
    this._registerControl(control);
    this.updateValueAndValidity();
  }

  /**
   * Remove the control at the given
   * `index` in the array.
   * @param index Index in the array to remove the control
   */
  removeAt(index:
number): void {
    if (this.controls[index])
this.controls[index]._registerOnCollectionChange(() => {});
    this.controls.splice(index, 1);
    this.updateValueAndValidity();
  }

  /**
   * Replace an existing control.
   * @param index Index in the array to replace the control
   * @param control The `AbstractControl` control to
replace the existing control
   */
  setControl(index:
number, control: AbstractControl): void {
    if (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
value of a control.
   */
  @usageNotes
  ### Set the values for the controls in the form array
  const arr = new

```

```

FormArray([\n * new FormControl(),\n * new FormControl()\n * ]);\n * console.log(arr.value);
// [null, null]\n * \n * arr.setValue(['Nancy', 'Drew']);\n * console.log(arr.value); // ['Nancy', 'Drew']\n * ```\n
*\n * @param value Array of values for the controls\n * @param options Configure options that determine how
the control propagates changes and\n * emits events after the value changes\n * \n * * `onlySelf`: When true,
each change only affects this control, and not its parent. Default\n * is 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 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 setValue(value: any[], options: {onlySelf?: boolean, emitEvent?:
boolean} = {}): void {\n this._checkAllValuesPresent(value);\n value.forEach((newValue:
any, index: number) => {\n this._throwIfControlMissing(index);\n this.at(index).setValue(newValue,
{onlySelf: true, emitEvent: options.emitEvent});\n });\n this.updateValueAndValidity(options);\n })\n\n /**\n
* Patches the value of the `FormArray`. It accepts an array that matches the\n * structure of the control, and does
its best to match the values to the correct\n * controls in the group.\n * \n * It accepts both super-sets and sub-sets
of the array without throwing an error.\n * \n * @usageNotes\n * ### Patch the values for controls in a form
array\n * \n * ```\n * const arr = new FormArray([\n * new FormControl(),\n * new FormControl()\n *
]);\n * console.log(arr.value); // [null, null]\n * \n * arr.patchValue(['Nancy']);\n * console.log(arr.value); //
['Nancy', null]\n * ```\n * \n * @param value Array of latest values for the controls\n * @param options
Configure options that determine how the control propagates
changes and\n * emits events after the value changes\n * \n * * `onlySelf`: When true, each change only affects
this control, and not its parent. Default\n * is 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 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: any[], options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {\n
value.forEach((newValue: any, index: number) => {\n if (this.at(index)) {\n
this.at(index).patchValue(newValue, {onlySelf: true, emitEvent: options.emitEvent});\n }
})\n });\n this.updateValueAndValidity(options);\n })\n\n /**\n * Resets the `FormArray` and all descendants are marked
`pristine` and `untouched`,
and the\n * value of all descendants to null or null maps.\n * \n * You reset to a specific form state by passing in
an array of states\n * that matches the structure of the control. The state is a standalone value\n * or a form state
object with both a value and a disabled status.\n * \n * @usageNotes\n * ### Reset the values in a form array\n
*\n * ```\n * const arr = new FormArray([\n * new FormControl(),\n * new FormControl()\n * ]);\n *
arr.reset(['name', 'last name']);\n * \n * console.log(this.arr.value); // ['name', 'last name']\n * ```\n * \n * ###
Reset the values in a form array and the disabled status for the first control\n * \n * ```\n * this.arr.reset([\n
* {value: 'name', disabled: true},\n * 'last'\n * ]);\n * \n * console.log(this.arr.value); // ['name', 'last name']\n
* console.log(this.arr.get(0).status); // 'DISABLED'\n * ```\n * \n * @param value Array of values for the
controls\n * @param
options Configure options that determine how the control propagates changes and\n * emits events after the value
changes\n * \n * * `onlySelf`: When true, each change only affects this control, and not its parent. Default\n * is
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
reset(value: any = [],
options: {onlySelf?: boolean, emitEvent?: boolean} = {}): void {\n this._forEachChild((control: AbstractControl,
index: number) => {\n control.reset(value[index], {onlySelf: true, emitEvent: options.emitEvent});\n
});\n this._updatePristine(options);\n this._updateTouched(options);\n this.updateValueAndValidity(options);\n

```

```

    }
  }

  /**
   * The aggregate value of the array, including any disabled controls.
   * Reports all values regardless of disabled status.
   * For enabled controls only, the `value` property is the best way to get the value of the array.
   */
  getRawValue(): any[] {
    return this.controls.map((control: AbstractControl) => {
      return control instanceof FormControl ? control.value : (<any>control).getRawValue();
    });
  }

  /**
   * Remove all controls in the `FormArray`.
   * @usageNotes
   * ### Remove all elements from a FormArray
   * ```ts
   * const arr = new FormArray([
   *   new FormControl(),
   *   new FormControl()
   * ]);
   * console.log(arr.length); // 2
   * arr.clear();
   * console.log(arr.length); // 0
   * ```
   * It's a simpler and more efficient alternative to removing all elements one by one:
   * ```ts
   * const arr = new FormArray([
   *   new FormControl(),
   *   new FormControl()
   * ]);
   * while (arr.length) {
   *   arr.removeAt(0);
   * }
   * ```
   */
  clear(): void {
    if (this.controls.length < 1) return;
    this._forEachChild((control: AbstractControl) => control._registerOnCollectionChange(() => {}));
    this.controls.splice(0);
    this.updateValueAndValidity();
  }

  /**
   * @internal
   */
  _syncPendingControls(): boolean {
    let subtreeUpdated = this.controls.reduce((updated: boolean, child: AbstractControl) => {
      return child._syncPendingControls() ? true : updated;
    }, false);
    if (subtreeUpdated) this.updateValueAndValidity({onlySelf: true});
    return subtreeUpdated;
  }

  /**
   * @internal
   */
  _throwIfControlMissing(index: number): void {
    if (!this.controls.length) {
      throw new Error(`There are no form controls registered with this array yet. If you're using ngModel, you may want to check next tick (e.g. use setTimeout).`);
    }
    if (!this.at(index)) {
      throw new Error(`Cannot find form control at index ${index}`);
    }
  }

  /**
   * @internal
   */
  _forEachChild(cb: Function): void {
    this.controls.forEach((control: AbstractControl, index: number) => {
      cb(control, index);
    });
  }

  /**
   * @internal
   */
  _updateValue(): void {
    (this as {value: any}).value = this.controls.filter((control) => control.enabled || this.disabled).map((control) => control.value);
  }

  /**
   * @internal
   */
  _anyControls(condition: Function): boolean {
    return this.controls.some((control: AbstractControl) => control.enabled && condition(control));
  }

  /**
   * @internal
   */
  _setUpControls(): void {
    this._forEachChild((control: AbstractControl) => this._registerControl(control));
  }

  /**
   * @internal
   */
  _checkAllValuesPresent(value: any): void {
    this._forEachChild((control: AbstractControl, i: number) => {
      if (value[i] === undefined) {
        throw new Error(`Must supply a value for form control at index: ${i}.`);
      }
    });
  }

  /**
   * @internal
   */
  _allControlsDisabled(): boolean {
    for (const control of this.controls) {
      if (control.enabled) return false;
    }
    return this.controls.length > 0 || this.disabled;
  }

  private _registerControl(control: AbstractControl) {
    control.setParent(this);
    control._registerOnCollectionChange(this._onCollectionChange);
  }
}

/**
 * @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 {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 `` 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 `NgFormGroup` to create sub-groups within the form. If necessary, listen to the directive's `ngSubmit` event to be notified when the user has triggered a form submission. The `ngSubmit` event emits the original form submission event. In template driven forms, all `<form>` tags are automatically tagged as `NgForm`. To import the `FormsModule` but skip its usage in some forms, for example, to use native HTML5 validation, add the `ngNoForm` and the `<form>` tags won't create an `NgForm` directive. In reactive forms, using `ngNoForm` is unnecessary because the `<form>` tags are inert. In that case, you would refrain from using the `FormGroup` directive.

`@usageNotes` `### Listening for form submission`

The following example shows how to capture the form values from the `"ngSubmit"` event.

`@example`

forms/ts/simpleForm/simple\_form\_example.ts region='Component'

`### Setting the update options`

The following example shows you how to change the `"updateOn"` option from its default using `ngFormOptions`.

```

<form [ngFormOptions]="{updateOn: 'blur'}">
  <input name="one"
  ngModel> <!-- this ngModel will update on blur -->
</form>

```

`### Native DOM validation UI`

In order to prevent the native DOM form validation UI from interfering with Angular's form validation, Angular automatically adds the `novalidate` attribute on any `<form>` whenever `FormsModule` 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:

```

<form ngNativeValidate> ... </form>

```

`@NgModule` `FormsModule` `@publicApi` `^` `@Directive` (`{` `selector:` `'form:not([ngNoForm]):not([formGroup]),ng-form,[ngForm]',` `providers:` `[formDirectiveProvider],` `host:` `{` `'(submit)': 'onSubmit($event)',` `'(reset)': 'onReset()'}` `,` `outputs:` `['ngSubmit'],` `exportAs:` `'ngForm'` `})` `export` `class NgForm` `extends` `ControlContainer` `implements` `Form` `,` `AfterViewInit` `{` `/**` `* @description` `* Returns whether the form submission has been triggered.` `*` `public` `readonly` `submitted:` `boolean` `=` `false` `;` `private` `_directives:` `NgModel[]` `=` `[]` `;` `/**` `* @description` `* The `FormGroup` instance created for this form.` `*/` `form:` `FormGroup` `;` `/**` `* @description` `* Event emitter for the "ngSubmit" event` `*/` `ngSubmit` `=` `new` `EventEmitter` `()` `;` `/**` `* @description` `* Tracks options for the `NgForm` instance.` `*/` `updateOn` `?:` `UpdateStrategy` `;` `/**` `* @description` `* Sets the default `updateOn` value for all child `NgModels` below it unless explicitly set by a child `NgModel` using `ngModelOptions`.` `*/` `updateOn` `?:` `UpdateStrategy` `;` `/**` `* @description` `* Possible values: `change` | `blur` | `submit`.` `*/` `updateOn` `?:` `UpdateStrategy` `;` `/**` `* @description` `* The internal `FormGroup` instance.` `*/` `formGroup` `?:` `FormGroup` `;` `/**` `* @description` `* Lifecycle method called after the view is initialized. For internal use only.` `*/` `ngAfterViewInit` `()` `{` `this._setUpdateStrategy` `()` `;` `/**` `* @description` `* The directive instance.` `*/` `ngForm` `?:` `NgForm` `;` `/**` `* @description` `* The internal `FormGroup` instance.` `*/` `formGroup` `?:` `FormGroup` `;` `/**` `* @description` `* Returns an array representing the path to this group. Because this directive always lives at the top level of a form, it is always an empty array.` `*/` `getPath` `()` `:` `string[]` `{` `return` `[]` `;` `/**` `* @description` `* Returns a map of the controls in this group.` `*/` `getControls` `()` `:` `{` `[key:` `string]` `:` `AbstractControl` `}` `{` `return` `this.form.controls` `;` `/**` `* @description` `* Method that sets up the control directive in this group, re-calculates its value and validity, and adds the instance to the internal list of directives.` `*/` `addControl` `(dir:` `NgModel)` `:` `void` `{` `resolvedPromise` `.then` `()` `=>` `{` `const` `container` `=` `this._findContainer` `(dir.path)` `;` `(dir` `as` `{` `control:` `FormControl` `}).control` `=` `container.registerControl` `(dir.name,` `dir.control)` `;` `dir.control.updateValueAndValidity` `({` `emitEvent` `:` `true` `})` `;` `}` `}` `}` `}`

```

false});\n  this._directives.push(dir);\n  });\n  }\n  }\n  /**\n   * @description\n   * Retrieves the `FormControl` instance from the provided `NgModel` directive.\n   * \n   * @param dir The `NgModel` directive instance.\n   * \n   * @return <FormControl>this.form.get(dir.path); }\n  }\n  /**\n   * @description\n   * Removes the `NgModel` instance from the internal list of directives\n   * \n   * @param dir The `NgModel` directive instance.\n   * \n   * @return void {\n    resolvedPromise.then(() => {\n      const container = this._findContainer(dir.path);\n      if (container) {\n        container.removeControl(dir.name);\n      }\n      removeDir<NgModel>(this._directives, dir);\n    });\n  }\n  }\n  /**\n   * @description\n   * Adds a new `NgModelGroup` directive instance to the form.\n   * \n   * @param dir The `NgModelGroup` directive instance.\n   * \n   * @return void {\n    resolvedPromise.then(() => {\n      const container = this._findContainer(dir.path);\n      const group = new FormGroup({});\n      setUpFormContainer(group, dir);\n      container.registerControl(dir.name, group);\n      group.updateValueAndValidity({emitEvent: false});\n    });\n  }\n  }\n  /**\n   * @description\n   * Removes the `NgModelGroup` directive instance from the form.\n   * \n   * @param dir The `NgModelGroup` directive instance.\n   * \n   * @return void {\n    resolvedPromise.then(() => {\n      const container = this._findContainer(dir.path);\n      if (container) {\n        container.removeControl(dir.name);\n      }\n    });\n  }\n  }\n  /**\n   * @description\n   * Retrieves the `FormGroup` for a provided `NgModelGroup` directive instance.\n   * \n   * @param dir The `NgModelGroup` directive instance.\n   * \n   * @return <FormGroup>this.form.get(dir.path); }\n  }\n  /**\n   * Sets the new value for the provided `NgControl` directive.\n   * \n   * @param dir The `NgControl` directive instance.\n   * \n   * @param value The new value for the directive's control.\n   * \n   * @return 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   * @return void { this.control.setValue(value); }\n  }\n  /**\n   * @description\n   * Method called when the `submit` event is triggered on the form.\n   * \n   * Triggers the `ngSubmit` emitter to emit the `submit` event as its payload.\n   * \n   * @param $event The `submit` event object.\n   * \n   * @return boolean {\n    (this as {submitted: boolean}).submitted = true;\n  }\n  }\n  syncPendingControls(this.form, this._directives);\n  this.ngSubmit.emit($event);\n  return false;\n  }\n  }\n  /**\n   * @description\n   * Method called when the `reset` event is triggered on the form.\n   * \n   * @return void {\n    this.resetForm();\n  }\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   * @return 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   * @return <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 found in the LICENSE file at https://angular.io/license\n  }\n  }\n  import { OnDestroy, OnInit } from '@angular/core';\n  import { FormGroup } from '../model';\n  import { ControlContainer } from './control_container';\n  import { Form } from './form_interface';\n  import { composeAsyncValidators, composeValidators, controlPath } from './shared';\n  import { AsyncValidatorFn, ValidatorFn } from './validators';\n  /**\n   * @description\n   * A base class for code shared between the `NgModelGroup` and `FormGroupName` directives.\n   * \n   * @publicApi\n   * \n   * @export 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   * @description\n   * An array of synchronous validators for the group.\n   * \n   * @internal\n   * \n   * // TODO(issue/24571): remove '!'.\n   * _validators!: any[];\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!.addGroup(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 {\n
return this.formDirective!.getFormGroup(this);\n }\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", /**\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    ${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\"\n
name=\"first\">\n\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,\n
NG_VALIDATORS} from './validators';\n\nimport {AbstractFormGroupDirective} from
'./abstract_form_group_directive';\n\nimport {ControlContainer} from './control_container';\n\nimport {NgForm} from
'./ng_form';\n\nimport {TemplateDrivenErrors} from './template_driven_errors';\n\nexport const modelGroupProvider:
any = {\n provide: ControlContainer,\n useExisting: forwardRef(() => NgModelGroup)\n};\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 */\n * Use this directive to validate a sub-group of your form
separately from the\n * rest of your form, or if some values in your domain model make more sense\n * to consume
together in a nested object.\n */\n * Provide a name for the sub-group and it will become the key\n * for the sub-
group in the form's full value. If you need direct access, export the directive into\n * a local template variable using
`ngModelGroup` (ex:

```



region='Component')\n \* \n \* When using the `ngModel` within `` tags, you'll also need to supply a `name` attribute\n \* so that the control can be registered with the parent form under that name.\n \* \n \* In the context of a parent form, it's often unnecessary to include one-way or two-way binding, \n \* as the parent form syncs the value for you. You access its properties by exporting it into a \n \* local template variable using `ngForm` such as (`#f="ngForm"`). Use the variable where \n \* needed on form submission.\n \* \n \* If you do need to populate initial values into your form, using a one-way binding for\n \* `ngModel` tends to be sufficient as long as you use the exported form's value rather\n \* than the domain model's value on submit.\n \* \n \* ### Using ngModel within a form\n \* \n \* The following example shows controls using `ngModel` within a form:\n \* \n \* { @example forms/ts/simpleForm/simple\_form\_example.ts region='Component'}\n \* \n \* ### Using a standalone ngModel within

a group\n \* \n \* The following example shows you how to use a standalone ngModel control\n \* within a form.

This controls the display of the form, but doesn't contain form data.\n \* \n \* ```html\n \* <form>\n \* <input name="login" ngModel placeholder="Login">\n \* <input type="checkbox" ngModel [ngModelOptions]="{standalone: true}"> Show more options?\n \* </form>\n \* <!-- form value: {login: " } -->\n \* ```\n \* \n \* ### Setting the ngModel name attribute through options\n \* \n \* The following example shows you an alternate way to set the name attribute. The name attribute is used\n \* within a custom form component, and the name `@Input` property serves a different purpose.\n \* \n \* ```html\n \* <form>\n \* <my-person-control name="Nancy" ngModel [ngModelOptions]="{name: 'user'}">\n \* </my-person-control>\n \* </form>\n \* <!-- form value: {user: " } -->\n \* ```\n \* \n \* @ngModule FormsModule\n \* @publicApi\n \* ^\n \* @Directive({\n \* selector: '[ngModel]:not([formControlName]):not([formControl])',\n \* providers: [formControlBinding],\n \* exportAs: 'ngModel'\n \* })\n \* export class NgModel extends NgControl implements OnChanges,\n \* OnDestroy {\n \* public readonly control: FormControl = new FormControl();\n \* \n \* // At runtime we coerce arbitrary values assigned to the "disabled" input to a "boolean".\n \* // This is not reflected in the type of the property because outside of templates, consumers\n \* // should only deal with booleans. In templates, a string is allowed for convenience and to\n \* // match the native "disabled attribute" semantics which can be observed on input elements.\n \* // This static member tells the compiler that values of type "string" can also be assigned\n \* // to the input in a template.\n \* @nodoc \*\n \* static ngAcceptInputType\_isDisabled: boolean|string;\n \* \n \* //\*\* @internal \*\n \* \_registered = false;\n \* \n \* //\*\*\n \* @description\n \* Internal reference to the view model value.\n \* \*\n \* viewModel: any;\n \* \n \* //\*\*\n \* @description\n \* Tracks the name bound to the directive. The parent form\n \* uses this name as a key to retrieve this control's value.\n \* \*\n \* // TODO(issue/24571): remove '!.\n \* @Input() name!: string;\n \* \n \* //\*\*\n \* @description\n \* Tracks whether the control is disabled.\n \* \*\n \* // TODO(issue/24571): remove '!.\n \* @Input('disabled') isDisabled!: boolean;\n \* \n \* //\*\*\n \* @description\n \* Tracks the value bound to this directive.\n \* \*\n \* @Input('ngModel') model: any;\n \* \n \* //\*\*\n \* @description\n \* Tracks the configuration options for this `ngModel` instance.\n \* \*\n \* \*\*name\*\*: An alternative to setting the name attribute on the form control element. See\n \* the

[example](api/forms/NgModel#using-ngmodel-on-a-standalone-control) for using `NgModel`\n \* as a standalone control.\n \* \n \* \*\*standalone\*\*: When set to true, the `ngModel` will not register itself with its parent form,\n \* and acts as if it's not in the form. Defaults to false.\n \* \n \* \*\*updateOn\*\*: Defines the event upon which the form control value and validity update.\n \* Defaults to 'change'. Possible values: 'change' | 'blur' | 'submit'.\n \* \n \* // TODO(issue/24571): remove '!.\n \* @Input('ngModelOptions')\n \* options!: {name?: string, standalone?: boolean, updateOn?: FormHooks};\n \* \n \* //\*\*\n \* @description\n \* Event emitter for producing the `ngModelChange` event after\n \* the view model updates.\n \* \*\n \* @Output('ngModelChange') update = new EventEmitter();\n \* \n \* constructor(@Optional() @Host() parent: ControlContainer,\n \* @Optional() @Self() @Inject(NG\_VALIDATORS) validators: Array<Validator|ValidatorFn>,\n \* @Optional() @Self() @Inject(NG\_ASYNC\_VALIDATORS) asyncValidators: Array<AsyncValidator|AsyncValidatorFn>,\n \* @Optional() @Self() @Inject(NG\_VALUE\_ACCESSOR)\n \* valueAccessors: ControlValueAccessor[]) {\n \* super();\n \* this.\_parent = parent;\n \* this.\_rawValidators = validators

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    | [];\n        this._rawAsyncValidators = asyncValidators || [];\n        this.valueAccessor =
selectValueAccessor(this, valueAccessors);\n        }\n\n        /**\n        * @description\n        * A
lifecycle method called when the directive's inputs change. For internal use\n        * only.\n        *\n
* @param changes A object of key/value pairs for the set of changed inputs.\n        *\n
ngOnChanges(changes: SimpleChanges) {\n        this._checkForErrors();\n        if (!this._registered)
this._setUpControl();\n        if ('isDisabled' in changes) {\n        this._updateDisabled(changes);\n
}\n\n        if (isPropertyUpdated(changes, this.viewModel)) {\n        this._updateValue(this.model);\n
this.viewModel = this.model;\n        }\n        }\n\n        /**\n        * @description\n
* Lifecycle method called before the directive's instance is destroyed. For internal\n        * use only.\n
*^\n        ngOnDestroy(): void { this.formDirective && this.formDirective.removeControl(this); }\n\n
/**\n        * @description\n        * Returns an array that represents the path from the top-level form to
this control.\n        * Each index is the string name of the control on that level.\n        *^\n        get path():
string[] {\n        return this._parent ? controlPath(this.name, this._parent) : [this.name];\n        }\n\n
/**\n        * @description\n        * The top-level directive for this control if present, otherwise null.\n
*^\n        get formDirective(): any { return this._parent ? this._parent.formDirective : null; }\n\n
/**\n        * @description\n        * Synchronous validator function
composed of all the synchronous validators\n        * registered with this directive.\n        *^\n        get
validator(): ValidatorFn|null { return composeValidators(this._rawValidators); }\n\n        /**\n        *
@description\n        * Async validator function composed of all the async validators registered with this\n
* directive.\n        *^\n        get asyncValidator(): AsyncValidatorFn|null {\n        return
composeAsyncValidators(this._rawAsyncValidators);\n        }\n\n        /**\n        * @description\n
* Sets the new value for the view model and emits an `ngModelChange` event.\n        *\n        * @param
newValue The new value emitted by `ngModelChange`.\n        *^\n        viewToModelUpdate(newValue:
any): void {\n        this.viewModel = newValue;\n        this.update.emit(newValue);\n        }\n\n
private _setUpControl(): void {\n        this._setUpdateStrategy();\n        this._isStandalone() ?
this._setUpStandalone() :\n        this.formDirective.addControl(this);\n        this._registered
= true;\n        }\n\n        private _setUpdateStrategy(): void {\n        if (this.options &&
this.options.updateOn !== null) {\n        this.control._updateOn = this.options.updateOn;\n        }\n
}\n\n        private _isStandalone(): boolean {\n        return !this._parent || !(this.options &&
this.options.standalone);\n        }\n\n        private _setUpStandalone(): void {\n
setUpControl(this.control, this);\n        this.control.updateValueAndValidity({ emitEvent: false });\n
}\n\n        private _checkForErrors(): void {\n        if (!this._isStandalone()) {\n
this._checkParentType();\n
        }\n        this._checkName();\n        }\n\n        private _checkParentType(): void {\n        if
(!(this._parent instanceof NgModelGroup) &&\n        this._parent instanceof AbstractFormGroupDirective)
{\n        TemplateDrivenErrors.formGroupNameException();\n        } else if (\n        !(this._parent
instanceof NgModelGroup) && !(this._parent instanceof NgForm)) {\n
TemplateDrivenErrors.modelParentException();\n        }\n        }\n\n        private _checkName(): void
{\n        if (this.options && this.options.name) this.name = this.options.name;\n\n        if
(!this._isStandalone() && !this.name) {\n        TemplateDrivenErrors.missingNameException();\n
}\n        }\n\n        private _updateValue(value: any): void {\n        resolvedPromise.then(\n
() => { this.control.setValue(value,\n        { emitViewToModelChange: false }); });\n        }\n\n        private _updateDisabled(changes: SimpleChanges)
{\n        const disabledValue = changes['isDisabled'].currentValue;\n        const isDisabled =\n
disabledValue === " || (disabledValue && disabledValue !== 'false');\n\n        resolvedPromise.then(() => {\n
        if (isDisabled && !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 * @license\n * Copyright Google Inc. All Rights Reserved.\n *^\n * Use of this source code is

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```

import {Directive} from '@angular/core';
/**
 * Adds `novalidate` attribute to all forms
 *
 * by default. `novalidate` is used to disable browser's native form validation. If you want to use native validation with Angular forms, just add `ngNativeValidate` attribute:
 * <form ngNativeValidate></form>
 * @publicApi
 * @ngModule ReactiveFormsModule
 * @ngModule FormsModule
 * @Directive({
 *   selector: 'form:not([ngNoForm]):not([ngNativeValidate])',
 *   host: {
 *     'novalidate': ''
 *   })
 * export class NgNoValidate {
 * }
 * export {NgNoValidate 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.
 *
 * @example forms/ts/simpleFormControl/simple_form_control_example.ts region='Component'
 *
 * ### Use with ngModel
 *
 * Support for using the `ngModel` input property and `ngModelChange` event with reactive form directives has been deprecated in Angular v6 and will be removed in a future version of Angular.
 *
 * Now deprecated:
 *
 * <input [formControl]="control" [(ngModel)]="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/setting the value and intercepting value events. However, some of `ngModel`'s other features - like delaying updates with `ngModelOptions` or exporting the directive - simply don't work, which has understandably caused some confusion.
 *
 * In addition, this pattern mixes template-driven and reactive forms strategies, which we generally don't recommend because it doesn't take advantage of the full benefits of either strategy. Setting the value in the template violates the template-agnostic principles behind reactive forms, whereas adding a `FormControl`/`FormGroup` layer in the class removes the convenience of defining forms in the template.
 *
 * To update your code before support is removed, you'll want to decide whether to stick with reactive form directives (and get/set values using reactive forms patterns) or switch over to template-driven directives.
 *
 * After (choice 1 - use reactive forms):
 *
 * <input [formControl]="control">
 *
 * this.control.setValue('some value');
 *
 * After (choice 2 - use template-driven forms):
 *
 * <input [(ngModel)]="value">
 *
 * 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:
 *
 * 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.\n *\n * @ngModule ReactiveFormsModule\n * @publicApi\n *\n @Directive({ selector: '[formControl]',
providers: [formControlBinding], exportAs: 'ngForm'})\n\nexport class FormControlDirective extends NgControl
implements OnChanges
{\n /**\n * @description\n * Internal reference to the view model value.\n *\n viewModel: any;\n\n /**\n *
 @description\n * Tracks the `FormControl` instance bound to the directive.\n *\n // TODO(issue/24571):
remove '!\n * @Input('formControl') form!: FormControl;\n\n /**\n * @description\n * Triggers a warning that
this input should not be used with reactive forms.\n *\n @Input('disabled')\n set isDisabled(isDisabled: boolean)
{ ReactiveErrors.disabledAttrWarning(); }\n\n // TODO(kara): remove next 4 properties once deprecation period is
over\n\n /** @deprecated as of v6 *\n @Input('ngModel') model: any;\n\n /** @deprecated as of v6 *\n
 @Output('ngModelChange') update = new EventEmitter();\n\n /**\n * @description\n * Static property used to
track whether any ngModel warnings have been sent across\n * all instances of FormControlDirective. Used to
support warning config of `"once"`. \n *\n * @internal\n *\n static _ngModelWarningSentOnce
= false;\n\n /**\n * @description\n * Instance property used to track whether an ngModel warning has been sent
out for this\n * particular `FormControlDirective` instance. Used to support warning config of `"always"`. \n *\n
 * @internal\n *\n _ngModelWarningSent = false;\n\n constructor(@Optional() @Self()
@Inject(NG_VALIDATORS) validators: Array<Validator|ValidatorFn>,\n @Optional() @Self()
@Inject(NG_ASYNC_VALIDATORS) asyncValidators: Array<AsyncValidator|AsyncValidatorFn>,\n
@Optional() @Self() @Inject(NG_VALUE_ACCESSOR)\n valueAccessors: ControlValueAccessor[],\n
@Optional() @Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING) private
_ngModelWarningConfig: string|null) {\n super();\n this._rawValidators = validators || [];\n
this._rawAsyncValidators = asyncValidators || [];\n this.valueAccessor = selectValueAccessor(this,
valueAccessors);\n }\n\n /**\n * @description\n * A lifecycle method called when the directive's inputs change.
For internal use\n * only.\n *\n * @param changes A object of key/value pairs for the set
of changed inputs.\n *\n ngOnChanges(changes: SimpleChanges): void {\n if
(this._isControlChanged(changes)) {\n setUpControl(this.form, this);\n if (this.control.disabled
&& this.valueAccessor !.setDisabledState) {\n this.valueAccessor !.setDisabledState !(true);\n
}\n this.form.updateValueAndValidity({emitEvent: false});\n }\n if
(isPropertyUpdated(changes, this.viewModel)) {\n _ngModelWarning(\n 'formControl',
FormControlDirective, this, this._ngModelWarningConfig);\n this.form.setValue(this.model);\n
this.viewModel = this.model;\n }\n }\n\n /**\n * @description\n *
Returns an array that represents the path from the top-level form to this control.\n * Each index is the string
name of the control on that level.\n *\n get path(): string[] { return []; }\n\n /**\n
 * @description\n * Synchronous validator function composed of all the synchronous validators\n *
registered with this directive.\n *\n get validator(): ValidatorFn|null { return
composeValidators(this._rawValidators); }\n\n /**\n * @description\n * Async validator
function composed of all the async validators registered with this\n * directive.\n *\n get
asyncValidator(): AsyncValidatorFn|null { return
composeAsyncValidators(this._rawAsyncValidators);\n }\n\n /**\n * @description\n * The `FormControl` bound to this directive.\n
 *\n get control(): FormControl { return this.form; }\n\n /**\n * @description\n *
Sets the new value for the view model and emits an `ngModelChange` event.\n *\n * @param
newValue The new value for the view model.\n *\n viewToModelUpdate(newValue: any): void
{\n this.viewModel = newValue;\n this.update.emit(newValue);\n }\n\n private
_isControlChanged(changes: {[key: string]: any}): boolean {\n return changes.hasOwnProperty('form');\n
}\n\n\n"/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source code is
governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n

```



```

*\n\nimport {Directive, EventEmitter, Inject, Input, OnChanges, Optional, Output, Self, SimpleChanges,
forwardRef} from '@angular/core';\nimport {FormArray, FormControl, FormGroup} from '../model';\nimport
{NG_ASYNC_VALIDATORS, NG_VALIDATORS, Validators} from '../validators';\nimport
{ControlContainer} from './control_container';\nimport {Form} from './form_interface';\nimport {ReactiveErrors}
from './reactive_errors';\nimport {cleanUpControl, composeAsyncValidators, composeValidators, removeDir,
setUpControl, setUpFormContainer, syncPendingControls} from './shared';\n\nimport {FormControlName} from
'./form_control_name';\nimport {FormArrayName, FormGroupName} from './form_group_name';\n\nexport const
formDirectiveProvider: any = {\n  provide: ControlContainer,\n  useExisting: forwardRef(() =>
FormGroupDirective)\n};\n\n/**\n * @description\n * Binds an existing `FormGroup` to a DOM element.\n *\n * This directive accepts an existing `FormGroup` instance. It will
then use this\n * `FormGroup` instance to match any child `FormControl`, `FormGroup`,\n * and `FormArray`
instances to child `FormControlName`, `FormGroupName`,\n * and `FormArrayName` directives.\n *\n * @see
[Reactive Forms Guide](guide/reactive-forms)\n * @see `AbstractControl`\n *\n * ### Register Form Group\n *\n * The following example registers a `FormGroup` with first name and last name controls,\n * and listens for the
*ngSubmit* event when the button is clicked.\n *\n * @example
forms/ts/simpleFormGroup/simple_form_group_example.ts region='Component'}\n *\n * @ngModule
ReactiveFormsModule\n * @publicApi\n *\n * @Directive({\n  selector: '[formGroup]',\n  providers:
[formDirectiveProvider],\n  host: {'(submit)': 'onSubmit($event)', 'reset)': 'onReset()'},\n  exportAs:
'ngForm'\n})\n\nexport class FormGroupDirective extends ControlContainer implements Form,\n  OnChanges {\n
/**\n * @description\n * Reports whether the form submission has been triggered.\n *\n * ^\n public
readonly submitted: boolean = false;\n\n // TODO(issue/24571): remove '!'\n private _oldForm!: FormGroup;\n\n
/**\n * @description\n * Tracks the list of added `FormControlName` instances\n *\n * ^\n directives:
FormControlName[] = [];\n\n /**\n * @description\n * Tracks the `FormGroup` bound to this directive.\n *\n * ^\n
@Input('formGroup') form: FormGroup = null !;\n\n /**\n * @description\n * Emits an event when the form
submission has been triggered.\n *\n * ^\n @Output() ngSubmit = new EventEmitter();\n\n constructor(\n
@Optional() @Self() @Inject(NG_VALIDATORS) private _validators: any[],\n  @Optional() @Self()
@Inject(NG_ASYNC_VALIDATORS) private _asyncValidators: any[]) {\n  super();\n }\n\n /**\n *
@description\n * A lifecycle method called when the directive's inputs change. For internal use only.\n *\n *
^ \n * @param changes A object of key/value pairs for the set of changed inputs.\n *\n * ^\n ngOnChanges(changes:
SimpleChanges): void {\n  this._checkFormPresent();\n
  if (changes.hasOwnProperty('form')) {\n    this._updateValidators();\n    this._updateDomValue();\n
    this._updateRegistrations();\n  }\n }\n\n /**\n * @description\n * Returns this directive's instance.\n *\n * ^\n
get formDirective(): Form { return this; }\n\n /**\n * @description\n * Returns the `FormGroup` bound to this
directive.\n *\n * ^\n get control(): FormGroup { return this.form; }\n\n /**\n * @description\n * Returns an array
representing the path to this group. Because this directive\n * always lives at the top level of a form, it always an
empty array.\n *\n * ^\n get path(): string[] { return []; }\n\n /**\n * @description\n * Method that sets up the
control directive in this group, re-calculates its value\n * and validity, and adds the instance to the internal list of
directives.\n *\n * ^ \n * @param dir The `FormControlName` directive instance.\n *\n * ^\n addControl(dir:
FormControlName): FormControl {\n  const ctrl:
any = this.form.get(dir.path);\n  setUpControl(ctrl, dir);\n  ctrl.updateValueAndValidity({emitEvent: false});\n
this.directives.push(dir);\n  return ctrl;\n }\n\n /**\n * @description\n * Retrieves the `FormControl` instance
from the provided `FormControlName` directive\n *\n * ^ \n * @param dir The `FormControlName` directive
instance.\n *\n * ^\n getControl(dir: FormControlName): FormControl { return <FormControl>this.form.get(dir.path);
}\n\n /**\n * @description\n * Removes the `FormControlName` instance from the internal list of directives\n
*\n * ^ \n * @param dir The `FormControlName` directive instance.\n *\n * ^\n removeControl(dir: FormControlName):
void { removeDir<FormControlName>(this.directives, dir); }\n\n /**\n * Adds a new `FormGroupName`
directive instance to the form.\n *\n * ^ \n * @param dir The `FormGroupName` directive instance.\n *\n * ^\n
addFormGroup(dir: FormGroupName): void {\n  const ctrl: any = this.form.get(dir.path);\n

```



`FormGroup` to link, and\n \* looks for a `FormGroup` registered with that name in the parent\n \* `FormGroup` instance you passed into `FormGroupDirective`.\n \*\n \* Use nested form groups to validate a sub-group of a\n \* form separately from the rest or to group the values of certain\n \* controls into their own nested object.\n \*\n \* @see [Reactive Forms Guide](guide/reactive-forms)\n \*\n \* @usageNotes\n \*\n \* ### Access the group by name\n \*\n \* The following example uses the {@link FormControl#get} method to access the\n \* associated `FormGroup`\n \*\n \* ```ts\n \* this.form.get('name');\n \* ```\n \*\n \* ### Access individual controls in the group\n \*\n \* The following example uses the {@link FormControl#get} method to access\n \* individual controls within the group using dot syntax.\n \*\n \* ```ts\n \* this.form.get('name.first');\n \* ```\n \*\n \* ### Register a nested `FormGroup`\n \*\n \* The following example registers a nested \*name\* `FormGroup` within an existing `FormGroup`,\n \* and provides methods to retrieve the nested `FormGroup` and individual controls.\n \*\n \* @example forms/ts/nestedFormGroup/nested\_form\_group\_example.ts region='Component'\n \*\n \* @ngModule ReactiveFormsModule\n \*\n \* @publicApi\n \*\n \* ^\n \* @Directive({selector: '[formGroupName]', providers: [formGroupNameProvider]})\n \* export class FormGroupName extends AbstractFormGroupDirective implements OnInit, OnDestroy {\n \* /\*\*\n \* \* @description\n \* \* Tracks the name of the `FormGroup` bound to the directive. The name corresponds\n \* \* to a key in the parent `FormGroup` or `FormArray`.\n \* \* Accepts 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 groups to be bound\n \* \* to indices when iterating over groups in a `FormArray`.\n \* \* ^\n \* \* // TODO(issue/24571): remove '!'\n \* \* @Input('formGroupName') name!: string | number | null;\n \* \* constructor(\n \* \* @Optional() @Host() @SkipSelf() parent: ControlContainer,\n \* \* @Optional() @Self() @Inject(NG\_VALIDATORS) validators: any[],\n \* \* @Optional() @Self() @Inject(NG\_ASYNC\_VALIDATORS) asyncValidators: any[]) {\n \* \* super();\n \* \* this.\_parent = parent;\n \* \* this.\_validators = validators;\n \* \* this.\_asyncValidators = asyncValidators;\n \* \* }\n \* \* ^\n \* \* @internal\n \* \* \_checkParentType(): void {\n \* \* if (\_hasInvalidParent(this.\_parent)) {\n \* \* ReactiveErrors.groupParentException();\n \* \* }\n \* \* }\n \* \* ^\n \* \* export const formArrayNameProvider: any = {\n \* \* provide: ControlContainer,\n \* \* useExisting: forwardRef(() => FormArrayName);\n \* \* };\n \* \* ^\n \* \* @description\n \* \* Syncs a nested `FormArray` to a DOM element.\n \* \* This directive is designed to be used with a parent `FormGroupDirective` (selector:\n \* \* `[formGroup]`).\n \* \* It accepts the string name of the nested `FormArray` you want to link, and\n \* \* will look for a `FormArray` registered with that name in the parent\n \* \* `FormGroup` instance you passed into `FormGroupDirective`.\n \* \* @see [Reactive Forms Guide](guide/reactive-forms)\n \* \* @see `AbstractControl`\n \* \* @usageNotes\n \* \* ### Example\n \* \* { @example forms/ts/nestedFormArray/nested\_form\_array\_example.ts region='Component'\n \* \* ^\n \* \* @ngModule ReactiveFormsModule\n \* \* ^\n \* \* @publicApi\n \* \* ^\n \* \* @Directive({selector: '[formArrayName]', providers: [formArrayNameProvider]})\n \* \* export class FormArrayName extends ControlContainer implements OnInit, OnDestroy {\n \* \* /\*\*\n \* \* \* @internal\n \* \* \* \_parent: ControlContainer;\n \* \* \* ^\n \* \* \* @internal\n \* \* \* \_validators: any[];\n \* \* \* ^\n \* \* \* @internal\n \* \* \* \_asyncValidators: any[];\n \* \* \* ^\n \* \* \* @description\n \* \* \* Tracks the name of the `FormArray` bound to the directive. The name corresponds\n \* \* \* to a key in the parent `FormGroup` or `FormArray`.\n \* \* \* Accepts 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 arrays to be bound\n \* \* \* to indices when iterating over arrays in a `FormArray`.\n \* \* \* ^\n \* \* \* // TODO(issue/24571): remove '!'\n \* \* \* @Input('formArrayName') name!: string | number | null;\n \* \* \* constructor(\n \* \* \* @Optional() @Host() @SkipSelf() parent: ControlContainer,\n \* \* \* @Optional() @Self() @Inject(NG\_VALIDATORS) validators: any[],\n \* \* \* @Optional() @Self() @Inject(NG\_ASYNC\_VALIDATORS) asyncValidators: any[]) {\n \* \* \* super();\n \* \* \* this.\_parent = parent;\n \* \* \* this.\_validators = validators;\n \* \* \* this.\_asyncValidators = asyncValidators;\n \* \* \* }\n \* \* \* ^\n \* \* \* @description\n \* \* \* A lifecycle method called when the directive's inputs are initialized. For internal use only.\n \* \* \* ^\n \* \* \* @throws If the directive does not have a valid parent.\n \* \* \* ^\n \* \* \* ngOnInit(): void {\n \* \* \* this.\_checkParentType();\n \* \* \* }\n \* \* \* this.formDirective!.addFormArray(this);\n \* \* \* }\n \* \* \* ^\n \* \* \* @description\n \* \* \* A lifecycle method called before the directive's instance is destroyed. For internal use only.\n \* \* \* ^\n \* \* \* ngOnDestroy(): void {\n \* \* \* if (this.formDirective) {\n \*

```

    this.formDirective.removeFormArray(this);\n    }\n    }\n\n    /**\n     * @description\n     * The `FormArray` bound to
this directive.\n     *\n     * get control(): FormArray { return this.formDirective!.getFormArray(this); }\n\n    /**\n     * @description\n     * The top-level directive for this group if present, otherwise null.\n     *\n     * get formDirective():
FormGroupDirective|null {\n     *   return this._parent ? <FormGroupDirective>this._parent.formDirective : null;\n    }\n\n    /**\n     * @description\n     * Returns an array that represents the path from the top-level form to this control.\n     *\n     * Each index is the string name of the control on that level.\n     *\n     * get path(): string[] {\n     *   return
controlPath(this.name == null ? this.name : this.name.toString(), this._parent);\n    }\n\n    /**\n     * @description\n     * Synchronous validator function composed of all the synchronous validators registered with this\n     *\n     * directive.\n     *\n     * get validator(): ValidatorFn|null {\n     *   return composeValidators(this._validators);\n    }\n\n    /**\n     * @description\n     * Async validator function composed of all the async validators registered with this directive.\n     *\n     * get
asyncValidator(): AsyncValidatorFn|null {\n     *   return composeAsyncValidators(this._asyncValidators);\n    }\n\n    private _checkParentType(): void {\n     *   if (_hasInvalidParent(this._parent)) {\n    ReactiveErrors.arrayParentException();\n    }\n    }\n\n    function _hasInvalidParent(parent: ControlContainer):
boolean {\n     *   return !(parent instanceof FormGroupName) && !(parent instanceof FormGroupDirective) &&\n     *   !(parent instanceof FormArrayName);\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    import {Directive, EventEmitter, Host, Inject, Input, OnChanges, OnDestroy,
Optional, Output, Self, SimpleChanges, SkipSelf, forwardRef} from '@angular/core';\n    import {FormControl}
from '../model';\n    import {NG_ASYNC_VALIDATORS, NG_VALIDATORS} from '../validators';\n    import
{AbstractFormGroupDirective} from './abstract_form_group_directive';\n    import {ControlContainer} from
'./control_container';\n    import
{ControlValueAccessor, NG_VALUE_ACCESSOR} from './control_value_accessor';\n    import {NgControl} from
'./ng_control';\n    import {ReactiveErrors} from './reactive_errors';\n    import {_ngModelWarning,
composeAsyncValidators, composeValidators, controlPath, isPropertyUpdated, selectValueAccessor} from
'./shared';\n    import {AsyncValidator, AsyncValidatorFn, Validator, ValidatorFn} from './validators';\n    import
{NG_MODEL_WITH_FORM_CONTROL_WARNING} from './form_control_directive';\n    import
{FormGroupDirective} from './form_group_directive';\n    import {FormArrayName, FormGroupName} from
'./form_group_name';\n\n    export const controlNameBinding: any = {\n     *   provide: NgControl,\n     *   useExisting:
forwardRef(() => FormControlName);\n    };\n\n    /**\n     * @description\n     * Syncs a `FormControl` in an existing
`FormGroup` to a form control\n     * element by name.\n     * \n     * @see [Reactive Forms Guide](guide/reactive-forms)\n     * \n     * @see `FormControl`\n     * @see `AbstractControl`\n     * \n     * @usageNotes\n     * \n     * ### Register
`FormControl` within a group\n     * \n     * The following example shows how to register multiple form controls within a
form group\n     * and set their value.\n     * \n     * {@example forms/ts/simpleFormGroup/simple_form_group_example.ts
region='Component'}\n     * \n     * To see `formControlName` examples with different form control types, see:\n     * \n     * *
Radio buttons: `RadioControlValueAccessor`\n     * * Selects: `SelectControlValueAccessor`\n     * * ### Use with
ngModel\n     * \n     * Support for using the `ngModel` input property and `ngModelChange` event with reactive\n     * form
directives has been deprecated in Angular v6 and will be removed in a future\n     * version of Angular.\n     * \n     * Now
deprecated:\n     * \n     * ```html\n     * <form [formGroup]="form">\n     *   <input formControlName="first"\n     *
[(ngModel)]="value">\n     * </form>\n     * ```\n     * \n     * ```ts\n     * this.value = 'some value';\n     * ```\n     * \n     * This has been
deprecated for a few reasons. First, developers have found this pattern\n     * confusing. It seems like the actual
`ngModel` directive is being used, but in fact it's\n     * 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     * \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     * \n

```

\* 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>
this.form.get('first').setValue('some value');

```

\* After (choice 2 - use template-driven forms):

```

<html>
<input [(ngModel)]="value">
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:

```

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.

\* `@NgModule`

```

ReactiveFormsModule
@publicApi
@Directive({ selector: '[formControlName]', providers:
[controlNameBinding] })
export class FormControlName extends NgControl implements OnChanges, OnDestroy {
  private _added = false;
  /** Internal reference to the view model value.
  @internal
  viewModel: any;
  /** Tracks the `FormControl` instance bound to the directive.
  // TODO(issue/24571): remove '!'.
  readonly control!: FormControl;
  /** 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;
  /** Triggers a warning that this input should not be used with reactive forms.
  @Input('disabled') set isDisabled(isDisabled: boolean) {
    ReactiveErrors.disabledAttrWarning();
  }
  // TODO(kara): remove next 4 properties once deprecation period is over
  /** @deprecated as of v6
  @Input('ngModel') model: any;
  /** @deprecated as of v6
  @Output('ngModelChange') update = new EventEmitter();
  /** 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;
  /** Instance property used to track whether an ngModel warning has been sent out for this particular FormControlName instance. Used to support warning config of "always".
  @internal
  _ngModelWarningSent = false;
  constructor(
    @Optional() @Host() @SkipSelf() parent: ControlContainer,
    @Optional() @Self() @Inject(NG_VALIDATORS) validators: Array<Validator|ValidatorFn>,
    @Optional() @Self() @Inject(NG_ASYNC_VALIDATORS) asyncValidators: Array<AsyncValidator|AsyncValidatorFn>,
    @Optional() @Self() @Inject(NG_VALUE_ACCESSOR) valueAccessors: ControlValueAccessor[],
    @Optional() @Inject(NG_MODEL_WITH_FORM_CONTROL_WARNING) private _ngModelWarningConfig: string|null) {
    super();
    this._parent = parent;
    this._rawValidators = validators || [];
    this._rawAsyncValidators = asyncValidators || [];
    this.valueAccessor = selectValueAccessor(this, valueAccessors);
  }
  /** A lifecycle method called when the directive's inputs change. For internal use only.
  @param changes A object of key/value pairs for the set of changed inputs.
  ngOnChanges(changes: SimpleChanges) {
    if (!this._added) this._setUpControl();
    if (isPropertyUpdated(changes, this.viewModel)) {
      _ngModelWarning('formControlName', FormControlName, this, this._ngModelWarningConfig);
      this.viewModel = this.model;
      this.formDirective.updateModel(this, this.model);
    }
  }
  /** Lifecycle method called before the directive's instance is destroyed. For internal use only.
  ngOnDestroy(): void {
    if (this.formDirective) {
      this.formDirective.removeControl(this);
    }
  }
  /** 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);
}

/**
 * Returns an array that represents the path from the top-level form to this control.
 * Each index is the string name of the control on that level.
 * get path(): string[] {
  return controlPath(this.name == null ? this.name : this.name.toString(), this._parent);
}

/**
 * The top-level directive for this group if present, otherwise null.
 * get formDirective(): any {
  return this._parent ? this._parent.formDirective : null;
}

/**
 * Synchronous validator function composed of all the synchronous validators
 * registered with this directive.
 * get validator(): ValidatorFn | null {
  return composeValidators(this._rawValidators);
}

/**
 * Async validator function composed of all the async validators registered with this
 * directive.
 * get asyncValidator(): AsyncValidatorFn {
  return composeAsyncValidators(this._rawAsyncValidators);
}

private _checkParentType(): void {
  if (!(this._parent instanceof FormGroupName) && this._parent instanceof
  AbstractFormGroupDirective) {
    ReactiveErrors.ngModelGroupException();
  } else if (!(this._parent instanceof FormGroupName) && !(this._parent instanceof
  FormGroupDirective) && !(this._parent instanceof FormGroupArrayName)) {
    ReactiveErrors.controlParentException();
  }
}

private _setUpControl() {
  this._checkParentType();
  (this as {control: FormControl}).control = this.formDirective.addControl(this);
  if (this.control.disabled && this.valueAccessor!.setDisabledState) {
    this.valueAccessor!.setDisabledState(true);
  }
  this._added = true;
}

"/**
 * @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, Input, OnChanges, SimpleChanges, StaticProvider, forwardRef } from '@angular/core';
import { Observable } from 'rxjs';
import { AbstractControl } from './model';
import { NG_VALIDATORS, Validators } from './validators';

/**
 * Defines the map of errors returned from failed validation checks.
 * @publicApi
 * @export type ValidationErrors = {
  [key: string]: any;
};

/**
 * 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
 * @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 {
  /**
   * 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;

  /**
   * Registers a callback function to call when the validator inputs change.
   * @param fn The callback function
   */
  registerOnChange?(fn: () => void): void;
}

/**
 * An interface implemented by classes that perform asynchronous validation.
 * @usageNotes
 * ### Provide a custom async validator directive
 * The following example implements the `AsyncValidator` interface to create an
 * async validator directive with a custom error key.
 * ```typescript
 * import { of as observableOf } from 'rxjs';
 * @Directive({
 *   selector: '[customAsyncValidator]',
 *   providers: [{ provide: NG_ASYNC_VALIDATORS, useExisting: CustomAsyncValidatorDirective, multi: true }]
 * })
 * class CustomAsyncValidatorDirective implements AsyncValidator {
 *   validate(control: AbstractControl): Observable<ValidationErrors | null> {
 *     return observableOf({ 'custom': true });
 *   }
 * }
 * ```
 * @publicApi
 * @export interface AsyncValidator extends Validator {
  /**
   * Method that performs async validation against the provided control.
   * @param control The control to validate against.
   * @returns A promise or observable that resolves a map of validation errors
   * if validation fails, otherwise null.
   */
  validate(control: AbstractControl): Promise<ValidationErrors | null> | Observable<ValidationErrors | null>;
}

/**
 * Provider which adds `RequiredValidator` to the `NG_VALIDATORS` multi-provider list.
 * @export const

```

```

REQUIRED_VALIDATOR: StaticProvider = {\n provide: NG_VALIDATORS,\n useExisting: forwardRef(() =>
RequiredValidator),\n multi: true\n};\n\n/**\n * @description\n * Provider which adds
`CheckboxRequiredValidator` to the `NG_VALIDATORS` multi-provider list.\n */\nexport const
CHECKBOX_REQUIRED_VALIDATOR: StaticProvider = {\n provide: NG_VALIDATORS,\n useExisting:
forwardRef(() => CheckboxRequiredValidator),\n multi: true\n};\n\n\n/**\n * @description\n * A directive that
adds the `required` validator to any controls marked with the\n * `required` attribute. The directive is provided with
the `NG_VALIDATORS` multi-provider list.\n * \n * @see [Form Validation](guide/form-validation)\n * \n *
@usageNotes\n * \n * ### Adding a required validator using template-driven forms\n * \n * ```\n * <input
name="fullName" ngModel required>\n * ```\n * \n * @ngModule FormsModule\n * @ngModule
ReactiveFormsModule\n * @publicApi\n */\n@Directive({\n selector:\n
':not([type=checkbox])[required][formControlName],:not([type=checkbox])[required][formControl],:not([type=chec
kbox])[required][ngModel]',\n
  providers: [REQUIRED_VALIDATOR],\n  host: {[attr.required]: 'required ?\'"\': null'}\n})\nexport class
RequiredValidator implements Validator {\n // TODO(issue/24571): remove '!.\n private _required!: boolean;\n //
TODO(issue/24571): remove '!.\n private _onChange!: () => void;\n\n /**\n * @description\n * Tracks changes
to the required attribute bound to this directive.\n * \n * @Input()\n get required(): boolean|string { return
this._required; }\n\n set required(value: boolean|string) {\n this._required = value != null && value !== false &&
`${value}` !== 'false';\n if (this._onChange) this._onChange();\n }\n\n /**\n * @description\n * Method that
validates whether the control is empty.\n * \n * Returns the validation result if enabled, otherwise null.\n * \n
validate(control: AbstractControl): ValidationErrors|null {\n return this.required
? Validators.required(control) : null;\n }\n\n /**\n * @description\n * Registers a callback function to call when
the validator inputs change.\n * \n * @param fn The callback function\n * \n registerOnValidatorChange(fn: ()
=> void): void { this._onChange = fn; }\n}\n\n\n/**\n * A Directive that adds the `required` validator to checkbox
controls marked with the\n * `required` attribute. The directive is provided with the `NG_VALIDATORS` multi-
provider list.\n * \n * @see [Form Validation](guide/form-validation)\n * \n * @usageNotes\n * \n * ### Adding a
required checkbox validator using template-driven forms\n * \n * The following example shows how to add a
checkbox required validator to an input attached to an ngModel binding.\n * \n * ```\n * <input type="checkbox"
name="active" ngModel required>\n * ```\n * \n * @publicApi\n * @ngModule FormsModule\n * @ngModule
ReactiveFormsModule\n */\n@Directive({\n selector:\n
'input[type=checkbox][required][formControlName],input[type=checkbox][required][formControl],input[type=chec
kbox][required][ngModel]',\n
  providers: [CHECKBOX_REQUIRED_VALIDATOR],\n  host: {[attr.required]: 'required ?\'"\':
null'}\n})\nexport class CheckboxRequiredValidator extends RequiredValidator {\n /**\n * @description\n *
Method that validates whether or not the checkbox has been checked.\n * \n * Returns the validation result if enabled,
otherwise null.\n * \n * validate(control: AbstractControl): ValidationErrors|null {\n return this.required ?
Validators.requiredTrue(control) : null;\n }\n}\n\n\n/**\n * @description\n * Provider which adds `EmailValidator`
to the `NG_VALIDATORS` multi-provider list.\n */\nexport const EMAIL_VALIDATOR: any = {\n provide:
NG_VALIDATORS,\n useExisting: forwardRef(() => EmailValidator),\n multi: true\n};\n\n\n/**\n * A directive
that adds the `email` validator to controls marked with the\n * `email` attribute. The directive is provided with the
`NG_VALIDATORS` multi-provider list.\n * \n * \n * @see [Form Validation](guide/form-validation)\n * \n * @usageNotes\n * \n * ### Adding an email validator\n * \n * The following example shows how to add an email validator to an input attached to an ngModel binding.\n * \n * ```\n * <input type="email" name="email" ngModel email>\n * <input type="email" name="email"
ngModel email="true">\n * <input type="email" name="email" ngModel [email]="true">\n * ```\n * \n *
@publicApi\n * @ngModule FormsModule\n * @ngModule ReactiveFormsModule\n */\n@Directive({\n selector:
'[email][formControlName],[email][formControl],[email][ngModel]',\n  providers:
[EMAIL_VALIDATOR]\n})\nexport class EmailValidator implements Validator {\n // TODO(issue/24571):
remove '!.\n private _enabled!: boolean;\n // TODO(issue/24571): remove '!.\n private _onChange!: () =>

```

```

void;
/**
 * @description
 * Tracks changes to the email attribute bound to this directive.
 */
@Input()
set email(value: boolean|string) {
  this._enabled
  = value === true || value === 'true';
  if (this._onChange) this._onChange();
}
/**
 * @description
 * Method that validates whether an email address is valid.
 * Returns the validation result if
enabled, otherwise null.
 */
validate(control: AbstractControl): ValidationErrors|null {
  return this._enabled
? Validators.email(control) : null;
}
/**
 * @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 function that receives a control and
synchronously returns a map of
validation errors if present, otherwise null.
 */
@param publicApi
 */
export
interface ValidatorFn {
  (control: AbstractControl): ValidationErrors|null;
}
/**
 * @description
 * A function
that receives a control and returns a Promise or observable
that
emits validation errors if present, otherwise null.
 */
@param publicApi
 */
export
interface AsyncValidatorFn {
  (control: AbstractControl): Promise<ValidationErrors|null>|Observable<ValidationErrors|null>;
}
/**
 * @description
 * Provider which adds `MinLengthValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export
const MIN_LENGTH_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting:
forwardRef(() => MinLengthValidator),
  multi: true;
};
/**
 * A directive that adds minimum length
validation to controls marked with the `minlength` attribute. The directive is provided with the
`NG_VALIDATORS` multi-provider list.
 */
@see [Form Validation](guide/form-validation)
 */
@usageNotes
 */
### Adding a minimum length validator
 */
The following example shows how to add a
minimum length validator to an input attached to an ngModel binding.
`<input
name="firstName" ngModel minlength="4">`
 */
@module
ReactiveFormsModule
 */
@ngModule FormsModule
 */
@publicApi
 */
@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;
  /**
 * @description
 * Tracks changes to the the minimum length bound to this directive.
 */
  //
  // TODO(issue/24571): remove '!'.
  @Input()
  minlength!: 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 ('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.
 */
  validate(control: AbstractControl): ValidationErrors|null {
    return this.minlength == null ? null :
this._validator(control);
  }
  /**
 * @description
 * Registers a callback function to call when the validator
inputs change.
 */
  @param fn The callback function
 */
  registerOnValidatorChange(fn: () => void): void {
    this._onChange = fn;
  }
  private
_createValidator(): void {
    this._validator = Validators.minLength(
typeof this.minlength === 'number' ? this.minlength : parseInt(this.minlength, 10));
  }
}
/**
 * @description
 * Provider which adds `MaxLengthValidator` to the `NG_VALIDATORS` multi-provider list.
 */
export
const MAX_LENGTH_VALIDATOR: any = {
  provide: NG_VALIDATORS,
  useExisting: forwardRef(() => 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.
 */
@see [Form Validation](guide/form-validation)
 */
@usageNotes
 */
### Adding a maximum length validator
 */
The following example shows how to add a
maximum length validator to an input attached to an ngModel binding.
`<input
name="firstName" ngModel maxlength="25">`
 */
@module
ReactiveFormsModule
 */
@ngModule FormsModule
 */
@publicApi
 */
@Directive({
  selector:
'[maxlength][formControlName],[maxlength][formControl],[maxlength][ngModel]',
  providers:

```



```

[MAX_LENGTH_VALIDATOR],\n host: {[attr.maxlength]: 'maxlength ? maxlength : null'}\n})\nexport class\nMaxLengthValidator implements Validator,\n  OnChanges {\n  // TODO(issue/24571): remove '!.\n  private\n_validator\n  !: ValidatorFn;\n  // TODO(issue/24571): remove '!.\n  private _onChange !: () => void;\n\n  /**\n   * @description\n   * Tracks changes to the the maximum length bound to this directive.\n   */\n  //\n  // TODO(issue/24571): remove '!.\n  @Input() maxlength !: string | number;\n\n  /**\n   * @description\n   * A\n   * lifecycle method called when the directive's inputs change. For internal use\n   * only.\n   */\n  @param changes A\n  object of key/value pairs for the set of changed inputs.\n  */\n  ngOnChanges(changes: SimpleChanges): void {\n  if ('maxlength' in changes) {\n    this._createValidator();\n    if (this._onChange) this._onChange();\n  }\n}\n\n/**\n * @description\n * Method that validates whether the value exceeds\n * the maximum length\n * requirement.\n */\n validate(control: AbstractControl): ValidationErrors|null {\n  return this.maxlength != null ?\n  this._validator(control) : null;\n}\n\n/**\n * @description\n * Registers a callback function to\n  call when the validator inputs change.\n */\n @param fn The callback function\n */\n registerOnValidatorChange(fn: () => void): void {\n  this._onChange = fn;\n}\n\n private _createValidator(): void {\n  this._validator = Validators.maxLength(\n    typeof this.maxlength === 'number' ? this.maxlength :\n    parseInt(this.maxlength, 10));\n}\n\n/**\n * @description\n * Provider which adds `PatternValidator` to the\n `NG_VALIDATORS` multi-provider list.\n */\nexport const PATTERN_VALIDATOR: any = {\n  provide:\n  NG_VALIDATORS,\n  useExisting: forwardRef(() => PatternValidator),\n  multi: true\n};\n\n/**\n * @description\n * A directive that adds regex pattern validation to controls marked with the\n `pattern` attribute.\n  The regex must match the entire control value.\n * The directive is provided with the `NG_VALIDATORS` multi-\n provider list.\n */\n @see [Form Validation](guide/form-validation)\n */\n @usageNotes\n */\n ### Adding a\n pattern validator\n */\n * The following example\n\n  shows how to add a pattern validator to an input attached to an\n * ngModel binding.\n */\n * ``html\n * <input\n  name="firstName" ngModel pattern="[a-zA-Z]*">\n * ``\n */\n * @ngModule ReactiveFormsModule\n * @ngModule FormsModule\n * @publicApi\n */\n @Directive({\n  selector:\n  '[pattern][formControlName],[pattern][formControl],[pattern][ngModel]',\n  providers:\n  [PATTERN_VALIDATOR],\n  host: {[attr.pattern]: 'pattern ? pattern : null'}\n})\nexport class PatternValidator\nimplements Validator,\n  OnChanges {\n  // TODO(issue/24571): remove '!.\n  private _validator !: ValidatorFn;\n  // TODO(issue/24571): remove '!.\n  private _onChange !: () => void;\n\n  /**\n   * @description\n   * Tracks\n   * changes to the pattern bound to this directive.\n   */\n  // TODO(issue/24571): remove '!.\n  @Input() pattern !:\n  string | RegExp;\n\n  /**\n   * @description\n   * A lifecycle method called when the directive's inputs change. For\n   * internal use\n   * only.\n   */\n  @param changes A\n  object of key/value pairs for the set of changed inputs.\n  */\n  ngOnChanges(changes: SimpleChanges): void {\n  if ('pattern' in changes) {\n    this._createValidator();\n    if (this._onChange) this._onChange();\n  }\n}\n\n/**\n * @description\n * Method that validates whether the value matches the\n * the pattern requirement.\n */\n validate(control: AbstractControl): ValidationErrors|null {\n  return this._validator(control);\n}\n\n/**\n * @description\n * Registers a callback function to call when the validator inputs change.\n */\n @param fn The\n  callback function\n */\n registerOnValidatorChange(fn: () => void): void {\n  this._onChange = fn;\n}\n\n private\n_createValidator(): void {\n  this._validator = Validators.pattern(this.pattern);\n}\n}\n\n"/**\n * @license\n * Copyright\n  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\n  {NgModule, Type} from '@angular/core';\nimport {CheckboxControlValueAccessor} from\n  './directives/checkbox_value_accessor';\nimport {DefaultValueAccessor} from\n  './directives/default_value_accessor';\nimport {NgControlStatus, NgControlStatusGroup} from\n  './directives/ng_control_status';\nimport {NgForm} from './directives/ng_form';\nimport {NgModel} from\n  './directives/ng_model';\nimport {NgModelGroup} from\n  './directives/ng_model_group';\nimport {NgNoValidate}\n  from './directives/ng_no_validate_directive';\nimport {NumberValueAccessor} from\n  './directives/number_value_accessor';\nimport {RadioControlValueAccessor} from

```

```

'./directives/radio_control_value_accessor';\nimport {RangeValueAccessor} from
'./directives/range_value_accessor';\nimport {FormControlDirective} from
'./directives/reactive_directives/form_control_directive';\nimport {FormControlName} from
'./directives/reactive_directives/form_control_name';\nimport {FormGroupDirective} from
'./directives/reactive_directives/form_group_directive';\nimport
{FormArrayName, FormGroupName} from './directives/reactive_directives/form_group_name';\nimport
{NgSelectOption, SelectControlValueAccessor} from './directives/select_control_value_accessor';\nimport
{NgSelectMultipleOption, SelectMultipleControlValueAccessor} from
'./directives/select_multiple_control_value_accessor';\nimport {CheckboxRequiredValidator, EmailValidator,
MaxLengthValidator, MinLengthValidator, PatternValidator, RequiredValidator} from
'./directives/validators';\n\nexport {CheckboxControlValueAccessor} from
'./directives/checkbox_value_accessor';\nexport {ControlValueAccessor} from
'./directives/control_value_accessor';\nexport {DefaultValueAccessor} from
'./directives/default_value_accessor';\nexport {NgControl} from './directives/ng_control';\nexport {NgControlStatus,
NgControlStatusGroup} from './directives/ng_control_status';\nexport {NgForm} from
'./directives/ng_form';\nexport {NgModel} from './directives/ng_model';\nexport {NgModelGroup}
from './directives/ng_model_group';\nexport {NumberValueAccessor} from
'./directives/number_value_accessor';\nexport {RadioControlValueAccessor} from
'./directives/radio_control_value_accessor';\nexport {RangeValueAccessor} from
'./directives/range_value_accessor';\nexport {FormControlDirective,
NG_MODEL_WITH_FORM_CONTROL_WARNING} from
'./directives/reactive_directives/form_control_directive';\nexport {FormControlName} from
'./directives/reactive_directives/form_control_name';\nexport {FormGroupDirective} from
'./directives/reactive_directives/form_group_directive';\nexport {FormArrayName, FormGroupName} from
'./directives/reactive_directives/form_group_name';\nexport {NgSelectOption, SelectControlValueAccessor} from
'./directives/select_control_value_accessor';\nexport {NgSelectMultipleOption,
SelectMultipleControlValueAccessor} from './directives/select_multiple_control_value_accessor';\n\nexport const
SHARED_FORM_DIRECTIVES: Type<any>[] = [\n NgNoValidate,\n NgSelectOption,\n
NgSelectMultipleOption,\n
Default\nValue\nAccessor,\n Number\nValue\nAccessor,\n Range\nValue\nAccessor,\n
Checkbox\nControl\nValue\nAccessor,\n
Select\nControl\nValue\nAccessor,\n
Select\nMultiple\nControl\nValue\nAccessor,\n
Radio\nControl\nValue\nAccessor,\n
Ng\nControl\nStatus,\n
Ng\nControl\nStatus\nGroup,\n
Required\nValidator,\n
Min\nLength\nValidator,\n
Max\nLength\nValidator,\n
Pattern\nValidator,\n
Checkbox\nRequired\nValidator,\n
Email\nValidator,\n];\n\nexport const
TEMPLATE_DRIVEN_DIRECTIVES: Type<any>[] = [NgModel, NgModelGroup, NgForm];\n\nexport const
REACTIVE_DRIVEN_DIRECTIVES: Type<any>[] = [\n FormControlDirective, FormGroupDirective,
FormControlName, FormGroupName, FormArrayName];\n\n/**\n * Internal module used for sharing directives
between FormsModule and ReactiveFormsModule\n */\n@NgModule({\n declarations:
SHARED_FORM_DIRECTIVES,\n exports: SHARED_FORM_DIRECTIVES,\n})\nexport class
ÉµInternalFormsSharedModule {\n}\n\nexport {ÉµInternalFormsSharedModule as
InternalFormsSharedModule};\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 {Injectable} from
'@angular/core';\n\nimport {AsyncValidatorFn, ValidatorFn} from './directives/validators';\nimport
{AbstractControl, AbstractControlOptions, FormArray, FormControl, FormGroup, FormHooks} from
'./model';\n\nfunction isAbstractControlOptions(options: AbstractControlOptions | {[key: string]: any}):\n
options\nis\nAbstract\nControl\nOptions\n {\n return (<AbstractControlOptions>options).asyncValidators !== undefined ||\n
(<AbstractControlOptions>options).validators !== undefined ||\n
(<AbstractControlOptions>options).updateOn\n
!==\nundefined;\n}\n\n/**\n * @description\n * Creates an `AbstractControl` from a user-specified configuration.\n

```

\*\n \* The `FormBuilder` provides syntactic sugar that shortens creating instances of a `FormControl`,\n \* `FormGroup`, or `FormArray`. It reduces the amount of boilerplate needed to build complex\n \* forms.\n \* @see [Reactive Forms Guide](/guide/reactive-forms)\n \* @publicApi\n \* @Injectable()\n \* export class FormBuilder {\n \* /\*\*\n \* @description\n \* Construct a new `FormGroup` instance.\n \* @param controlsConfig A collection of child controls. The key for each child is the name\n \* under which it is registered.\n \* @param options Configuration options object for the `FormGroup`. The object can\n \* have two shapes:\n \* 1) `AbstractControlOptions` object (preferred), which consists of:\n \* \* `validators`: A synchronous validator function, or an array of validator functions\n \* \* `asyncValidators`: A single async validator or array of async validator functions\n \* \* `updateOn`: The event upon which the control should be updated (options: 'change' | 'blur' | 'submit')\n \* 2) Legacy configuration object, which consists of:\n \* \* `validator`: A synchronous validator function, or an array of validator functions\n \* \* `asyncValidator`: A single async validator or array of async validator functions\n \* @group controlsConfig: {[key: string]: any},\n \* options: AbstractControlOptions|{[key: string]: any}|null = null): FormGroup {\n \* const controls = this.\_reduceControls(controlsConfig);\n \* let validators: ValidatorFn|ValidatorFn[]|null = null;\n \* let asyncValidators: AsyncValidatorFn|AsyncValidatorFn[]|null = null;\n \* let updateOn: FormHooks|undefined = undefined;\n \* if (options != null) {\n \* if (isAbstractControlOptions(options)) {\n \* // `options` are `AbstractControlOptions`\n \* validators = options.validators != null ? options.validators : null;\n \* asyncValidators = options.asyncValidators != null ? options.asyncValidators : null;\n \* updateOn = options.updateOn != null ? options.updateOn : undefined;\n \* } else {\n \* // `options` are legacy form group options\n \* validators = options['validator'] != null ? options['validator'] : null;\n \* asyncValidators = options['asyncValidator'] != null ? options['asyncValidator'] : null;\n \* }\n \* }\n \* return new FormGroup(controls, {asyncValidators, updateOn, validators});\n \* }\n \* /\*\*\n \* @description\n \* Construct a new `FormControl` with the given state, validators and options.\n \* @param formState Initializes the control with an initial state value, or\n \* with an object that contains both a value and a disabled status.\n \* @param validatorOrOpts A synchronous validator function, or an array of\n \* such functions, or an `AbstractControlOptions` object that contains\n \* validation functions and a validation trigger.\n \* @param asyncValidator A single async validator or array of async validator\n \* functions.\n \* @usageNotes\n \* ### Initialize a control as disabled\n \* The following example returns a control with an initial value in a disabled state.\n \* <code-example path="/forms/ts/formBuilder/form\_builder\_example.ts" region="disabled-control">\n \* control(\n \* formState: any, validatorOrOpts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,\n \* asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[]|null): FormControl {\n \* return new FormControl(formState, validatorOrOpts, asyncValidator);\n \* }\n \* /\*\*\n \* Constructs a new `FormArray` from the given array of configurations,\n \* validators and options.\n \* @param controlsConfig An array of child controls or control configs. Each\n \* child control is given an index when it is registered.\n \* @param validatorOrOpts A synchronous validator function, or an array of\n \* such functions, or an `AbstractControlOptions` object that contains\n \* validation functions and a validation trigger.\n \* @param asyncValidator A single async validator or array of async validator\n \* functions.\n \* @group controlsConfig: any[],\n \* validatorOrOpts?: ValidatorFn|ValidatorFn[]|AbstractControlOptions|null,\n \* asyncValidator?: AsyncValidatorFn|AsyncValidatorFn[]|null): FormArray {\n \* const controls = controlsConfig.map(c => this.\_createControl(c));\n \* return new FormArray(controls, validatorOrOpts, asyncValidator);\n \* }\n \* /\*\*\n \* @internal\n \* \_reduceControls(controlsConfig: {[k: string]: any}): {[key: string]: AbstractControl} {\n \* const controls: {[key: string]: AbstractControl} = {};\n \* Object.keys(controlsConfig).forEach(controlName => {\n \* controls[controlName] = this.\_createControl(controlsConfig[controlName]);\n \* });\n \* return controls;\n \* }\n \* /\*\*

```

@internal *\n _createControl(controlConfig: any): AbstractControl {\n  if (controlConfig instanceof FormControl
|| controlConfig instanceof FormGroup ||\n    controlConfig instanceof FormArray) {\n    return
controlConfig;\n\n  } else if (Array.isArray(controlConfig)) {\n    const value
= controlConfig[0];\n    const validator: ValidatorFn = controlConfig.length > 1 ? controlConfig[1] : null;\n
const asyncValidator: AsyncValidatorFn = controlConfig.length > 2 ? controlConfig[2] : null;\n    return
this.control(value, validator, asyncValidator);\n\n  } else {\n    return this.control(controlConfig);\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\n**\n * @module\n * @description\n * Entry point for all public APIs of the common package.\n */\n\nimport
{Version} from '@angular/core';\n\n/**\n * @publicApi\n */\n\nexport const VERSION = new
Version('9.0.7');\n\n"/**\n * @license\n * Copyright Google Inc. All Rights Reserved.\n *\n * Use of this source
code is governed by an MIT-style license that can be\n * found in the LICENSE file at https://angular.io/license\n
*/\n\nimport
{ModuleWithProviders, NgModule} from '@angular/core';\n\nimport {InternalFormsSharedModule,
NG_MODEL_WITH_FORM_CONTROL_WARNING, REACTIVE_DRIVEN_DIRECTIVES,
TEMPLATE_DRIVEN_DIRECTIVES} from './directives';\n\nimport {RadioControlRegistry} from
'./directives/radio_control_value_accessor';\n\nimport {FormBuilder} from './form_builder';\n\n/**\n * Exports the
required providers and directives for template-driven forms,\n * making them available for import by NgModules
that import this module.\n *\n * @see [Forms Guide](/guide/forms)\n *\n * @publicApi\n */\n\n@NgModule({\n
declarations: TEMPLATE_DRIVEN_DIRECTIVES,\n providers: [RadioControlRegistry],\n exports:
[InternalFormsSharedModule, TEMPLATE_DRIVEN_DIRECTIVES]\n})\n\nexport class FormsModule
{\n}\n\n/**\n * Exports the required infrastructure and directives for reactive forms,\n * making them available for
import by NgModules that import this module.\n *\n * @see [Forms](guide/reactive-forms)\n *\n * @see [Reactive
Forms Guide](/guide/reactive-forms)\n
*\n * @publicApi\n */\n\n@NgModule({\n declarations: [REACTIVE_DRIVEN_DIRECTIVES],\n providers:
[FormBuilder, RadioControlRegistry],\n exports: [InternalFormsSharedModule,
REACTIVE_DRIVEN_DIRECTIVES]\n})\n\nexport class ReactiveFormsModule {\n /**\n * @description\n *
Provides options for configuring the reactive forms module.\n *\n * @param opts An object of configuration
options\n * * `warnOnNgModelWithFormControl` Configures when to emit a warning when an `ngModel`\n *
binding is used with reactive form directives.\n */\n static withConfig(opts: {\n /** @deprecated as of v6 */
warnOnNgModelWithFormControl: 'never' | 'once' | 'always'\n }): ModuleWithProviders<ReactiveFormsModule>
{\n return {\n ngModule: ReactiveFormsModule,\n providers: [{\n provide:
NG_MODEL_WITH_FORM_CONTROL_WARNING,\n useValue: opts.warnOnNgModelWithFormControl\n
}]\n };\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\n**\n * @module\n * @description\n * This module is used for handling user input,
by defining and building a `FormGroup` that\n * consists of `FormControl` objects, and mapping them onto the
DOM. `FormControl`\n * objects can then be used to read information from the form DOM elements.\n *\n * Forms
providers are not included in default providers; you must import these providers\n * explicitly.\n */\n\n\nexport
{ÉµInternalFormsSharedModule} from './directives';\n\nexport {AbstractControlDirective} from
'./directives/abstract_control_directive';\n\nexport {AbstractFormGroupDirective} from
'./directives/abstract_form_group_directive';\n\nexport {CheckboxControlValueAccessor} from
'./directives/checkbox_value_accessor';\n\nexport {ControlContainer} from './directives/control_container';\n\nexport
{ControlValueAccessor, NG_VALUE_ACCESSOR} from './directives/control_value_accessor';\n\nexport
{COMPOSITION_BUFFER_MODE, DefaultValueAccessor} from './directives/default_value_accessor';\n\nexport
{Form} from './directives/form_interface';\n\nexport {NgControl} from './directives/ng_control';\n\nexport
{NgControlStatus, NgControlStatusGroup} from './directives/ng_control_status';\n\nexport {NgForm} from
'./directives/ng_form';\n\nexport {NgModel} from './directives/ng_model';\n\nexport {NgModelGroup} from

```

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./directives/ng_model_group';\nextport {ÉµNgNoValidate} from './directives/ng_no_validate_directive';\nextport
{NumberValueAccessor} from './directives/number_value_accessor';\nextport {RadioControlValueAccessor} from
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./directives/reactive_directives/form_control_name';\nextport {FormGroupDirective} from
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{FormArrayName} from './directives/reactive_directives/form_group_name';\nextport {FormGroupName} from
./directives/reactive_directives/form_group_name';\nextport {NgSelectOption, SelectControlValueAccessor} from
./directives/select_control_value_accessor';\nextport {SelectMultipleControlValueAccessor} from
./directives/select_multiple_control_value_accessor';\nextport {ÉµNgSelectMultipleOption} from
./directives/select_multiple_control_value_accessor';\nextport {AsyncValidator, AsyncValidatorFn,
CheckboxRequiredValidator, EmailValidator, MaxLengthValidator, MinLengthValidator, PatternValidator,
RequiredValidator, ValidationErrors, Validator, ValidatorFn} from './directives/validators';\nextport {FormBuilder}
from './form_builder';\nextport {AbstractControl, AbstractControlOptions, FormArray, FormControl, FormGroup}
from './model';\nextport {NG_ASYNC_VALIDATORS, NG_VALIDATORS, Validators} from
./validators';\nextport {VERSION} from './version';\n\nnextport
* from './form_providers';\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/*\n * @module\n * @description\n * Entry point for all public APIs of this
package.\n *\nnextport * from './src/forms';\n\n// This file only reexports content of the `src` folder. Keep it that
way.\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//
This file is not used to build this module. It is only used during editing\n// by the TypeScript language service and
during build for verification. `ngc`\n// replaces this file with production index.ts when it rewrites private symbol\n//
names.\n\nnextport * from './public_api';\n", "/*\n * Generated bundle index. Do not edit.\n
*\n\nnextport * from './index';\n\nnextport {InternalFormsSharedModule as
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Éµangular_packages_forms_forms_c, SHARED_FORM_DIRECTIVES as
Éµangular_packages_forms_forms_a, TEMPLATE_DRIVEN_DIRECTIVES as
Éµangular_packages_forms_forms_b} from './src/directives';\nextport {CHECKBOX_VALUE_ACCESSOR as
Éµangular_packages_forms_forms_e} from './src/directives/checkbox_value_accessor';\nextport
{DEFAULT_VALUE_ACCESSOR as Éµangular_packages_forms_forms_f} from
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Éµangular_packages_forms_forms_g, ngControlStatusHost as Éµangular_packages_forms_forms_h} from
./src/directives/ng_control_status';\nextport {formDirectiveProvider as Éµangular_packages_forms_forms_i} from
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./src/directives/radio_control_value_accessor';\nextport {RANGE_VALUE_ACCESSOR as
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{NG_MODEL_WITH_FORM_CONTROL_WARNING as
Éµangular_packages_forms_forms_p, formControlBinding as Éµangular_packages_forms_forms_q} from
./src/directives/reactive_directives/form_control_directive';\nextport {controlNameBinding as

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Éµangular\_packages\_forms\_forms\_r} from './src/directives/reactive\_directives/form\_control\_name';\nexport  
{formDirectiveProvider as Éµangular\_packages\_forms\_forms\_s} from  
'./src/directives/reactive\_directives/form\_group\_directive';\nexport  
{formArrayNameProvider as Éµangular\_packages\_forms\_forms\_u,formGroupNameProvider as  
Éµangular\_packages\_forms\_forms\_t} from './src/directives/reactive\_directives/form\_group\_name';\nexport  
{SELECT\_VALUE\_ACCESSOR as Éµangular\_packages\_forms\_forms\_v} from  
'./src/directives/select\_control\_value\_accessor';\nexport {NgSelectMultipleOption as  
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Éµangular\_packages\_forms\_forms\_w} from './src/directives/select\_multiple\_control\_value\_accessor';\nexport  
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Éµangular\_packages\_forms\_forms\_bb,MAX\_LENGTH\_VALIDATOR as  
Éµangular\_packages\_forms\_forms\_bd,MIN\_LENGTH\_VALIDATOR as  
Éµangular\_packages\_forms\_forms\_bc,PATTERN\_VALIDATOR as  
Éµangular\_packages\_forms\_forms\_be,REQUIRED\_VALIDATOR as Éµangular\_packages\_forms\_forms\_z} from  
'./src/directives/validators';}], "names":["getDOM", "isPromise", "isObservable", "Examples", "looseIdentical", "\_build  
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,EAAE,eAAe,EAAE,cAAc,CAAC,CAAC;KACjE;;IAGD,qCAAE,GAaf,UAAgB,cAAkC;QAaID,iBAMC;QALC,  
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,OAAO,aAAa,CAAC;SAEtB;aAAM,IAAI,KAAK,CAAC,OAAO,CAAC,aAAa,CAAC,EAAE;YACvC,IAAM,KA  
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Found

in path(s):

\* /opt/cola/permits/1099647491\_1602536489.34/0/forms-9-0-7-2-tgz/package/fesm5/forms.js.map

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

Angular

=====

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Found in path(s):

\* /opt/cola/permits/1099647491\_1602536489.34/0/forms-9-0-7-2-tgz/package/README.md

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2006-Jan-27

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#

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#

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#

.gitignore

#

builds/unix/pkg.m4

#

docs/FTL.TXT

docs/GPLv2.TXT

#

include/freetype/internal/fthash.h

#

src/base/fthash.c

src/base/md5.c

src/base/md5.h

#

src/bdf/bdf.c

src/bdf/bdf.h

src/bdf/bdfdrivr.c

src/bdf/bdfdrivr.h

src/bdf/bdferror.h

src/bdf/bdfplib.c

src/bdf/module.mk

src/bdf/README

src/bdf/rules.mk

#

src/pcf/module.mk

src/pcf/pcf.c

```
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftandom/ftandom.c
#
#
EOF
```

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# 1.469 httpclient 4.5.13

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```
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jar/io/sundr/resourcecify/internal/processor/ResourcecifyProcessor.java
* /opt/cola/permits/1108972026_1606233058.01/0/resourcecify-annotations-0-22-0-sources-
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jar/io/kubernetes/client/openapi/models/V1beta1CustomResourceDefinitionNames.java
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* /opt/cola/permits/1108972012_1606233061.17/0/client-java-api-10-0-0-sources-  
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* /opt/cola/permits/1108972012_1606233061.17/0/client-java-api-10-0-0-sources-  
jar/io/kubernetes/client/openapi/models/V1alpha1WebhookClientConfig.java
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* /opt/cola/permits/1108972012_1606233061.17/0/client-java-api-10-0-0-sources-  
jar/io/kubernetes/client/openapi/models/V1alpha1VolumeAttachmentSource.java
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* /opt/cola/permits/1108972012_1606233061.17/0/client-java-api-10-0-0-sources-  
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jar/io/kubernetes/client/openapi/models/V2beta1CrossVersionObjectReference.java
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* /opt/cola/permits/1108972012_1606233061.17/0/client-java-api-10-0-0-sources-  
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* /opt/cola/permits/1108972012_1606233061.17/0/client-java-api-10-0-0-sources-  
jar/io/kubernetes/client/openapi/models/V1TCPSocketAction.java
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* /opt/cola/permits/1108972012_1606233061.17/0/client-java-api-10-0-0-sources-
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jar/io/kubernetes/client/openapi/models/V1QuobyteVolumeSource.java  
\* /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-  
jar/io/kubernetes/client/openapi/GzipRequestInterceptor.java  
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jar/io/kubernetes/client/openapi/models/V1ScaleSpec.java  
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jar/io/kubernetes/client/openapi/models/V1ScopeSelector.java  
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jar/io/kubernetes/client/openapi/models/V2beta1ExternalMetricSource.java  
\* /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-  
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/opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-jar/io/kubernetes/client/openapi/apis/StorageV1Api.java  
\* /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-jar/io/kubernetes/client/openapi/models/V1FCVolumeSource.java  
\* /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-jar/io/kubernetes/client/openapi/auth/HttpBearerAuth.java  
\* /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-jar/io/kubernetes/client/openapi/models/V1CustomResourceDefinition.java  
\* /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-jar/io/kubernetes/client/openapi/models/V1NodeCondition.java  
\* /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-jar/io/kubernetes/client/openapi/models/V1beta1LeaseSpec.java  
\* /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-jar/io/kubernetes/client/openapi/models/V1PhotonPersistentDiskVolumeSource.java  
\*  
/opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-jar/io/kubernetes/client/openapi/models/V1KeyToPath.java  
\* /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-jar/io/kubernetes/client/openapi/models/V1VolumeDevice.java  
\* /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-

jar/io/kubernetes/client/openapi/models/V1HorizontalPodAutoscaler.java  
 \* /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-  
 jar/io/kubernetes/client/openapi/models/V1VolumeProjection.java  
 \* /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-  
 jar/io/kubernetes/client/openapi/models/V1ScaleIOPersistentVolumeSource.java  
 \* /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-  
 jar/io/kubernetes/client/openapi/models/V1ContainerStateRunning.java  
 \* /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-  
 jar/io/kubernetes/client/common/KubernetesListObject.java  
 \*  
 /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-  
 jar/io/kubernetes/client/openapi/models/V2beta2ExternalMetricStatus.java  
 \* /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-  
 jar/io/kubernetes/client/openapi/models/V1SelfSubjectRulesReview.java  
 \* /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-  
 jar/io/kubernetes/client/openapi/models/V1DeploymentSpec.java  
 \* /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-  
 jar/io/kubernetes/client/openapi/apis/ExtensionsApi.java  
 \* /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-  
 jar/io/kubernetes/client/openapi/models/V1ReplicationController.java  
 \* /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-  
 jar/io/kubernetes/client/openapi/models/V1beta1EndpointSlice.java  
 \* /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-  
 jar/io/kubernetes/client/openapi/apis/DiscoveryApi.java  
 \*  
 /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-  
 jar/io/kubernetes/client/openapi/models/V1RoleBindingList.java  
 \* /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-  
 jar/io/kubernetes/client/openapi/models/V1alpha1RoleRef.java  
 \* /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-  
 jar/io/kubernetes/client/openapi/models/V1BoundObjectReference.java  
 \* /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-  
 jar/io/kubernetes/client/openapi/models/V1ReplicaSet.java  
 \* /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-  
 jar/io/kubernetes/client/openapi/models/V1TopologySelectorLabelRequirement.java  
 \* /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-  
 jar/io/kubernetes/client/openapi/models/V2beta1PodsMetricSource.java  
 \* /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-  
 jar/io/kubernetes/client/openapi/models/V1beta1APIServiceStatus.java  
 \*  
 /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-  
 jar/io/kubernetes/client/openapi/models/V1JobStatus.java  
 \* /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-  
 jar/io/kubernetes/client/openapi/models/V1alpha1Policy.java  
 \* /opt/cola/permits/1108972012\_1606233061.17/0/client-java-api-10-0-0-sources-  
 jar/io/kubernetes/client/openapi/models/V1alpha1VolumeError.java

# 1.481 client-java 10.0.0

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\*/

Found in path(s):

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/ClientBuilder.java

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/ProtoClient.java

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/informer/SharedInformer.java

\*

/opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/exception/TypeMetaReflectException.java

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/Watch.java

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/WebSockets.java

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/labels/EqualityMatcher.java

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/credentials/Authentication.java

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/monitoring/PrometheusInterceptor.java

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/monitoring/Monitoring.java

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/Config.java

\*

/opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/ConfigPersister.java

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/CallGeneratorParams.java

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/KubeConfig.java

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/conversion/Jobs.java

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/informer/cache/Indexer.java

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/informer/cache/SharedProcessor.java

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/authenticators/OpenIDConnectAuthenticator.java

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/informer/cache/Caches.java

\*

/opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/informer/ResourceEventHandler.java

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/apimachinery/KubernetesResource.java

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/exception/ObjectMetaReflectException.java

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/TypeAccessor.java

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/SSLUtils.java

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/apimachinery/ParseKubernetesResourceException.java

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/taints/Taints.java

\*

/opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/credentials/KubeconfigAuthentication.java

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/exception/CopyNotSupportedException.java

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/informer/cache/Store.java

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/ListAccessor.java

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/Discovery.java

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/FilePersister.java

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/WebSocketStreamHandler.java

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/authenticators/Authenticator.java

\*

/opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/generic/options/GetOptions.java

\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-

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jar/io/kubernetes/client/informer/ListenerWatcher.java
* /opt/cola/permits/1108972032_1606233064.34/0/client-java-10-0-0-sources-
jar/io/kubernetes/client/informer/impl/DefaultSharedIndexInformer.java
* /opt/cola/permits/1108972032_1606233064.34/0/client-java-10-0-0-sources-
jar/io/kubernetes/client/util/Namespaces.java
* /opt/cola/permits/1108972032_1606233064.34/0/client-java-10-0-0-sources-
jar/io/kubernetes/client/informer/exception/BadNotificationException.java
* /opt/cola/permits/1108972032_1606233064.34/0/client-java-10-0-0-sources-
jar/io/kubernetes/client/informer/cache/ReflectorRunnable.java
* /opt/cola/permits/1108972032_1606233064.34/0/client-java-10-0-0-sources-
jar/io/kubernetes/client/informer/ResyncRunnable.java
*
/opt/cola/permits/1108972032_1606233064.34/0/client-java-10-0-0-sources-
jar/io/kubernetes/client/informer/EventType.java
* /opt/cola/permits/1108972032_1606233064.34/0/client-java-10-0-0-sources-
jar/io/kubernetes/client/util/labels/SetMatcher.java
* /opt/cola/permits/1108972032_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/Copy.java
* /opt/cola/permits/1108972032_1606233064.34/0/client-java-10-0-0-sources-
jar/io/kubernetes/client/informer/SharedIndexInformer.java
* /opt/cola/permits/1108972032_1606233064.34/0/client-java-10-0-0-sources-
jar/io/kubernetes/client/util/labels/LabelSelector.java
* /opt/cola/permits/1108972032_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/Attach.java
* /opt/cola/permits/1108972032_1606233064.34/0/client-java-10-0-0-sources-
jar/io/kubernetes/client/TreeNode.java
* /opt/cola/permits/1108972032_1606233064.34/0/client-java-10-0-0-sources-
jar/io/kubernetes/client/util/generic/GenericKubernetesApi.java
* /opt/cola/permits/1108972032_1606233064.34/0/client-java-10-0-0-sources-
jar/io/kubernetes/client/informer/SharedInformerFactory.java
*
/opt/cola/permits/1108972032_1606233064.34/0/client-java-10-0-0-sources-
jar/io/kubernetes/client/util/generic/options/UpdateOptions.java
* /opt/cola/permits/1108972032_1606233064.34/0/client-java-10-0-0-sources-
jar/io/kubernetes/client/util/credentials/TokenFileAuthentication.java
* /opt/cola/permits/1108972032_1606233064.34/0/client-java-10-0-0-sources-
jar/io/kubernetes/client/informer/cache/Controller.java
* /opt/cola/permits/1108972032_1606233064.34/0/client-java-10-0-0-sources-
jar/io/kubernetes/client/util/version/Version.java
* /opt/cola/permits/1108972032_1606233064.34/0/client-java-10-0-0-sources-
jar/io/kubernetes/client/apimachinery/KubernetesVerb.java
* /opt/cola/permits/1108972032_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/Metrics.java
* /opt/cola/permits/1108972032_1606233064.34/0/client-java-10-0-0-sources-
jar/io/kubernetes/client/util/generic/KubernetesApiResponse.java
*
/opt/cola/permits/1108972032_1606233064.34/0/client-java-10-0-0-sources-
jar/io/kubernetes/client/util/credentials/UsernamePasswordAuthentication.java
* /opt/cola/permits/1108972032_1606233064.34/0/client-java-10-0-0-sources-
jar/io/kubernetes/client/KubernetesConstants.java
* /opt/cola/permits/1108972032_1606233064.34/0/client-java-10-0-0-sources-

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jar/io/kubernetes/client/apimachinery/GroupVersion.java  
\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/Yaml.java  
\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/apimachinery/KubernetesRequestDigest.java  
\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/CallGenerator.java  
\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/labels/LabelMatcher.java  
\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/authenticators/AzureActiveDirectoryAuthenticator.java  
\*  
/opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/PortForward.java  
\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/informer/cache/ProcessorListener.java  
\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/informer/cache/Lister.java  
\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/generic/options/PatchOptions.java  
\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/apimachinery/GroupVersionKind.java  
\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/generic/options/ListOptions.java  
\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/Exec.java  
\*  
/opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/labels/Labels.java  
\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/generic/options/CreateOptions.java  
\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/apimachinery/GroupVersionResource.java  
\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/informer/cache/Cache.java  
\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/ObjectAccessor.java  
\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/credentials/ClientCertificateAuthentication.java  
\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/annotations/Annotations.java  
\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/Watchable.java  
\*  
/opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/ModelMapper.java  
\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/PatchUtils.java  
\* /opt/cola/permits/1108972032\_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/util/ProxyContentTypeRequestBody.java

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* /opt/cola/permits/1108972032_1606233064.34/0/client-java-10-0-0-sources-
jar/io/kubernetes/client/util/credentials/AccessTokenAuthentication.java
* /opt/cola/permits/1108972032_1606233064.34/0/client-java-10-0-0-sources-
jar/io/kubernetes/client/informer/cache/DeltaFIFO.java
* /opt/cola/permits/1108972032_1606233064.34/0/client-java-10-0-0-sources-
jar/io/kubernetes/client/util/authenticators/GCPAuthenticator.java
* /opt/cola/permits/1108972032_1606233064.34/0/client-java-10-0-0-sources-
jar/io/kubernetes/client/util/generic/options/DeleteOptions.java
* /opt/cola/permits/1108972032_1606233064.34/0/client-java-10-0-0-sources-jar/io/kubernetes/client/PodLogs.java
```

# 1.482 builder-annotations 0.22.0

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```

Found in path(s):

```
* /opt/cola/permits/1108972006_1606233066.8/0/builder-annotations-0-22-0-sources-
jar/io/sundr/builder/annotations/Adapter.java
* /opt/cola/permits/1108972006_1606233066.8/0/builder-annotations-0-22-0-sources-
jar/io/sundr/builder/internal/resources/ValidationUtils.java
*
/opt/cola/permits/1108972006_1606233066.8/0/builder-annotations-0-22-0-sources-
jar/io/sundr/builder/internal/functions/Construct.java
* /opt/cola/permits/1108972006_1606233066.8/0/builder-annotations-0-22-0-sources-
jar/io/sundr/builder/internal/functions/ToPojo.java
```

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```

Found in path(s):

```
* /opt/cola/permits/1108972006_1606233066.8/0/builder-annotations-0-22-0-sources-
jar/io/sundr/builder/internal/visitors/InitEnricher.java
```

```
* /opt/cola/permits/1108972006_1606233066.8/0/builder-annotations-0-22-0-sources-
jar/io/sundr/builder/annotations/Pojo.java
```

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```

Found in path(s):

```
* /opt/cola/permits/1108972006_1606233066.8/0/builder-annotations-0-22-0-sources-
jar/io/sundr/builder/annotations/FilterDescendants.java
```

```
* /opt/cola/permits/1108972006_1606233066.8/0/builder-annotations-0-22-0-sources-
jar/io/sundr/builder/annotations/IgnoreDescendants.java
```

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```

```
io.sundr.builder.internal.processor.BuildableProcessor
io.sundr.builder.internal.processor.ExternalBuildableProcessor
```

Found in path(s):

```
* /opt/cola/permits/1108972006_1606233066.8/0/builder-annotations-0-22-0-sources-jar/META-INF/services/javax.annotation.processing.Processor
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Found in path(s):

```
* /opt/cola/permits/1108972006_1606233066.8/0/builder-annotations-0-22-0-sources-jar/io/sundr/builder/internal/functions/Descendants.java
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Found in path(s):

- \* /opt/cola/permits/1108972006\_1606233066.8/0/builder-annotations-0-22-0-sources-jar/io/sundr/builder/annotations/BuildableReference.java
- \* /opt/cola/permits/1108972006\_1606233066.8/0/builder-annotations-0-22-0-sources-jar/io/sundr/builder/Constants.java
- \* /opt/cola/permits/1108972006\_1606233066.8/0/builder-annotations-0-22-0-sources-jar/io/sundr/builder/internal/functions/ToMethod.java
- \*
- /opt/cola/permits/1108972006\_1606233066.8/0/builder-annotations-0-22-0-sources-jar/io/sundr/builder/internal/BuildableRepository.java
- \* /opt/cola/permits/1108972006\_1606233066.8/0/builder-annotations-0-22-0-sources-jar/io/sundr/builder/annotations/Buildable.java
- \* /opt/cola/permits/1108972006\_1606233066.8/0/builder-annotations-0-22-0-sources-jar/io/sundr/builder/internal/functions/ClazzAs.java
- \* /opt/cola/permits/1108972006\_1606233066.8/0/builder-annotations-0-22-0-sources-jar/io/sundr/builder/annotations/Inline.java
- \* /opt/cola/permits/1108972006\_1606233066.8/0/builder-annotations-0-22-0-sources-jar/io/sundr/builder/internal/processor/ExternalBuildableProcessor.java
- \* /opt/cola/permits/1108972006\_1606233066.8/0/builder-annotations-0-22-0-sources-jar/io/sundr/builder/annotations/ExternalBuildables.java
- \* /opt/cola/permits/1108972006\_1606233066.8/0/builder-annotations-0-22-0-sources-jar/io/sundr/builder/internal/processor/BuildableProcessor.java
- \*
- /opt/cola/permits/1108972006\_1606233066.8/0/builder-annotations-0-22-0-sources-jar/io/sundr/builder/internal/processor/AbstractBuilderProcessor.java
- \* /opt/cola/permits/1108972006\_1606233066.8/0/builder-annotations-0-22-0-sources-jar/io/sundr/builder/internal/BuilderContextManager.java
- \* /opt/cola/permits/1108972006\_1606233066.8/0/builder-annotations-0-22-0-sources-jar/io/sundr/builder/internal/utils/BuilderUtils.java
- \* /opt/cola/permits/1108972006\_1606233066.8/0/builder-annotations-0-22-0-sources-jar/io/sundr/builder/internal/functions/PropertyAs.java
- \* /opt/cola/permits/1108972006\_1606233066.8/0/builder-annotations-0-22-0-sources-jar/io/sundr/builder/internal/functions/TypeAs.java
- \* /opt/cola/permits/1108972006\_1606233066.8/0/builder-annotations-0-22-0-sources-jar/io/sundr/builder/internal/BuilderContext.java

## 1.483 sundr-core 0.22.0

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\* /opt/cola/permits/1108972039\_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/builder/Function.java

\* /opt/cola/permits/1108972039\_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/FunctionFactory.java

\* /opt/cola/permits/1108972039\_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/builder/TypedVisitor.java

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\* /opt/cola/permits/1108972039\_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/builder/Fluent.java

\* /opt/cola/permits/1108972039\_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/SundrException.java

\* /opt/cola/permits/1108972039\_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/Function.java

\*

/opt/cola/permits/1108972039\_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/builder/Nested.java  
\* /opt/cola/permits/1108972039\_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/builder/VisitableBuilder.java  
\* /opt/cola/permits/1108972039\_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/builder/BaseFluent.java  
\* /opt/cola/permits/1108972039\_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/builder/Editable.java  
\* /opt/cola/permits/1108972039\_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/builder/Visitor.java  
\* /opt/cola/permits/1108972039\_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/builder/Builder.java  
\* /opt/cola/permits/1108972039\_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/builder/Visitable.java  
\* /opt/cola/permits/1108972039\_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/builder/Inlineable.java  
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jar/io/sundr/builder/VisitableMap.java
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* /opt/cola/permits/1108972039_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/Provider.java
```

```
* /opt/cola/permits/1108972039_1606233056.68/0/sundr-core-0-22-0-sources-  
jar/io/sundr/builder/PathAwareTypedVisitor.java
```

```
* /opt/cola/permits/1108972039_1606233056.68/0/sundr-core-0-22-0-sources-jar/io/sundr/builder/Predicate.java
```

## 1.484 sundr-codegen 0.22.0

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\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-jar/io/sundr/codegen/model/SourceFluentImpl.java

\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-jar/io/sundr/codegen/model/AnnotationRef.java

\*

/opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-jar/io/sundr/codegen/model/SourceFluent.java

\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-jar/io/sundr/codegen/functions/Optionals.java

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\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-jar/io/sundr/codegen/utils/Setter.java

\*

/opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-jar/io/sundr/codegen/utils/Getter.java

\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-jar/io/sundr/codegen/annotations/ResourceSelector.java

\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-jar/io/sundr/codegen/Constants.java

\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-jar/io/sundr/codegen/annotations/AnnotationSelector.java

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jar/io/sundr/codegen/functions/Pluralize.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/ReplacePackage.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/model/TypeParamRef.java
*
/opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/functions/StringReplace.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/model/VoidRef.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/converters/parser/TypeParameterToJavaType.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/functions/Sources.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/model/TypeRef.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/converters/TypeDefElementVisitor.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/model/Node.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/model/StringStatement.java
*
/opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/converters/parser/ClassOrInterfaceTypeToTypeDef.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/model/PrimitiveRef.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
```

jar/io/sundr/codegen/model/Method.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/model/Block.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/model/Attributeable.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/model/ModifierSupport.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/model/TypeParamDef.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/model/EditableSource.java  
\*  
/opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/CodegenContext.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/generator/CodeGeneratorContext.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/functions/Singularize.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/model/ClassRef.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/model/Statement.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/functions/ClassTo.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/model/Source.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/model/ParameterReference.java  
\*  
/opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/utils/IOUtils.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/model/TypeDef.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/DefinitionRepository.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/converters/TypeRefTypeVisitor.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/functions/ElementTo.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/model/SourceBuilder.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/converters/parser/DeclarationToJavaClazz.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/model/Kind.java  
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\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-jar/io/sundr/codegen/directives/FieldDirective.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-jar/io/sundr/codegen/directives/SingularizeDirective.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-jar/io/sundr/codegen/directives/MethodDirective.java  
\*  
/opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-jar/io/sundr/codegen/processor/JavaGeneratingProcessor.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-jar/io/sundr/codegen/model/AttributeSupport.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-jar/io/sundr/codegen/utils/TypeUtils.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-jar/io/sundr/codegen/utils/StringUtils.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-jar/io/sundr/codegen/directives/ClassDirective.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-jar/io/sundr/codegen/generator/GeneratorUtils.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-jar/io/sundr/codegen/generator/CodeGenerator.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-jar/io/sundr/codegen/generator/CodeGeneratorBuilder.java  
\*  
/opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-jar/io/sundr/codegen/generator/CodeGeneratorFluent.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-jar/io/sundr/codegen/utils/ModelUtils.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-jar/io/sundr/codegen/directives/PluralizeDirective.java  
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```
/*
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 */
```

Found in path(s):

```
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/model/TypeDefBuilder.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/model/VoidRefFluent.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
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*
  /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/model/BlockBuilder.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/model/MethodBuilder.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/model/PrimitiveRefBuilder.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/model/TypeParamDefBuilder.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/model/StringStatementFluent.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/model/EditableVoidRef.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/model/AttributeSupportBuilder.java
*
  /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
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* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/model/MethodFluent.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/model/EditableTypeParamDef.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/model/EditableMethod.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
```

jar/io/sundr/codegen/model/EditableAttributeSupport.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/model/EditableStringStatement.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
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\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
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\*  
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\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/model/Property.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/model/TypeParamRefFluent.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/model/AttributeSupportFluent.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
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\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
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\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/model/AnnotationRefFluent.java  
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jar/io/sundr/codegen/model/EditableTypeDef.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/model/EditableWildcardRef.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/model/AttributeSupportFluentImpl.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/model/VoidRefFluentImpl.java  
\*  
/opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/model/EditableModifierSupport.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/model/PrimitiveRefFluentImpl.java  
\* /opt/cola/permits/1108972000\_1606233065.44/0/sundr-codegen-0-22-0-sources-  
jar/io/sundr/codegen/model/WildcardRef.java

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* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/model/PrimitiveRefFluent.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/model/ModifierSupportBuilder.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/model/EditableClassRef.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/model/MethodFluentImpl.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/model/BlockFluentImpl.java
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/opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
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* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
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* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
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* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
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* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/model/ModifierSupportFluent.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/model/ModifierSupportFluentImpl.java
*
/opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/model/TypeParamRefFluentImpl.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/model/TypeDefFluentImpl.java
* /opt/cola/permits/1108972000_1606233065.44/0/sundr-codegen-0-22-0-sources-
jar/io/sundr/codegen/model/EditableTypeParamRef.java

```

# 1.485 client-java-proto 10.0.0

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```
/*
```

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\*/

Found in path(s):

\* /opt/cola/permits/1108972019\_1606233068.66/0/client-java-proto-10-0-0-sources-jar/io/kubernetes/client/proto/V1beta1Certificates.java

\* /opt/cola/permits/1108972019\_1606233068.66/0/client-java-proto-10-0-0-sources-jar/io/kubernetes/client/proto/V1Authentication.java

\* /opt/cola/permits/1108972019\_1606233068.66/0/client-java-proto-10-0-0-sources-jar/io/kubernetes/client/proto/V1beta1Batch.java

\*

/opt/cola/permits/1108972019\_1606233068.66/0/client-java-proto-10-0-0-sources-jar/io/kubernetes/client/proto/V1Storage.java

\* /opt/cola/permits/1108972019\_1606233068.66/0/client-java-proto-10-0-0-sources-jar/io/kubernetes/client/proto/V1beta2Apps.java

\* /opt/cola/permits/1108972019\_1606233068.66/0/client-java-proto-10-0-0-sources-jar/io/kubernetes/client/proto/V1beta1Policy.java

\* /opt/cola/permits/1108972019\_1606233068.66/0/client-java-proto-10-0-0-sources-jar/io/kubernetes/client/proto/V1beta1Storage.java

\* /opt/cola/permits/1108972019\_1606233068.66/0/client-java-proto-10-0-0-sources-jar/io/kubernetes/client/proto/RuntimeSchema.java

\* /opt/cola/permits/1108972019\_1606233068.66/0/client-java-proto-10-0-0-sources-jar/io/kubernetes/client/proto/V1Rbac.java

\* /opt/cola/permits/1108972019\_1606233068.66/0/client-java-proto-10-0-0-sources-jar/io/kubernetes/client/proto/V1.java

\* /opt/cola/permits/1108972019\_1606233068.66/0/client-java-proto-10-0-0-sources-jar/io/kubernetes/client/proto/V1Batch.java

\*

/opt/cola/permits/1108972019\_1606233068.66/0/client-java-proto-10-0-0-sources-jar/io/kubernetes/client/proto/V2beta2Autoscaling.java

\* /opt/cola/permits/1108972019\_1606233068.66/0/client-java-proto-10-0-0-sources-jar/io/kubernetes/client/proto/V1alpha1Admission.java

\* /opt/cola/permits/1108972019\_1606233068.66/0/client-java-proto-10-0-0-sources-jar/io/kubernetes/client/proto/Meta.java

\* /opt/cola/permits/1108972019\_1606233068.66/0/client-java-proto-10-0-0-sources-jar/io/kubernetes/client/proto/Resource.java

\* /opt/cola/permits/1108972019\_1606233068.66/0/client-java-proto-10-0-0-sources-jar/io/kubernetes/client/proto/V1Apps.java

\* /opt/cola/permits/1108972019\_1606233068.66/0/client-java-proto-10-0-0-sources-jar/io/kubernetes/client/proto/V1Authorization.java

\* /opt/cola/permits/1108972019\_1606233068.66/0/client-java-proto-10-0-0-sources-jar/io/kubernetes/client/proto/V1Networking.java

\* /opt/cola/permits/1108972019\_1606233068.66/0/client-java-proto-10-0-0-sources-jar/io/kubernetes/client/proto/V1Autoscaling.java

\*

```

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jar/io/kubernetes/client/proto/V1beta1Authentication.java
* /opt/cola/permits/1108972019_1606233068.66/0/client-java-proto-10-0-0-sources-
jar/io/kubernetes/client/proto/V1beta1Apps.java
* /opt/cola/permits/1108972019_1606233068.66/0/client-java-proto-10-0-0-sources-
jar/io/kubernetes/client/proto/V2beta1Autoscaling.java
* /opt/cola/permits/1108972019_1606233068.66/0/client-java-proto-10-0-0-sources-
jar/io/kubernetes/client/proto/Runtime.java
* /opt/cola/permits/1108972019_1606233068.66/0/client-java-proto-10-0-0-sources-
jar/io/kubernetes/client/proto/V1beta1Admission.java
* /opt/cola/permits/1108972019_1606233068.66/0/client-java-proto-10-0-0-sources-
jar/io/kubernetes/client/proto/V2alpha1Batch.java
* /opt/cola/permits/1108972019_1606233068.66/0/client-java-proto-10-0-0-sources-
jar/io/kubernetes/client/proto/V1beta1Extensions.java
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/opt/cola/permits/1108972019_1606233068.66/0/client-java-proto-10-0-0-sources-
jar/io/kubernetes/client/proto/IntStr.java
* /opt/cola/permits/1108972019_1606233068.66/0/client-java-proto-10-0-0-sources-
jar/io/kubernetes/client/proto/V1alpha1Imagepolicy.java
* /opt/cola/permits/1108972019_1606233068.66/0/client-java-proto-10-0-0-sources-
jar/io/kubernetes/client/proto/V1beta1Rbac.java
* /opt/cola/permits/1108972019_1606233068.66/0/client-java-proto-10-0-0-sources-
jar/io/kubernetes/client/proto/V1beta1Admissionregistration.java
* /opt/cola/permits/1108972019_1606233068.66/0/client-java-proto-10-0-0-sources-
jar/io/kubernetes/client/proto/V1alpha1Rbac.java
* /opt/cola/permits/1108972019_1606233068.66/0/client-java-proto-10-0-0-sources-
jar/io/kubernetes/client/proto/V1beta1Authorization.java
* /opt/cola/permits/1108972019_1606233068.66/0/client-java-proto-10-0-0-sources-
jar/io/kubernetes/client/proto/V1alpha1Scheduling.java
* /opt/cola/permits/1108972019_1606233068.66/0/client-java-proto-10-0-0-sources-
jar/io/kubernetes/client/proto/V1alpha1Settings.java
*
/opt/cola/permits/1108972019_1606233068.66/0/client-java-proto-10-0-0-sources-
jar/io/kubernetes/client/proto/V1beta1Apiextensions.java
* /opt/cola/permits/1108972019_1606233068.66/0/client-java-proto-10-0-0-sources-
jar/io/kubernetes/client/proto/V1alpha1Admissionregistration.java

```

# 1.486 cups 2.2.10-6+deb10u4

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## END OF TERMS AND CONDITIONS

### Appendix: 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) 19yy <name of author>
```

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

```
This program is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of
```



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

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

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

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

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<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.]

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

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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

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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.

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

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

- 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.

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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.

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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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# 1.487 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

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jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ContiguousSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/net/package-
info.java
*
/opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/Strings.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/Ascii.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/SortedLists.java
```

```
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
*
/opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/Atomic.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/annotations/package-info.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/annotations/Beta.java
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jar/com/google/common/collect/ForwardingDeque.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/TransformedIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
*
/opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/FilteredKeySetMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ForwardingNavigableSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/TransformedListIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ForwardingBlockingDeque.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
```



jar/com/google/common/collect/ForwardingImmutableList.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/AbstractMultimap.java  
\*  
/opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/CompactHashSet.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/FilteredKeyListMultimap.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/RangeMap.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/SortedMultisetBridge.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/FilteredMultimap.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/UnmodifiableSortedMultiset.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/TreeRangeMap.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/RegularImmutableAsList.java  
\*  
/opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/DescendingImmutableSortedSet.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/FilteredEntrySetMultimap.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/ForwardingImmutableMap.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/AllEqualOrdering.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/ForwardingImmutableSet.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/CompactLinkedHashSet.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/AbstractNavigableMap.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/FilteredSetMultimap.java  
\*  
/opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/CompactLinkedHashMap.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/EvictingQueue.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/FilteredEntryMultimap.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/ImmutableEnumMap.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/ForwardingNavigableMap.java

```
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/DescendingMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/CompactHashMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/TreeTraverser.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/reflect/Reflection.java
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```

```
*/
```

```
/**
```

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

```
*/
```

Found in path(s):

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/ExtraObjectsMethodsForWeb.java  
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\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/MultiReader.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ListenableFutureTask.java

\*

/opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/FluentIterable.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/FileBackedOutputStream.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/Bytes.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/Ints.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Stopwatch.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/Chars.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/Shorts.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/Longs.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/escape/UnicodeEscaper.java

\*

/opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/escape/Escaper.java

```
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/internal/Finalizer.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/Converter.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/primitives/Floats.java
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```

```
*/
```

```
/**
```

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

```
*/
```

```
Found in path(s):
```

```
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/primitives/IntsMethodsForWeb.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/BaseImmutableMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/JdkBackedImmutableMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/JdkBackedImmutableBiMap.java
*
```

```
/opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/IndexedImmutableSet.java
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```

```
*/
```

```
/**
```

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

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
```

jar/com/google/common/primitives/ShortsMethodsForWeb.java  
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```
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jar/com/google/common/util/concurrent/DirectExecutor.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/Interners.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/io/MultiInputStream.java
*
/opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/eventbus/Subscribe.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/EnumMultiset.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/Function.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/eventbus/AsyncEventBus.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/Defaults.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/Files.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/eventbus/EventBus.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/io/CountingInputStream.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/io/Flushables.java
*
/opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/FinalizableReference.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/package-
info.java
```

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Predicate.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/CountingOutputStream.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/FinalizableSoftReference.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Throwables.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ListenableFuture.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/package-info.java  
\*  
/opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/package-info.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/package-info.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/FinalizableWeakReference.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/ByteStreams.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/AllowConcurrentEvents.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/LineBuffer.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/LittleEndianDataOutputStream.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Preconditions.java  
\*  
/opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/CharStreams.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Functions.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/FinalizablePhantomReference.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/LittleEndianDataInputStream.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Charsets.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/Closeables.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/Primitives.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Suppliers.java  
\*

/opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/Resources.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Objects.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Supplier.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/AbstractFuture.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/AbstractIterator.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/HashBiMap.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/FinalizableReferenceQueue.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/LineReader.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/DeadEvent.java  
\*  
/opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Predicates.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ExecutionList.java  
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\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/IncidentEdgeSet.java  
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/StandardTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/HashBasedTable.java
*
 /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/Collections2.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ImmutableListMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/RegularImmutableBiMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ImmutableMapEntrySet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/UnmodifiableIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ImmutableCollection.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/Serialization.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/EmptyImmutableListMultimap.java
*
 /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/PeekingIterator.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ImmutableMapValues.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/Table.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
```

```
jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ImmutableEntry.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ImmutableMapKeySet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ImmutableMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ImmutableSortedSet.java
*
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/CollectPreconditions.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ImmutableMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ImmutableBiMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/Tables.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/Range.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/StandardRowSortedTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/SingletonImmutableBiMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/TreeBasedTable.java
*
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/Platform.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/RegularImmutableMap.java
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\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/CommonPattern.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/JdkPattern.java

\*

/opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/CommonMatcher.java

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/\*\*

\* Outer class that exists solely to let us write { @code Partially.GwtIncompatible } instead of plain { @code GwtIncompatible }. This is more accurate for { @link Futures#catching }, which is available under GWT but with a slightly different signature.

\*

\* <p>We can't use { @code PartiallyGwtIncompatible } because then the GWT compiler wouldn't recognize

\* it as a { @code GwtIncompatible } annotation. And for { @code Futures.catching }, we need the GWT compiler to autostrip the normal server method in order to expose the special, inherited GWT version.

\*/

Found in path(s):

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/Partially.java

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jar/com/google/common/collect/CollectSpliterators.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/graph/package-info.java

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/\*\*

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

\*/

Found in path(s):

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/primitives/DoublesMethodsForWeb.java

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\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/io/ReaderInputStream.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/util/concurrent/CombinedFuture.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/util/concurrent/AggregateFutureState.java  
\*  
/opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/util/concurrent/AsyncCallable.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/ConsumingQueueIterator.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/hash/MacHashFunction.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/util/concurrent/InterruptibleTask.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/util/concurrent/Platform.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/hash/FarmHashFingerprint64.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/hash/LittleEndianByteArray.java  
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Found in path(s):

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/SortedMultisets.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/SortedMultiset.java

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Found in path(s):

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/MoreObjects.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/Dispatcher.java

\*

/opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ListenerCallQueue.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/Quantiles.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/Subscriber.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/SubscriberRegistry.java

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

Found in path(s):

```
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/Striped.java
```

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jar/com/google/common/hash/package-info.java
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jar/com/google/common/util/concurrent/ExecutionSequencer.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/hash/ImmutableSupplier.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/JdkBackedImmutableSet.java  
\*  
/opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/JdkBackedImmutableMultiset.java  
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\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/primitives/ImmutableLongArray.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/hash/AbstractHashFunction.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/util/concurrent/ForwardingCondition.java  
\*  
/opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/primitives/ImmutableIntArray.java



\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/ImmutableDoubleArray.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ForwardingLock.java  
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\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/Internal.java  
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\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/GwtTransient.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-

jar/com/google/common/util/concurrent/AtomicLongMap.java

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jar/com/google/common/collect/SortedIterable.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-

jar/com/google/common/collect/RangeSet.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-

jar/com/google/common/collect/SortedIterables.java

\*

/\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-

jar/com/google/common/collect/GeneralRange.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-

jar/com/google/common/collect/RegularImmutableSortedMultiset.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-

jar/com/google/common/collect/ImmutableSortedMultiset.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-

jar/com/google/common/collect/ForwardingSortedMultiset.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-

jar/com/google/common/collect/Count.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-

jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-

jar/com/google/common/collect/AbstractRangeSet.java

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jar/com/google/common/collect/Streams.java
```

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*/
```

```
/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned
array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODO(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */
```

Found in path(s):

```
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ObjectArrays.java
```

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```
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jar/com/google/common/graph/ImmutableGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/Network.java
*
/opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/io/RecursiveDeleteOption.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/MutableNetwork.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/PredecessorsFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/TopKSelector.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/ImmutableNetwork.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/Graph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/io/InsecureRecursiveDeleteException.java
*
/opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/Graphs.java
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```

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jar/com/google/common/io/CharSequenceReader.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/util/concurrent/Runnables.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/FilteredMultimapValues.java  
\*  
/opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/base/Utf8.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/hash/HashingInputStream.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/AbstractTable.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/reflect/TypeVisitor.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/base/VerifyException.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/eventbus/SubscriberExceptionHandler.java  
\*  
/opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/base/Verify.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/eventbus/SubscriberExceptionContext.java  
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express
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*/
/**
* Holder for web specializations of methods of { @code Floats }. Intended to be empty for regular
* version.
*/
```

Found in path(s):

```
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/primitives/FloatsMethodsForWeb.java
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*/
/*
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
* following header:
*
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*/
```

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jar/com/google/common/collect/ImmutableMapEntry.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/io/MoreFiles.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/MultimapBuilder.java
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 * which contained the following notice:
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\*

\* Other contributors include Andrew Wright, Jeffrey Hayes, Pat Fisher, Mike Judd.

\*/

Found in path(s):

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/MoreExecutors.java

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Found in path(s):

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/StandardMutableValueGraph.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/AbstractGraph.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/StandardNetwork.java

\*

/opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/MutableValueGraph.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/MapRetrievalCache.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/AbstractGraphBuilder.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/EndpointPairIterator.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/CollectCollectors.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/GraphBuilder.java



\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/GraphConnections.java  
\*  
/opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/DirectedGraphConnections.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/EndpointPair.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/ForwardingGraph.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/NetworkConnections.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/ForwardingNetwork.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/MultiEdgesConnecting.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/RangeGwtSerializationDependencies.java  
\*  
/opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/ForwardingValueGraph.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/AbstractValueGraph.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/MapIteratorCache.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/ValueGraphBuilder.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/AbstractNetwork.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java  
\*  
/opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/ValueGraph.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/NetworkBuilder.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/UndirectedNetworkConnections.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/DirectedNetworkConnections.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/StandardMutableNetwork.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-

```
jar/com/google/common/graph/StandardValueGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/DirectedMultiNetworkConnections.java
*
/opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/EdgesConnecting.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/StandardMutableGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/UndirectedGraphConnections.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/GraphConstants.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/MoreCollectors.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/Comparators.java
*
/opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/ImmutableValueGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/graph/ElementOrder.java
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```
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/MinMaxPriorityQueue.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/SortedMapDifference.java
```

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/RowSortedTable.java

\*

/opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ForwardingImmutableCollection.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ForwardingSortedSetMultimap.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/AbstractSequentialIterator.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/UnmodifiableListIterator.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ForwardingSetMultimap.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ForwardingListMultimap.java

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\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/LongAddables.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/StatsAccumulator.java

\*

/opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/TypeToInstanceMap.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/Element.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/ByteSink.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/FileWriteMode.java

\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/escape/package-info.java  
 \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/PairedStatsAccumulator.java  
 \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/SipHashFunction.java  
 \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/AbstractByteHasher.java  
 \*  
 /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/CharSink.java  
 \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/html/package-info.java  
 \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/ChecksumHashFunction.java  
 \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/LongAddable.java  
 \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableRangeSet.java  
 \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/package-info.java  
 \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/LinearTransformation.java  
 \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/MutableTypeToInstanceMap.java  
 \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/CartesianList.java  
 \*  
 /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/ByteSource.java  
 \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java  
 \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/FilteredKeyMultimap.java  
 \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/LongAddable.java  
 \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableRangeMap.java  
 \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/BaseEncoding.java  
 \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/AbstractInvocationHandler.java  
 \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/CharSource.java  
 \*  
 /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/ClassPath.java  
 \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-

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jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/Closer.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/hash/LongAddables.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/ServiceManager.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/math/PairedStats.java
*
/opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/reflect/TypeCapture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/xml/package-
info.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/math/Stats.java
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*/
/**
* Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
* key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
* version.
*
* @throws UnsupportedOperationException always
* @deprecated <b>Pass a key of type {@code Comparable}

```

to use { @link

```
* ImmutableSortedMap#of(Comparable, Object)}.</b>  
*/
```

Found in path(s):

```
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java  
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```
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/cache/RemovalListener.java
```

```
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/AbstractSortedMultiset.java
```

```
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/hash/HashingOutputStream.java
```

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/opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/math/IntMath.java
```

```
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/primitives/UnsignedLongs.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/base/FunctionalEquivalence.java
```

```
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/math/LongMath.java
```

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/hash/PrimitiveSink.java
```

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/hash/HashFunction.java
```

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/base/Present.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/collect/EmptyContiguousSet.java
```

\*  
/opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/cache/CacheStats.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/hash/Hasher.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/base/Enums.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/cache/LoadingCache.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/hash/Murmur3\_128HashFunction.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/hash/BloomFilterStrategies.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/math/MathPreconditions.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/cache/RemovalNotification.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/cache/RemovalCause.java  
\*  
/opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/util/concurrent/ExecutionError.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/net/MediaType.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
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\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/net/HttpHeaders.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/base/Ticker.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/base/PairwiseEquivalence.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/cache/AbstractLoadingCache.java  
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/opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
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\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
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\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/util/concurrent/ForwardingExecutorService.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-  
jar/com/google/common/reflect/TypeParameter.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-

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jar/com/google/common/math/DoubleMath.java
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jar/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/reflect/Types.java
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/opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/cache/ForwardingCache.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/hash/Funnels.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/AbstractCache.java  
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\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/Queues.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/AbstractStreamingHasher.java  
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\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/BigIntegerMath.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/CacheBuilderSpec.java  
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\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/FutureCallback.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/RemovalListeners.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/HashCode.java  
\*  
/opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/Cache.java  
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*/
/*
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
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jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/AggregateFuture.java
*
 /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/TimeoutFuture.java
*
 /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/TimeLimiter.java
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\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/FuturesGetChecked.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/AppendableWriter.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/Futures.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java

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/opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/FakeTimeLimiter.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/TypeToken.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/escape/CharEscaperBuilder.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/AbstractTransformFuture.java  
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\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/Striped64.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/LongAdder.java  
\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/AtomicDoubleArray.java

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- \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/AbstractSetMultimap.java
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- /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/AbstractMapBasedMultiset.java
- \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ForwardingSortedMap.java
- \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/HashMultimap.java
- \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ClassToInstanceMap.java
- \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/Iterators.java
- \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/LinkedHashMultimap.java
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- /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/TreeMultiset.java
- \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/MapDifference.java
- \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/UsingToStringOrdering.java
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\* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableList.java

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jar/com/google/common/collect/Multiset.java
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  - \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableSortedMap.java
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  - /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/DiscreteDomain.java
  - \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ComputationException.java
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  - \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/SingletonImmutableTable.java
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  - \* /opt/cola/permits/1110737159\_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/RegularImmutableSortedSet.java
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jar/com/google/common/collect/RegularImmutableTable.java

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## 20190430140413-ec5e00d3c878

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`http://ftpna2.bea.com/pub/downloads/jsr173.jar`

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`openjdk/j2se/make/java/nio/genExceptions.sh`

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version 1.2.5, July 18th, 2005

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---

```
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```

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Description: Makes the generated copyright headers reproducible

Author: Emmanuel Bourg <ebourg@apache.org>

Forwarded: no

```
--- a/make/jdk/src/classes/build/tools/cldrconverter/CopyrightHeaders.java
+++ b/make/jdk/src/classes/build/tools/cldrconverter/CopyrightHeaders.java
@@ -26,6 +26,7 @@
package build.tools.cldrconverter;
```

```
import java.util.Calendar;
+import java.util.Date;
import java.util.GregorianCalendar;
import java.util.Locale;
import java.util.TimeZone;
@@ -150,8 +151,14 @@
    }

    private static int getYear() {
-    return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),
-    Locale.US).get(Calendar.YEAR);
+    Date date = new Date();
+    if (System.getenv("SOURCE_DATE_EPOCH") != null) {
+    date = new Date(1000 * Long.valueOf(System.getenv("SOURCE_DATE_EPOCH")));
+    }
+    GregorianCalendar calendar = new GregorianCalendar(TimeZone.getTimeZone("UTC"), Locale.ENGLISH);
+    calendar.setTime(date);
+    }
```

```

        return calendar.get(Calendar.YEAR);
    }

    // no instantiation
--- a/make/jdk/src/classes/build/tools/generatelsrequivmaps/EquivMapsGenerator.java
+++ b/make/jdk/src/classes/build/tools/generatelsrequivmaps/EquivMapsGenerator.java
@@ -33,9 +33,13 @@
import java.time.ZoneId;
import java.time.ZonedDateTime;
import java.util.ArrayList;
+import java.util.Calendar;
+import java.util.Date;
+import java.util.GregorianCalendar;
import java.util.List;
import java.util.Locale;
import java.util.Map;
+import java.util.TimeZone;
import java.util.TreeMap;

/**
@@ -225,8 +229,15 @@
    + "}";

    private static String getOpenJDKCopyright() {
-    int year = ZonedDateTime.now(ZoneId
-        .of("America/Los_Angeles")).getYear();
+    Date date = new Date();
+    if (System.getenv("SOURCE_DATE_EPOCH") != null) {
+        date = new Date(1000 * Long.valueOf(System.getenv("SOURCE_DATE_EPOCH")));
+    }
+
+    GregorianCalendar
    calendar = new GregorianCalendar(TimeZone.getTimeZone("UTC"), Locale.ENGLISH);
+    calendar.setTime(date);
+
+    int year = calendar.get(Calendar.YEAR);
    return String.format(Locale.US, COPYRIGHT, year);
    }

```

# 1.501 apt 1.8.2.2

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## 1.504 jackson-databind 2.10.5.1

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# Jackson JSON processor

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

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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# 1.505 netty-transport 4.1.55.Final

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 */
/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its { @link ChannelPipeline }.
 *
 * <h3>Sub-types</h3>
 * <p>
 * { @link ChannelHandler } itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 * <ul>
 * <li>{ @link
 * ChannelInboundHandler } to handle inbound I/O events, and</li>
 * <li>{ @link ChannelOutboundHandler } to handle outbound I/O operations.</li>
 * </ul>
 * </p>
 * <p>
 * Alternatively, the following adapter classes are provided for your convenience:
 * <ul>
 * <li>{ @link ChannelInboundHandlerAdapter } to handle inbound I/O events,</li>
 * <li>{ @link ChannelOutboundHandlerAdapter } to handle outbound I/O operations, and</li>
 * <li>{ @link ChannelDuplexHandler } to handle both inbound and outbound events</li>
 * </ul>
 * </p>
 * <p>
```

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

\* </p>

\*

\* <h3>The context object</h3>

\* <p>

\* A { @link ChannelHandler } is provided with a { @link ChannelHandlerContext }

\* object. A { @link ChannelHandler } is supposed to interact with the

\* { @link ChannelPipeline } it belongs to via a context object. Using the

\* context object, the { @link ChannelHandler } can pass events upstream or

\* downstream, modify the pipeline dynamically,

or store the information

\* (using { @link AttributeKey }s) which is specific to the handler.

\*

\* <h3>State management</h3>

\*

\* A { @link ChannelHandler } often needs to store some stateful information.

\* The simplest and recommended approach is to use member variables:

\* <pre>

\* public interface Message {

\* // your methods here

\* }

\*

\* public class DataServerHandler extends { @link SimpleChannelInboundHandler } &lt;Message &gt; {

\*

\* <b>private boolean loggedIn;</b>

\*

\* { @code @Override }

\* public void channelRead0({ @link ChannelHandlerContext } ctx, Message message) {

\* if (message instanceof LoginMessage) {

\* authenticate((LoginMessage) message);

\* <b>loggedIn = true;</b>

\* } else (message instanceof GetDataMessage) {

\* if (<b>loggedIn</b>) {

\* ctx.writeAndFlush(fetchSecret((GetDataMessage) message));

\* } else {

\* fail();

\* }

\*

}

\* }

\*

...

\*

}

\* </pre>

\* Because the handler instance has a state variable which is dedicated to

\* one connection, you have to create a new handler instance for each new

\* channel to avoid a race condition where a unauthenticated client can get

\* the confidential information:

\* <pre>

```

* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
*
* </pre>
*
* <h4>Using {@link AttributeKey}s</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {@link AttributeKey}s which is provided by
* {@link ChannelHandlerContext}:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* {@code @Sharable}
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*     private final {@link AttributeKey}&lt;{@link Boolean}&gt; auth =
*         {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     {@code @Override}
*     public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
*         {@link Attribute}&lt;{@link Boolean}&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
* }
* ...
* }
* </pre>
*
* Now that the
* state of the handler is attached to the {@link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>

```

```

* public class DataServerInitializer extends { @link ChannelInitializer}&lt;&gt;{ @link Channel}&gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     { @code @Override}
*     public void initChannel({ @link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
* </pre>

```

\* <h4>The { @code @Sharable} annotation</h4>

\* <p>

\* In the example above which used an { @link AttributeKey},  
 \* you might have noticed the { @code @Sharable} annotation.

\* <p>

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

\* <p>

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

\* <p>

\* This annotation is provided for documentation purpose, just like  
 \* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.

\*

\* <h3>Additional resources worth reading</h3>

\* <p>

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

\*/

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    - /opt/cola/permits/1117259376\_1608163230.61/0/netty-transport-4-1-55-final-sources-jar/io/netty/channel/oio/OioEventLoopGroup.java
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    - \* /opt/cola/permits/1117259376\_1608163230.61/0/netty-transport-4-1-55-final-sources-jar/io/netty/channel/ChannelPipelineException.java
    - \* /opt/cola/permits/1117259376\_1608163230.61/0/netty-transport-4-1-55-final-sources-jar/io/netty/channel/socket/SocketChannelConfig.java
    - \* /opt/cola/permits/1117259376\_1608163230.61/0/netty-transport-4-1-55-final-sources-jar/io/netty/channel/DefaultFileRegion.java
    - \* /opt/cola/permits/1117259376\_1608163230.61/0/netty-transport-4-1-55-final-sources-jar/io/netty/channel/MultithreadEventLoopGroup.java
    - \* /opt/cola/permits/1117259376\_1608163230.61/0/netty-transport-4-1-55-final-sources-jar/io/netty/channel/CombinedChannelDuplexHandler.java
    - \* /opt/cola/permits/1117259376\_1608163230.61/0/netty-transport-4-1-55-final-sources-jar/io/netty/bootstrap/Bootstrap.java
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\* /opt/cola/permits/1117259376\_1608163230.61/0/netty-transport-4-1-55-final-sources-jar/io/netty/channel/ChannelMetadata.java  
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* /opt/cola/permits/1117259376_1608163230.61/0/netty-transport-4-1-55-final-sources-
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* /opt/cola/permits/1117259376_1608163230.61/0/netty-transport-4-1-55-final-sources-
jar/io/netty/channel/ChannelInboundHandler.java
* /opt/cola/permits/1117259376_1608163230.61/0/netty-transport-4-1-55-final-sources-
jar/io/netty/channel/local/LocalChannelRegistry.java
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* /opt/cola/permits/1117259376_1608163230.61/0/netty-transport-4-1-55-final-sources-
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jar/io/netty/channel/ChannelFuture.java
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\* /opt/cola/permits/1117259376\_1608163230.61/0/netty-transport-4-1-55-final-sources-jar/io/netty/channel/AbstractChannelHandlerContext.java  
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- \* /opt/cola/permits/1117259376\_1608163230.61/0/netty-transport-4-1-55-final-sources-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
- \* /opt/cola/permits/1117259376\_1608163230.61/0/netty-transport-4-1-55-final-sources-jar/io/netty/channel/ChannelProgressivePromise.java
- \* /opt/cola/permits/1117259376\_1608163230.61/0/netty-transport-4-1-55-final-sources-jar/io/netty/channel/ChannelHandlerAdapter.java
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- \* /opt/cola/permits/1117259376\_1608163230.61/0/netty-transport-4-1-55-final-sources-jar/io/netty/channel/group/ChannelGroupException.java
- \* /opt/cola/permits/1117259376\_1608163230.61/0/netty-transport-4-1-55-final-sources-jar/io/netty/channel/ChannelId.java
- \* /opt/cola/permits/1117259376\_1608163230.61/0/netty-transport-4-1-55-final-sources-jar/io/netty/channel/group/ChannelGroup.java
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- \* /opt/cola/permits/1117259376\_1608163230.61/0/netty-transport-4-1-55-final-sources-jar/io/netty/channel/DefaultMessageSizeEstimator.java
- \* /opt/cola/permits/1117259376\_1608163230.61/0/netty-transport-4-1-55-final-sources-jar/io/netty/channel/group/DefaultChannelGroup.java
- \* /opt/cola/permits/1117259376\_1608163230.61/0/netty-transport-4-1-55-final-sources-jar/io/netty/channel/ConnectTimeoutException.java
- \* /opt/cola/permits/1117259376\_1608163230.61/0/netty-transport-4-1-55-final-sources-jar/io/netty/channel/group/ChannelMatchers.java
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jar/io/netty/channel/MessageSizeEstimator.java
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jar/io/netty/channel/ChannelHandlerMask.java  
\* /opt/cola/permits/1117259376\_1608163230.61/0/netty-transport-4-1-55-final-sources-  
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jar/io/netty/channel/AbstractCoalescingBufferQueue.java

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jar/io/netty/channel/ChannelFactory.java

\* /opt/cola/permits/1117259376\_1608163230.61/0/netty-transport-4-1-55-final-sources-  
jar/io/netty/channel/AbstractEventLoop.java

\* /opt/cola/permits/1117259376\_1608163230.61/0/netty-transport-4-1-55-final-sources-  
jar/io/netty/channel/PendingWriteQueue.java

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/opt/cola/permits/1117259376\_1608163230.61/0/netty-transport-4-1-55-final-sources-  
jar/io/netty/channel/ReflectiveChannelFactory.java

\* /opt/cola/permits/1117259376\_1608163230.61/0/netty-transport-4-1-55-final-sources-  
jar/io/netty/channel/embedded/EmbeddedChannelId.java

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\* /opt/cola/permits/1117259376\_1608163230.61/0/netty-transport-4-1-55-final-sources-jar/io/netty/channel/socket/DuplexChannelConfig.java

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\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ssl/JdkSslServerContext.java

\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ssl/JettyNpnSslEngine.java

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\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java  
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\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java  
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\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ssl/OpenSslSessionStats.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ipfilter/package-info.java  
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\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java  
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jar/io/netty/handler/ssl/ocsp/package-info.java  
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jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java  
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\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ssl/SslContextBuilder.java  
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\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java  
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\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/flow/package-info.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java  
\*

/opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-

jar/io/netty/handler/flush/package-info.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/ssl/PemValue.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/ssl/PemEncoded.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/ssl/PemX509Certificate.java  
\*  
/opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/ssl/PemPrivateKey.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/ssl/DelegatingSslContext.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/ssl/Java8SslUtils.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/ssl/OpenSslCertificateException.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/flush/FlushConsolidationHandler.java  
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\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/traffic/package-info.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/traffic/TrafficCounter.java  
\*  
/opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java

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* /opt/cola/permits/1117259394_1608163308.58/0/netty-handler-4-1-55-final-sources-
jar/io/netty/handler/pcap/PcapHeaders.java
* /opt/cola/permits/1117259394_1608163308.58/0/netty-handler-4-1-55-final-sources-
jar/io/netty/handler/pcap/EthernetPacket.java
* /opt/cola/permits/1117259394_1608163308.58/0/netty-handler-4-1-55-final-sources-
jar/io/netty/handler/pcap/UDPPacket.java
*
/opt/cola/permits/1117259394_1608163308.58/0/netty-handler-4-1-55-final-sources-
jar/io/netty/handler/pcap/IPPacket.java
* /opt/cola/permits/1117259394_1608163308.58/0/netty-handler-4-1-55-final-sources-
jar/io/netty/handler/pcap/PcapWriter.java
* /opt/cola/permits/1117259394_1608163308.58/0/netty-handler-4-1-55-final-sources-
jar/io/netty/handler/pcap/package-info.java
* /opt/cola/permits/1117259394_1608163308.58/0/netty-handler-4-1-55-final-sources-
jar/io/netty/handler/pcap/TCPpacket.java
* /opt/cola/permits/1117259394_1608163308.58/0/netty-handler-4-1-55-final-sources-
jar/io/netty/handler/pcap/PcapWriteHandler.java
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\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java  
\*  
/opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/ssl/PseudoRandomFunction.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/address/package-info.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/ssl/SslMasterKeyHandler.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/ssl/KeyManagerFactoryWrapper.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/address/DynamicAddressConnectHandler.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/ssl/TrustManagerFactoryWrapper.java  
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\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/traffic/AbstractTrafficShapingHandler.java

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 */
// Try the OpenJDK's proprietary implementation.
```

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```
* /opt/cola/permits/1117259394_1608163308.58/0/netty-handler-4-1-55-final-sources-
jar/io/netty/handler/ssl/util/SelfSignedCertificate.java
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```
* /opt/cola/permits/1117259394_1608163308.58/0/netty-handler-4-1-55-final-sources-
jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/cola/permits/1117259394_1608163308.58/0/netty-handler-4-1-55-final-sources-
jar/io/netty/handler/ssl/OpenSslPrivateKey.java
*
```

```
/opt/cola/permits/1117259394_1608163308.58/0/netty-handler-4-1-55-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
```

\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ssl/OpenSslSession.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java  
\*

/opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java

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\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/timeout/WriteTimeoutException.java

\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/timeout/TimeoutException.java

\*

/opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-jar/io/netty/handler/stream/ChunkedFile.java

\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-

jar/io/netty/handler/timeout/IdleStateHandler.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/stream/package-info.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/timeout/package-info.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/timeout/ReadTimeoutException.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/timeout/WriteTimeoutHandler.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/timeout/IdleState.java  
\*  
/opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/ssl/package-info.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/stream/ChunkedNioStream.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/stream/ChunkedInput.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/logging/package-info.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/stream/ChunkedStream.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/logging/LogLevel.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/ssl/SslHandler.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/ssl/util/package-info.java  
\*  
/opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/timeout/ReadTimeoutHandler.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/stream/ChunkedWriteHandler.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/stream/ChunkedNioFile.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/ssl/NotSslRecordException.java  
\* /opt/cola/permits/1117259394\_1608163308.58/0/netty-handler-4-1-55-final-sources-  
jar/io/netty/handler/timeout/IdleStateEvent.java  
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\* /opt/cola/permits/1117259316\_1608163224.83/0/netty-resolver-4-1-55-final-sources-jar/io.netty/resolver/RoundRobinInetAddressResolver.java

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\* /opt/cola/permits/1117259316\_1608163224.83/0/netty-resolver-4-1-55-final-sources-jar/io/netty/resolver/HostsFileEntries.java  
\* /opt/cola/permits/1117259316\_1608163224.83/0/netty-resolver-4-1-55-final-sources-jar/io/netty/resolver/ResolvedAddressTypes.java

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\* /opt/cola/permits/1117259316\_1608163224.83/0/netty-resolver-4-1-55-final-sources-jar/io/netty/resolver/NoopAddressResolver.java  
\* /opt/cola/permits/1117259316\_1608163224.83/0/netty-resolver-4-1-55-final-sources-jar/io/netty/resolver/package-info.java

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\* /opt/cola/permits/1117259316\_1608163224.83/0/netty-resolver-4-1-55-final-sources-jar/io/netty/resolver/SimpleNameResolver.java

\* /opt/cola/permits/1117259316\_1608163224.83/0/netty-resolver-4-1-55-final-sources-jar/io/netty/resolver/NameResolver.java

\* /opt/cola/permits/1117259316\_1608163224.83/0/netty-resolver-4-1-55-final-sources-jar/io/netty/resolver/AddressResolverGroup.java

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\* /opt/cola/permits/1117259316\_1608163224.83/0/netty-resolver-4-1-55-final-sources-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java  
\*  
/opt/cola/permits/1117259316\_1608163224.83/0/netty-resolver-4-1-55-final-sources-jar/io/netty/resolver/InetNameResolver.java  
\* /opt/cola/permits/1117259316\_1608163224.83/0/netty-resolver-4-1-55-final-sources-jar/io/netty/resolver/AddressResolver.java  
\* /opt/cola/permits/1117259316\_1608163224.83/0/netty-resolver-4-1-55-final-sources-jar/io/netty/resolver/DefaultNameResolver.java  
\* /opt/cola/permits/1117259316\_1608163224.83/0/netty-resolver-4-1-55-final-sources-jar/io/netty/resolver/DefaultAddressResolverGroup.java  
\* /opt/cola/permits/1117259316\_1608163224.83/0/netty-resolver-4-1-55-final-sources-jar/io/netty/resolver/InetSocketAddressResolver.java  
\* /opt/cola/permits/1117259316\_1608163224.83/0/netty-resolver-4-1-55-final-sources-jar/io/netty/resolver/HostsFileEntriesResolver.java  
\* /opt/cola/permits/1117259316\_1608163224.83/0/netty-resolver-4-1-55-final-sources-jar/io/netty/resolver/HostsFileParser.java  
\* /opt/cola/permits/1117259316\_1608163224.83/0/netty-resolver-4-1-55-final-sources-jar/io/netty/resolver/CompositeNameResolver.java

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\* /opt/cola/permits/1117259316\_1608163224.83/0/netty-resolver-4-1-55-final-sources-jar/META-INF/maven/io.netty/netty-resolver/pom.xml

# 1.508 netty 4.1.55.Final

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Found in path(s):

\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/META-INF/maven/io.netty/netty-codec/pom.xml

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/\*\*

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

\*

<p>

\* {@link LengthFieldBasedFrameDecoder} has many configuration parameters so  
\* that it can decode any message with a length field, which is often seen in  
\* proprietary client-server protocols. Here are some example that will give  
\* you the basic idea on which option does what.

\*

\* <h3>2 bytes length field at offset 0, do not strip header</h3>

\*

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

```
* <pre>
* <b>lengthFieldOffset</b> = <b>0</b>
* <b>lengthFieldLength</b> = <b>2</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0 (= do not strip header)
```

```
*
* BEFORE DECODE (14 bytes)    AFTER DECODE (14 bytes)
* +-----+-----+ +-----+-----+
* | Length | Actual Content
* |---->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" | | 0x000C | "HELLO, WORLD" |
* +-----+-----+ +-----+-----+
* </pre>
```

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

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

```
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
```

```
*
* BEFORE DECODE (14 bytes)    AFTER DECODE (12 bytes)
* +-----+-----+ +-----+-----+
* | Length | Actual Content |---->| Actual Content |
* | 0x000C | "HELLO, WORLD" | | "HELLO, WORLD" |
* +-----+-----+ +-----+-----+
* </pre>
```

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

\* In most cases, the length field represents the length of the message body  
 \* only, as shown in the previous examples. However, in some protocols, the  
 \* length field represents the length of the whole message, including the  
 \* message header. In such a case, we specify a non-zero  
 \* `<tt>lengthAdjustment</tt>`. Because the length value in this example message  
 \* is always greater than the body length by `<tt>2</tt>`, we specify `<tt>-2</tt>`

\* as `<tt>lengthAdjustment</tt>` for compensation.

```
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
*
```

```
* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)
* +-----+-----+-----+-----+
* | Length | Actual Content |---->| Length | Actual
  Content |
* | 0x000E | "HELLO, WORLD" |   | 0x000E | "HELLO, WORLD" |
* +-----+-----+-----+-----+
```

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

\* The following message is a simple variation of the first example. An extra header value is prepended to the message. `<tt>lengthAdjustment</tt>` is zero again because the decoder always takes the length of the prepended data into account during frame length calculation.

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

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

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

\* This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra header into the frame length calculation.

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

```
* BEFORE DECODE (17 bytes)      AFTER DECODE (17 bytes)
```





```

* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |    | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+-----+ +-----+-----+
* </pre>
* @see LengthFieldPrepender
*/

```

Found in path(s):

```

* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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*/
/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* Base64 notation.
*
* The encoding and decoding algorithm in this class has been derived from
* http://iharder.sourceforge.net/current/java/base64/ Robert Harder's Public Domain
* Base64 Encoder/Decoder.
*/

```

Found in path(s):

```

* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/base64/Base64.java

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\*/  
/\*\*  
\* Enumeration of supported Base64 dialects.  
\* <p>  
\* The internal lookup tables in this class has been derived from  
\* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert  
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\*/

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\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-  
jar/io/netty/handler/codecs/base64/Base64Dialect.java

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\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/Headers.java

\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/EmptyHeaders.java

\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/DefaultHeaders.java

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\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/FastLz.java

\*

/\*opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java

\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java

\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java

\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/Crc32.java

\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java

\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java

\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java

\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java

\*

/opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/MessageAggregationException.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/json/JsonObjectDecoder.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/json/package-info.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/Bzip2Rand.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java  
\*  
/opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/DecoderResultProvider.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/Bzip2Decoder.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/LzfEncoder.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java  
\*  
/opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/Lz4Constants.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/LzfDecoder.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java  
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\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-  
jar/io/netty/handler/codec/HeadersUtils.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java  
\*  
/opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-  
jar/io/netty/handler/codec/ProtocolDetectionResult.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-  
jar/io/netty/handler/codec/ProtocolDetectionState.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-  
jar/io/netty/handler/codec/UnsupportedValueConverter.java

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jar/io/netty/handler/codec/xml/XmlFrameDecoder.java

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jar/io/netty/handler/codec/compression/Crc32c.java

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jar/io/netty/handler/codec/string/LineSeparator.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-  
jar/io/netty/handler/codec/DatagramPacketEncoder.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-  
jar/io/netty/handler/codec/DateFormatter.java

\*  
/opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-  
jar/io/netty/handler/codec/compression/ByteBufChecksum.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-  
jar/io/netty/handler/codec/compression/CompressionUtil.java  
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jar/io/netty/handler/codec/string/LineEncoder.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-  
jar/io/netty/handler/codec/CodecOutputList.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-  
jar/io/netty/handler/codec/DatagramPacketDecoder.java

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jar/io/netty/handler/codec/compression/ZlibUtil.java  
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jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java

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jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java



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 \* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java  
 \* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java  
 \* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/serialization/CachingClassResolver.java  
 \* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java  
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 \*  
 /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java  
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 \* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java  
 \* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/Delimiters.java  
 \* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java  
 \* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java  
 \* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java  
 \*  
 /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoder.java  
 \* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/serialization/ClassResolvers.java  
 \* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java  
 \* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/MessageToMessageEncoder.java  
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 \* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/string/StringDecoder.java  
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 \* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java  
 \*  
 /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java  
 \* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-

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jar/io/netty/handler/codec/LengthFieldPrepender.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/compression/JZlibEncoder.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/xml/package-info.java
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jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/compression/package-info.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
*
/opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/compression/ZlibDecoder.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/serialization/package-info.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/DecoderResult.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/EncoderException.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/compression/ZlibWrapper.java
*
/opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/LineBasedFrameDecoder.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/serialization/ReferenceMap.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/string/package-info.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/bytes/package-info.java
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/opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/protobuf/package-info.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/compression/DecompressionException.java

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\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/MessageAggregator.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java  
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\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/CorruptedFrameException.java  
\*  
/opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/ZlibEncoder.java  
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\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java  
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/opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/Snappy.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/string/StringEncoder.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/TooLongFrameException.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java  
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\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-jar/io/netty/handler/codec/MessageToMessageDecoder.java  
\* /opt/cola/permits/1117259284\_1608163235.26/0/netty-codec-4-1-55-final-sources-

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jar/io/netty/handler/codec/DecoderException.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/FixedLengthFrameDecoder.java
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jar/io/netty/handler/codec/ReplayingDecoder.java
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jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
*
/opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/serialization/ObjectDecoder.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/MessageToByteEncoder.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
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* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/cola/permits/1117259284_1608163235.26/0/netty-codec-4-1-55-final-sources-
jar/io/netty/handler/codec/DefaultHeadersImpl.java
```

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jar/io/netty/buffer/ByteBufAllocatorMetricProvider.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-
jar/io/netty/buffer/PooledByteBufAllocatorMetric.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-
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```

Found in path(s):

```
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/META-
INF/maven/io.netty/netty-buffer/pom.xml
```

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```

Found in path(s):

```
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-
jar/io/netty/buffer/search/SearchProcessorFactory.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-
jar/io/netty/buffer/search/BitapSearchProcessorFactory.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-
jar/io/netty/buffer/search/AbstractMultiSearchProcessorFactory.java
*
 /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-
jar/io/netty/buffer/search/SearchProcessor.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-
jar/io/netty/buffer/search/AhoCorasicSearchProcessorFactory.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-
jar/io/netty/buffer/search/MultiSearchProcessorFactory.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-
jar/io/netty/buffer/search/MultiSearchProcessor.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-
jar/io/netty/buffer/search/KmpSearchProcessorFactory.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-
jar/io/netty/buffer/search/AbstractSearchProcessorFactory.java
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Found in path(s):

```
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/META-INF/native-
image/io.netty/buffer/native-image.properties
```

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```
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-
jar/io/netty/buffer/LongLongHashMap.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-
jar/io/netty/buffer/search/package-info.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-
jar/io/netty/buffer/SizeClassesMetric.java
*
/opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-
jar/io/netty/buffer/LongPriorityQueue.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-
jar/io/netty/buffer/SizeClasses.java
```

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```
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-
```

jar/io/netty/buffer/Unpooled.java  
\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/UnpooledUnsafeDirectByteBuf.java  
\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/ReadOnlyByteBuf.java  
\*  
/opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/UnpooledHeapByteBuf.java  
\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/ByteBuf.java  
\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/PoolSubpage.java  
\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/PoolChunk.java  
\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/UnpooledDirectByteBuf.java  
\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/CompositeByteBuf.java  
\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/AbstractByteBuf.java  
\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/ByteBufUtil.java  
\*  
/opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/PooledByteBuf.java  
\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/SlicedByteBuf.java  
\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/UnpooledByteBufAllocator.java  
\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/PoolChunkList.java  
\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/PooledDirectByteBuf.java  
\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/PoolThreadCache.java  
\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/AbstractByteBufAllocator.java  
\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/ByteBufOutputStream.java  
\*  
/opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/ByteBufAllocator.java  
\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/package-info.java  
\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/SwappedByteBuf.java  
\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/ByteBufInputStream.java  
\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-



jar/io/netty/buffer/DuplicatedByteBuf.java

\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-

jar/io/netty/buffer/PoolArena.java

\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-

jar/io/netty/buffer/PooledByteBufAllocator.java

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\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-

jar/io/netty/buffer/UnsafeHeapSwappedByteBuf.java

\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-

jar/io/netty/buffer/UnsafeDirectSwappedByteBuf.java

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\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-

```
jar/io/netty/buffer/ReadOnlyUnsafeDirectByteBuf.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-
jar/io/netty/buffer/PooledUnsafeDirectByteBuf.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-
jar/io/netty/buffer/ByteBufProcessor.java
*
/opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-
jar/io/netty/buffer/ReadOnlyByteBufferBuf.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-
jar/io/netty/buffer/AbstractReferenceCountedByteBuf.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-
jar/io/netty/buffer/SimpleLeakAwareByteBuf.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-
jar/io/netty/buffer/EmptyByteBuf.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-
jar/io/netty/buffer/WrappedByteBuf.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-
jar/io/netty/buffer/FixedCompositeByteBuf.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-
jar/io/netty/buffer/AdvancedLeakAwareByteBuf.java
*
/opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-
jar/io/netty/buffer/DefaultByteBufHolder.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-
jar/io/netty/buffer/UnreleasableByteBuf.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-
jar/io/netty/buffer/AbstractDerivedByteBuf.java
* /opt/cola/permits/1117259315_1608163288.2/0/netty-buffer-4-1-55-final-sources-
jar/io/netty/buffer/ByteBufHolder.java
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\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/PooledUnsafeHeapByteBuf.java  
\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/UnpooledSlicedByteBuf.java  
\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/PoolChunkMetric.java  
\*  
/opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/PoolArenaMetric.java  
\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/AbstractUnsafeSwappedByteBuf.java  
\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/PoolChunkListMetric.java  
\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/PoolSubpageMetric.java  
\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/UnpooledUnsafeHeapByteBuf.java  
\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/HeapByteBufUtil.java  
\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/UnpooledDuplicatedByteBuf.java  
\* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/UnsafeByteBufUtil.java

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- \* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/WrappedUnpooledUnsafeDirectByteBuf.java
- \* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/PooledDuplicatedByteBuf.java
- \*
- /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/SimpleLeakAwareCompositeByteBuf.java
- \* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/UnpooledUnsafeNoCleanerDirectByteBuf.java
- \* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/WrappedCompositeByteBuf.java
- \* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/AbstractPooledDerivedByteBuf.java
- \* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/AbstractUnpooledSlicedByteBuf.java
- \* /opt/cola/permits/1117259315\_1608163288.2/0/netty-buffer-4-1-55-final-sources-jar/io/netty/buffer/AdvancedLeakAwareCompositeByteBuf.java

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```
// License information for the exposed API.  
//  
// For more information: http://goo.gl/8us55a#licenseObject  
type License struct {  
    Name string `json:"name,omitempty"`  
    URL string `json:"url,omitempty"`  
}
```

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In order of appearance:

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## **1.536 strcase 0.0.0-2019112232945-16388991a334**

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## 1.538 msx-platform-go-client 1.0.4

### 1.538.1 Available under license :

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openapi: 3.0.0

info:

contact:

email: somecontact@cisco.com

name: Cisco Systems Inc.

url: http://www.cisco.com

description: MSX Platform SDK

license:

name: Apache License Version 2.0

url: http://www.apache.org/licenses/LICENSE-2.0.html

termsOfService: http://www.cisco.com

title: KAKAPO - MSX SDK

version: 3.9.0

servers:

- url: //localhost:8765

security:

- bearerAuth: []

paths:

/consume/api/v8/products:

get:

operationId: getProductsPage

parameters:

- explode: true

in: query

name: page

required: true

schema:

example: 0

format: int32

minimum: 0  
type: integer  
style: form  
- explode: true  
in: query  
name: pageSize  
required: true  
schema:  
example: 10  
format: int32  
maximum: 1000  
minimum: 1  
type: integer

style: form

responses:

"200":

content:

application/json:

example:

page: 0

pageSize: 10

hasNext: false

hasPrevious: false

contents:

- id: ea557db8-391c-4c67-a504-c546e367868f

name: vbranch

label: cisco.catalog.service.vbranch.name

version: "1"

description: cisco.catalog.service.vbranch.description

image: /services/vbranch/images/icons/image\_vbranch\_service.svg

orderLimit: 1

multipleInstanceAllowed: false

price: 500

options: []

properties: []

configuration:

device: "false"

parts: "2"

showOffers: "true"

validation: none

isResource: false

hasChildren: false

serviceExtensions: []

serviceConfigQueryRootXPath: []

- id: 1a302d7c-5311-4fdf-aa99-ca99dec586b9

name: vbranch

label: cisco.catalog.service.sdwan.name  
version: "1"  
description: cisco.catalog.service.sdwan.description  
image: /services/sdwan/images/icons/image\_sdwan\_service.svg  
orderLimit: 1  
multipleInstanceAllowed: false  
price: 500  
options: []  
properties: []  
configuration:  
  device: "false"  
  parts: "2"  
  showOffers: "true"  
  validation: none  
isResource: false  
hasChildren: false  
serviceExtensions: []  
serviceConfigQueryRootXPath: []  
schema:  
  \$ref:  
  '#/components/schemas/ProductsPage'  
  description: OK  
  "400":  
  content:  
  application/json:  
  schema:  
  \$ref: '#/components/schemas/Error'  
  description: Bad Request  
  "401":  
  content:  
  application/json:  
  schema:  
  \$ref: '#/components/schemas/Error'  
  description: Unauthenticated  
  "403":  
  content:  
  application/json:  
  schema:  
  \$ref: '#/components/schemas/Error'  
  description: Unauthorized  
  "500":  
  content:  
  application/json:  
  schema:  
  \$ref: '#/components/schemas/Error'  
  description: Internal Server Error  
summary: Returns a page of products.  
tags:

- Products

post:

operationId: createProduct

requestBody:

content:

application/json:

example:

name: vbranch

label: cisco.catalog.service.vbranch.name

version: "1"

description: cisco.catalog.service.vbranch.description

image: /services/vbranch/images/icons/image\_vbranch\_service.svg

orderLimit: 1

multipleInstanceAllowed: false

price: 500

options: []

properties: []

configuration:

device: "false"

parts: "2"

showOffers: "true"

validation: none

isResource: false

hasChildren: false

serviceExtensions: []

serviceConfigQueryRootXPath: []

schema:

\$ref: '#/components/schemas/ProductCreate'

required: true

responses:

"201":

content:

application/json:

example:

id: ea557db8-391c-4c67-a504-c546e367868f

name: vbranch

label: cisco.catalog.service.vbranch.name

version: "1"

description: cisco.catalog.service.vbranch.description

image: /services/vbranch/images/icons/image\_vbranch\_service.svg

orderLimit: 1

multipleInstanceAllowed: false

price: 500

options: []

properties: []

configuration:

device: "false"



```

    parts: "2"
    showOffers: "true"
    validation: none
    isResource: false
    hasChildren: false
    serviceExtensions: []
    serviceConfigQueryRootXPath: []
    schema:
      $ref: '#/components/schemas/Product'
description: Created
"400":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Bad Request
"401":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Creates a product.
tags:
- Products
/consume/api/v8/products/count:
get:
  operationId: getProductsCount
responses:
  "200":
    content:
      application/json:
        example: 11
        schema:
          format: int64
          type: integer

```

description: OK  
"400":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'

description: Bad Request  
"401":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'

description: Unauthenticated  
"403":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'

description: Unauthorized  
"500":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'

description: Internal Server Error  
summary: Returns count of products.

tags:  
- Products

/consume/api/v8/products/{id}:

delete:  
  operationId: deleteProduct

parameters:  
- explode: false

  in: path  
  name: id  
  required: true  
  schema:  
    format: uuid  
    type: string  
  style: simple

responses:

"204":  
  description: No Content

"400":  
  content:

application/json:  
  schema:  
    \$ref: '#/components/schemas/Error'  
description: Bad Request  
"401":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Unauthenticated  
"403":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Unauthorized  
"404":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Not Found  
"500":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Internal Server Error  
summary: Deletes a product.  
tags:  
- Products  
get:

  operationId: getProduct  
  parameters:  
  - explode: false  
  in: path

name: id  
  required: true  
  schema:  
    format: uuid  
    type: string  
    style: simple

responses:  
"200":  
content:  
  application/json:  
    example:

id: ea557db8-391c-4c67-a504-c546e367868f  
name: vbranch  
label: cisco.catalog.service.vbranch.name  
version: "1"  
description: cisco.catalog.service.vbranch.description  
image: /services/vbranch/images/icons/image\_vbranch\_service.svg  
orderLimit: 1  
multipleInstanceAllowed: false  
price: 500  
options: []  
properties: []  
configuration:  
  device: "false"  
  parts: "2"  
  showOffers: "true"  
  validation: none  
isResource: false  
hasChildren: false  
serviceExtensions: []  
serviceConfigQueryRootXPath:

[]

  schema:  
    \$ref: '#/components/schemas/Product'  
description: OK  
"400":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
    description: Bad Request  
"401":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
    description: Unauthenticated  
"403":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
    description: Unauthorized  
"404":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
    description: Not Found

```

"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
      summary: Returns a product.
  tags:
  - Products
  put:
    operationId: updateProduct
    parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      format: uuid
      type: string
      style: simple
    requestBody:
      content:
        application/json:
          example:
            name: vbranch
            label: cisco.catalog.service.vbranch.name
            version: "1"
            description: cisco.catalog.service.vbranch.description
            image: /services/vbranch/images/icons/image_vbranch_service.svg
            orderLimit: 1
            multipleInstanceAllowed: false
            price: 500
            options: []
            properties: []
            configuration:
              device: "false"
              parts: "2"
              showOffers: "true"
              validation: none
            isResource: false
            hasChildren:
false
          serviceExtensions: []
          serviceConfigQueryRootXPath: []
          schema:
            $ref: '#/components/schemas/ProductUpdate'
          required: true
    responses:

```

"200":

content:

application/json:

example:

id: ea557db8-391c-4c67-a504-c546e367868f

name: vbranch

label: cisco.catalog.service.vbranch.name

version: "1"

description: cisco.catalog.service.vbranch.description

image: /services/vbranch/images/icons/image\_vbranch\_service.svg

orderLimit: 1

multipleInstanceAllowed: false

price: 500

options: []

properties: []

configuration:

device: "false"

parts: "2"

showOffers: "true"

validation: none

isResource: false

hasChildren: false

serviceExtensions: []

serviceConfigQueryRootXPath: []

schema:

\$ref: '#/components/schemas/Product'

description: OK

"400":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Bad Request

"401":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Unauthenticated

"403":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Unauthorized

"404":

content:

application/json:  
  schema:  
    \$ref: '#/components/schemas/Error'  
description: Not Found  
"500":  
  content:  
    application/json:  
      schema:

\$ref: '#/components/schemas/Error'  
  description: Internal Server Error

summary: Update a product.

tags:

- Products

/consume/api/v8/offers:

get:

  operationId: getOffersPage

  parameters:

- explode: true

  in: query

  name: productId

  required: false

  schema:

    format: uuid

    type: string

  style: form

- explode: true

  in: query

  name: page

  required: true

  schema:

    example: 0

    format: int32

    minimum: 0

    type: integer

  style: form

- explode: true

  in: query

  name: pageSize

  required: true

  schema:

    example: 10

    format: int32

    maximum: 1000

    minimum: 1

    type: integer

  style: form

responses:

"200":

content:

application/json:

example:

page: 0

pageSize: 10

hasNext: false

hasPrevious: false

contents:

- id: e3733184-09fa-4dc1-90e2-9ca233d5999a

name: branches

label: cisco.consume.service.vbranch.offer.name

description: cisco.consume.service.vbranch.offer.description

productId: 46bad1ba-2704-419d-b9b4-f1cdf79da4f

version: 1

displayOrder: 1

image: /services/vbranch/images/icons/image\_vbranch\_service.svg

supportedProperties:

- Basic-small

supportedOptions:

- name: Template\_Development\_Environment

value: "Yes"

- name: Zero\_Touch\_Deployment

value: "Yes"

- name: Custom\_Service\_Chaining

value: "Yes"

- name: Third\_Party

value: "Yes"

- id: 90521e4f-8074-458c-b278-2144c0f53b5a

name: cisco.consume.service.manageddevice.label

label: cisco.consume.manageddevice.offer.manageddevice.full

description: cisco.consume.service.manageddevice.description.label

productId: c9651078-b8d9-4018-bf25-8be6b6c06d85

version: 1

displayOrder: 1

image: services/manageddevice/images/managed-cpe.svg

supportedProperties:

- Basic-small

supportedOptions:

- name: Centralized\_device\_management

value: "Yes"

- name: Zero\_Touch\_Deployment

value: "Yes"

- name: Configuration\_templates

value: "Yes"

- name: Monitoring\_and\_metrics

value: "Yes"

schema:



\$ref: '#/components/schemas/OffersPage'

description:

OK

"400":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Bad Request

"401":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Unauthenticated

"403":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Unauthorized

"500":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Internal Server Error

summary: Returns a page of product offers.

tags:

- Offers

post:

operationId: createOffer

requestBody:

content:

application/json:

example:

name: cisco.consume.service.manageddevice.label

label: cisco.consume.manageddevice.offer.manageddevice.full

description: cisco.consume.service.manageddevice.description.label

productId: 83432bdd-1293-4bf3-ab53-77a199e2beff

version: 1

displayOrder: 1

image: services/manageddevice/images/managed-cpe.svg

price: test

type: test

supportedProperties:

- Basic-small

supportedOptions:

```

- name: Centralized_device_management
  value: "Yes"
- name: Zero_Touch_Deployment
  value: "Yes"
- name: Configuration_templates
  value: "Yes"
- name: Monitoring_and_metrics
  value: "Yes"
schema:
  $ref: '#/components/schemas/OfferCreate'
required: true
responses:
  "201":
    content:
      application/json:
        example:
          id: e3733184-09fa-4dc1-90e2-9ca233d5999a
          name: cisco.consume.service.manageddevice.label
          label: cisco.consume.manageddevice.offer.manageddevice.full
          description: cisco.consume.service.manageddevice.description.label
          productId: 46bad1ba-2704-419d-b9b4-f1cdff79da4f
          version: 1
          displayOrder: 1
          image: services/manageddevice/images/managed-cpe.svg
          price: test
          type: test
          supportedProperties:
            - Basic-small
          supportedOptions:
            - name: Centralized_device_management
              value: "Yes"
            - name: Zero_Touch_Deployment
              value: "Yes"
            - name: Configuration_templates
              value: "Yes"
            - name: Monitoring_and_metrics
              value: "Yes"
          schema:
            $ref: '#/components/schemas/Offer'
        description:
          Created
    "400":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
          description: Bad Request
    "401":

```

```

content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Creates a product offer.
tags:
- Offers
/consume/api/v8/offers/count:
get:
  operationId: getOffersCount
  parameters:
  - explode: true
    in: query
    name: productId
    required: false
    schema:
      format:
uuid
  type: string
  style: form
responses:
"200":
  content:
    application/json:
      example: 7
      schema:
        format: int64
        type: integer
    description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
    description: Bad Request

```

"401":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Unauthenticated

"403":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Unauthorized

"500":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Internal Server Error  
summary: Returns count of product

offers.  
tags:  
- Offers

/consume/api/v8/offers/{id}:  
delete:  
  operationId: deleteOffer  
  parameters:  
- explode: false  
  in: path  
  name: id  
  required: true  
  schema:  
    format: uuid  
    type: string  
    style: simple

responses:  
"204":  
  description: No Content

"400":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Bad Request

"401":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'

```
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Internal Server Error
summary: Deletes a product offer
tags:
- Offers
get:
  operationId: getOffer
  parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      format: uuid
      type: string
      style: simple
  responses:
    "200":
      content:
        application/json:
          example:
            id: e3733184-09fa-4dc1-90e2-9ca233d5999a
            name: branches
            label: cisco.consume.service.vbranch.offer.name
            description: cisco.consume.service.vbranch.offer.description
            productId: 46bad1ba-2704-419d-b9b4-f1cdf79da4f
            version: 1
            displayOrder: 1
            image:
              /services/vbranch/images/icons/image_vbranch_service.svg
            supportedProperties:
```

- Basic-small  
supportedOptions:  
- name: Template\_Development\_Environment  
value: "Yes"  
- name: Zero\_Touch\_Deployment  
value: "Yes"  
- name: Custom\_Service\_Chaining  
value: "Yes"  
- name: Third\_Party  
value: "Yes"  
schema:  
\$ref: '#/components/schemas/Offer'  
description: OK  
"400":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Bad Request  
"401":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Unauthenticated  
"403":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Unauthorized  
"404":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Not Found  
"500":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Internal Server Error  
summary: Returns a product offer.  
tags:  
- Offers  
put:  
operationId: updateOffer

parameters:  
- explode: false  
in: path  
name: id  
required: true  
schema:  
  format: uuid  
  type: string  
  style: simple  
requestBody:  
  content:  
    application/json:  
      example:  
        name: branches  
        label: cisco.consume.service.vbranch.offer.name  
        description: cisco.consume.service.vbranch.offer.description  
        productId:  
46bad1ba-2704-419d-b9b4-f1cdff79da4f  
        version: 1  
        displayOrder: 1  
        image: /services/vbranch/images/icons/image\_vbranch\_service.svg  
        supportedProperties:  
        - Basic-small  
        supportedOptions:  
        - name: Template\_Development\_Environment  
          value: "Yes"  
        - name: Zero\_Touch\_Deployment  
          value: "Yes"  
        - name: Custom\_Service\_Chaining  
          value: "Yes"  
        - name: Third\_Party  
          value: "Yes"  
        schema:  
        \$ref: '#/components/schemas/OfferUpdate'  
        required: true  
    responses:  
      "200":  
        content:  
          application/json:  
            example:  
              id: e3733184-09fa-4dc1-90e2-9ca233d5999a  
              name: branches  
              label: cisco.consume.service.vbranch.offer.name  
              description: cisco.consume.service.vbranch.offer.description  
  
              productId: 46bad1ba-2704-419d-b9b4-f1cdff79da4f  
              version: 1  
              displayOrder: 1

image: /services/vbranch/images/icons/image\_vbranch\_service.svg

supportedProperties:

- Basic-small

supportedOptions:

- name: Template\_Development\_Environment  
value: "Yes"
- name: Zero\_Touch\_Deployment  
value: "Yes"
- name: Custom\_Service\_Chaining  
value: "Yes"
- name: Third\_Party  
value: "Yes"

schema:

\$ref: '#/components/schemas/Offer'

description: OK

"400":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Bad Request

"401":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Unauthenticated

"403":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Unauthorized

"404":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Not Found

"500":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Internal Server Error

summary: Update a product offer.

tags:

- Offers



/manage/api/v8/devices:

get:

operationId: getDevicesPage

parameters:

- explode: true

in: query

name: deviceIds

required: false

schema:

\$ref: '#/components/schemas/StringArray'

style: form

- explode: true

in: query

name: serviceIds

required: false

schema:

\$ref: '#/components/schemas/StringArray'

style: form

- explode: true

in: query

name: types

required: false

schema:

\$ref: '#/components/schemas/StringArray'

style: form

- explode: true

in: query

name: serialKeys

required: false

schema:

\$ref: '#/components/schemas/StringArray'

style: form

- explode: true

in: query

name: serviceTypes

required: false

schema:

\$ref: '#/components/schemas/StringArray'

style: form

- explode: true

in: query

name: models

required: false

schema:

\$ref: '#/components/schemas/StringArray'

style: form

- explode: true

in: query

name: subtypes  
required: false  
schema:  
  \$ref: '#/components/schemas/StringArray'  
style: form  
- explode: true  
in: query  
  name: names  
required: false  
schema:  
  \$ref: '#/components/schemas/StringArray'  
style: form  
- explode: true  
in: query  
name: versions  
required: false  
schema:  
  \$ref: '#/components/schemas/StringArray'  
style: form  
- explode: true  
in: query  
name: tenantIds  
required: false  
schema:  
  \$ref: '#/components/schemas/UuidArray'  
style: form  
- explode: true  
in: query  
name: severities  
required: false  
schema:  
  \$ref: '#/components/schemas/StringArray'  
style: form  
- explode: true  
in: query  
name: page  
required: true  
schema:  
  example: 0  
  format: int32  
  minimum: 0  
  type: integer  
  style: form  
- explode: true  
in: query  
name: pageSize  
required: true  
schema:

example: 10  
format:  
int32  
maximum: 1000  
minimum: 1  
type: integer  
style: form  
- explode: true  
in: query  
name: sortBy  
required: false  
schema:  
example: name  
type: string  
style: form  
- explode: true  
in: query  
name: sortOrder  
required: false  
schema:  
enum:  
- asc  
- desc  
type: string  
style: form  
responses:  
"200":  
content:  
application/json:  
example:  
page: 0  
pageSize: 3  
hasNext: true  
hasPrevious: false  
contents:  
- id: 57acc99e-5301-44b1-87d8-9383feb705c3  
name: device-name-5fb3c0fb-0bdf-485a-ad63-15106c6e3bed  
model: CISCO CSR 1000v  
type: CISCO CSR 1000v  
serialKey: CLctKw8azMR  
version: "123"  
  
serviceType: manageddevice  
managed: true  
onboardType: direct  
onboardInformation:  
serviceType: manageddevice  
variables:

```
'{"ONBOARDING_INTERFACE":"GigabitEthernet1","CUSTOMER_PASSWORD_MD5":"$8$/IH9SrDINF1YkYD7/x9FSYHnoxeAY4AEencCGbe1ZWGOGx1nkn6+EdsPYacwXUdh","CPE_SNMP_V3_AUTH_PASS":"$8$BnSiQUd4kW5VqGe/6jLziV59kU3n4DKKumlBgVGMCRIV6dcRzybuNJ16cGZE+G+A","onboarding-template-id":"cisco-ios-secure-onboarding","CPE_SNMP_V3_PRIV_PASS":"$8$Tx9ngrtcjB+19ihlUJTAYFE10GhI+8IB43he/+SGbnr45Bi0ETyP9Wq90km3gbeh","ENABLE_SECRET":"$8$maC3mSZ0hY4c25G7M6bWBsx9+b5ys1Ehin/SJFIuwNjh50BQpR0sSpGOXo0BvG0d","CUSTOMER_USERNAME":"vmsmd33"}
```

address: 10.254.0.3

always-allocate-ip: "true"

ned-id: cisco-ios

onboarding-template-done: "true"

password: \$8\$/IH9SrDINF1YkYD7/x9FSYHnoxeAY4AEencCGbe1ZWGOGx1nkn6+EdsPYacwXUdh

port: "22"

secondary-password:

\$8\$maC3mSZ0hY4c25G7M6bWBsx9+b5ys1Ehin/SJFIuwNjh50BQpR0sSpGOXo0BvG0d

device-type: cli

original-address: 3.134.83.79

username: vmsmd33

status:

value: FAIR

severity: "5"

lastUpdated: 2020-08-06T17:40:50Z

lastUpdatedMessage: Updated by system

statusDetails:

healthStatus:

value: UNKNOWN

severity: "3"

lastUpdated: 2020-08-06T17:40:50Z

lastUpdatedMessage: Updated by 154942cd-d9b2-424f-8d48-fec2486a89fe

pnpsStatus:

value: UNKNOWN

severity: "3"

lastUpdated: 2020-08-06T17:40:50Z

lastUpdatedMessage: Updated by 154942cd-d9b2-424f-8d48-fec2486a89fe

lifeCycleStatus:

value: UNREGISTERED

severity: "5"

lastUpdated: 2020-08-06T17:40:50Z

lastUpdatedMessage: Updated by 154942cd-d9b2-424f-8d48-fec2486a89fe

syncStatus:

value: UNKNOWN

severity: "3"

lastUpdated: 2020-08-06T17:40:50Z

lastUpdatedMessage: Updated by 154942cd-d9b2-424f-8d48-fec2486a89fe

tunnelStatus:

value: UNKNOWN

severity: "3"

lastUpdated: 2020-08-06T17:40:50Z

lastUpdatedMessage: Updated by 154942cd-d9b2-424f-8d48-fec2486a89fe  
tenantId: 4ea8924b-fb40-43ae-ad10-de99139e7357  
providerId: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266  
userId: f8eb77d2-de36-43b7-a021-adea3901e23a  
createdOn: 2020-08-06T17:40:50Z  
modifiedOn: 2020-08-06T17:40:50Z  
- id: 2d3f45a6-4862-4ecf-b228-4736f0a678e5  
name: device-name-27a878a4-721e-4758-82b3-c05de0c7de0b  
model: CISCO CSR 1000v  
type: CISCO CSR 1000v  
serialKey: 36unrHXMxmr  
version: "123"  
serviceType: manageddevice  
managed: true  
onboardType: direct  
onboardInformation:  
  serviceType: manageddevice  
  variables:  
    '{"ONBOARDING\_INTERFACE": "GigabitEthernet1", "CUSTOMER\_PASSWORD\_MD5": "\$8\$/IH9SrDINF1YkYD7/x9FSYHnoxeyAY4AEcncCGbe1ZWGOGx1nkn6+EdsPYacwXUdh", "CPE\_SNMP\_V3\_AUTH\_PASS": "\$8\$BnSiQUd4kW5VqGe/6jLziV59kU3n4DKKumlBgVGMCRIV6dcRzybuNJ16cGZE+G+A", "onboarding-template-id": "cisco-ios-secure-onboarding", "CPE\_SNMP\_V3\_PRIV\_PASS": "\$8\$Tx9ngrtcjB+I9ihlUJTAYFE10GhI+8IB43he/+SGbnr45Bi0ETyP9Wq90km3gbeh", "ENABLE\_SECRET": "\$8\$maC3mSZ0hY4c25G7M6bWBSx9+b5ys1Ehin/SJFIuwNjh50BQpR0sSpGOXo0BvG0d", "CUSTOMER\_USERNAME": "vmsmd33"}'  
    address: 10.254.0.3  
    always-allocate-ip: "true"  
    ned-id: cisco-ios  
    onboarding-template-done: "true"  
    password: \$8\$/IH9SrDINF1YkYD7/x9FSYHnoxeyAY4AEcncCGbe1ZWGOGx1nkn6+EdsPYacwXUdh  
    port: "22"  
    secondary-password:  
    \$8\$maC3mSZ0hY4c25G7M6bWBSx9+b5ys1Ehin/SJFIuwNjh50BQpR0sSpGOXo0BvG0d  
    device-type: cli  
    original-address: 3.134.83.79  
    username: vmsmd33  
  status:  
    value: FAIR  
    severity: "5"  
    lastUpdated: 2020-08-06T18:17:21Z  
    lastUpdatedMessage: Updated by system  
  statusDetails:  
    healthStatus:  
      value: UNKNOWN  
      severity: "3"  
    lastUpdated:  
    2020-08-06T18:17:21Z  
    lastUpdatedMessage: Updated by superuser

pnpStatus:  
value: UNKNOWN  
severity: "3"  
lastUpdated: 2020-08-06T18:17:21Z  
lastUpdatedMessage: Updated by superuser  
lifeCycleStatus:  
value: UNREGISTERED  
severity: "5"  
lastUpdated: 2020-08-06T18:17:21Z  
lastUpdatedMessage: Updated by superuser  
syncStatus:  
value: UNKNOWN  
severity: "3"  
lastUpdated: 2020-08-06T18:17:21Z  
lastUpdatedMessage: Updated by superuser  
tunnelStatus:  
value: UNKNOWN  
severity: "3"  
lastUpdated: 2020-08-06T18:17:21Z  
lastUpdatedMessage: Updated by superuser

tenantId: a76407a2-d293-4e19-aaea-d5d4da4f4b24  
providerId: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266  
userId: c0c3cff0-d5d5-11ea-b88a-a7053c652ef4  
createdOn: 2020-08-06T18:17:21Z  
modifiedOn: 2020-08-06T18:17:21Z  
- id: 83a38a3e-5b26-4d87-b1c7-6729641a8e51  
name: device-name-145611c2-f09c-4624-9b03-98fdd9c6d830  
model: CISCO CSR 1000v  
type: CISCO CSR 1000v  
serialKey: vvKqftXraGq  
version: "123"  
serviceType: manageddevice  
managed: true  
onboardType: direct  
onboardInformation:  
serviceType: manageddevice  
variables:

```
'{"ONBOARDING_INTERFACE": "GigabitEthernet1", "CUSTOMER_PASSWORD_MD5": "$8$/IH9SrDINF1Yk  
YD7/x9FSYHnoxeyAY4AEcncCGbe1ZWGOGx1nkn6+EdsPYacwXUdh", "CPE_SNMP_V3_AUTH_PASS": "$8$B  
nSiQUd4kW5VqGe/6jLziV59kU3n4DKKumlBgVGMCRIV6dcRzybuNJ16cGZE+G+A", "onboarding-template-  
id": "cisco-ios-secure-  
onboarding", "CPE_SNMP_V3_PRIV_PASS": "$8$Tx9ngrtcjB+I9ihlUJTAYFE10GhI+8IB43he/+SGbnr45Bi0ETyP  
9Wq90km3gbeh", "ENABLE_SECRET": "$8$maC3mSZ0hY4c25G7M6bWBsx9+b5ys1Ehin/SJFIuwNjh50BQpR0s  
SpGOXo0BvG0d", "CUSTOMER_USERNAME": "vmsmd33"}'
```

address: 10.254.0.3  
always-allocate-ip: "true"  
ned-id: cisco-ios

onboarding-template-done: "true"  
password: \$8\$/IH9SrDINF1YkYD7/x9FSYHnoxeyAY4AEencCGbe1ZWGOGx1nkn6+EdsPYacwXUdh  
port: "22"  
secondary-password:  
\$8\$maC3mSZ0hY4c25G7M6bWBSx9+b5ys1Ehin/SJFIuwNjh50BQpR0sSpGOXo0BvG0d  
device-type: cli  
original-address: 3.134.83.79  
username: vmsmd33  
status:  
value: FAIR  
severity: "5"  
lastUpdated: 2020-08-06T18:17:21Z

lastUpdatedMessage: Updated by system

statusDetails:

healthStatus:

value: UNKNOWN

severity: "3"

lastUpdated: 2020-08-06T18:17:21Z

lastUpdatedMessage: Updated by superuser

pnpsStatus:

value: UNKNOWN

severity: "3"

lastUpdated: 2020-08-06T18:17:21Z

lastUpdatedMessage: Updated by superuser

lifeCycleStatus:

value: UNREGISTERED

severity: "5"

lastUpdated: 2020-08-06T18:17:21Z

lastUpdatedMessage: Updated by superuser

syncStatus:

value: UNKNOWN

severity: "3"

lastUpdated: 2020-08-06T18:17:21Z

lastUpdatedMessage: Updated by superuser

tunnelStatus:

value: UNKNOWN

severity: "3"

lastUpdated: 2020-08-06T18:17:21Z

lastUpdatedMessage: Updated by superuser

tenantId: a76407a2-d293-4e19-aaea-d5d4da4f4b24

providerId: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266

userId: c0c3cff0-d5d5-11ea-b88a-a7053c652ef4

createdOn: 2020-08-06T18:17:21Z

modifiedOn: 2020-08-06T18:17:21Z

schema:

\$ref: '#/components/schemas/DevicesPage'

```

description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
summary: Returns a page of devices.
tags:
- Devices
post:
  operationId: createDevice
  requestBody:
    content:
      application/json:
        example:
          tenantId: 4ea8924b-fb40-43ae-ad10-de99139e7357
          name: device-name-5fb3c0fb-0bdf-485a-ad63-15106c6e3bed
          model: CISCO CSR 1000v
          type: CISCO CSR 1000v
          serviceType: manageddevice
          serialKey: CLctKw8azMR
          version: "123"
          managed: true
          onboardType: direct
          onboardInformation:
            serviceType: manageddevice
          variables:
            '{"ONBOARDING_INTERFACE":"GigabitEthernet1","CUSTOMER_PASSWORD_MD5":"$8$/IH9SrDINF1Yk
            YD7/x9FSYHnoxeAY4AEcncCGbe1ZWGOGx1nkn6+EdsPYacwXUdh","CPE_SNMP_V3_AUTH_PASS":"$8$B

```



```
nSiQUd4kW5VqGe/6jLziV59kU3n4DKKumlBgVGMCRIV6dcRzybuNJ16cGZE+G+A","onboarding-template-
id":"cisco-ios-secure-
onboarding","CPE_SNMP_V3_PRIV_PASS":"$8$Tx9ngrtcjB+19ihlUJTAYFE10GhI+8IB43he/+SGbnr45Bi0ETyP
9Wq90km3gbeh","ENABLE_SECRET":"$8$maC3mSZ0hY4c25G7M6bWBSx9+b5ys1Ehin/SJFIuwNjh50BQpR0s
SpGOXo0BvG0d","CUSTOMER_USERNAME":"vmsmd33"}'
  address: 10.254.0.3
  always-allocate-ip: "true"
  ned-id: cisco-ios
  onboarding-template-done: "true"
  password: $8$/IH9SrDINF1YkYD7/x9FSYHnoxAY4AEcncCGbe1ZWGOGx1nkn6+EdsPYacwXUdh
  port: "22"
  secondary-password:
$8$maC3mSZ0hY4c25G7M6bWBSx9+b5ys1Ehin/SJFIuwNjh50BQpR0sSpGOXo0BvG0d
  device-type: cli
  original-address: 3.134.83.79
  username: vmsmd33
```

schema:

\$ref: '#/components/schemas/DeviceCreate'

required: true

responses:

"201":

content:

application/json:

example:

```
id: 57acc99e-5301-44b1-87d8-9383feb705c3
name: device-name-5fb3c0fb-0bdf-485a-ad63-15106c6e3bed
model: CISCO CSR 1000v
type: CISCO CSR 1000v
serialKey: CLctKw8azMR
version: "123"
serviceType: manageddevice
managed: true
onboardType: direct
onboardInformation:
  serviceType: manageddevice
variables:
```

```
'{"ONBOARDING_INTERFACE":"GigabitEthernet1","CUSTOMER_PASSWORD_MD5":"$8$/IH9SrDINF1Yk
YD7/x9FSYHnoxAY4AEcncCGbe1ZWGOGx1nkn6+EdsPYacwXUdh","CPE_SNMP_V3_AUTH_PASS":"$8$B
nSiQUd4kW5VqGe/6jLziV59kU3n4DKKumlBgVGMCRIV6dcRzybuNJ16cGZE+G+A","onboarding-template-
id":"cisco-ios-secure-
onboarding","CPE_SNMP_V3_PRIV_PASS":"$8$Tx9ngrtcjB+19ihlUJTAYFE10GhI+8IB43he/+SGbnr45Bi0ETyP
9Wq90km3gbeh","ENABLE_SECRET":"$8$maC3mSZ0hY4c25G7M6bWBSx9+b5ys1Ehin/SJFIuwNjh50BQpR0s
SpGOXo0BvG0d","CUSTOMER_USERNAME":"vmsmd33"}'
  address: 10.254.0.3
  always-allocate-ip: "true"
  ned-id: cisco-ios
  onboarding-template-done: "true"
```

password: \$8\$/IH9SrDINF1YkYD7/x9FSYHnoxAY4AEcncCGbe1ZWGOGx1nkn6+EdsPYacwXUdh  
port: "22"  
secondary-password:  
\$8\$maC3mSZ0hY4c25G7M6bWBSx9+b5ys1Ehin/SJFIuwNjh50BQpR0sSpGOXo0BvG0d  
device-type: cli  
original-address: 3.134.83.79  
username: vmsmd33  
status:  
value: FAIR  
severity: "5"  
lastUpdated: 2020-08-06T17:40:50Z  
lastUpdatedMessage: Updated by system  
statusDetails:  
healthStatus:  
value: UNKNOWN  
severity: "3"  
lastUpdated: 2020-08-06T17:40:50Z  
lastUpdatedMessage: Updated by 154942cd-d9b2-424f-8d48-fec2486a89fe  
pnpStatus:  
value: UNKNOWN  
severity: "3"  
lastUpdated: 2020-08-06T17:40:50Z  
lastUpdatedMessage: Updated by 154942cd-d9b2-424f-8d48-fec2486a89fe  
lifeCycleStatus:  
value: UNREGISTERED  
severity: "5"  
lastUpdated: 2020-08-06T17:40:50Z  
lastUpdatedMessage: Updated by 154942cd-d9b2-424f-8d48-fec2486a89fe  
syncStatus:  
value: UNKNOWN  
severity: "3"  
lastUpdated: 2020-08-06T17:40:50Z  
lastUpdatedMessage: Updated by 154942cd-d9b2-424f-8d48-fec2486a89fe  
tunnelStatus:  
value: UNKNOWN  
severity:  
"3"  
lastUpdated: 2020-08-06T17:40:50Z  
lastUpdatedMessage: Updated by 154942cd-d9b2-424f-8d48-fec2486a89fe  
tenantId: 4ea8924b-fb40-43ae-ad10-de99139e7357  
providerId: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266  
userId: f8eb77d2-de36-43b7-a021-adea3901e23a  
createdOn: 2020-08-06T17:40:50Z  
modifiedOn: 2020-08-06T17:40:50Z  
schema:  
\$ref: '#/components/schemas/Device'  
description: Created  
"400":

```
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Bad Request
"401":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Unauthenticated
"403":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Unauthorized
"500":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Creates a device.
tags:
- Devices
/manage/api/v8/devices/{id}:
delete:
  operationId: deleteDevice
  parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      type: string
    style: simple
  responses:
    "204":
      description: No Content
    "400":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
      description: Bad Request
    "401":
      content:
```

application/json:  
 schema:  
 \$ref: '#/components/schemas/Error'  
 description: Unauthenticated  
"403":  
 content:

application/json:  
 schema:  
 \$ref: '#/components/schemas/Error'  
 description: Unauthorized  
"404":  
 content:

application/json:  
 schema:  
 \$ref: '#/components/schemas/Error'  
 description: Not Found  
"500":  
 content:

application/json:  
 schema:  
 \$ref: '#/components/schemas/Error'  
 description: Internal Server Error

summary: Deletes a device.

tags:

- Devices

get:

operationId: getDevice

parameters:

- explode: false

in: path

name: id

required: true

schema:

type: string

style: simple

responses:

"200":

content:

application/json:

example:

id: CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3

name: CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3

model: CISCO CSR 1000v

type: CISCO CSR 1000v

tags:

resourceProvider: nso

serialKey: 97K7C3YDPY1

```
version: 16.9.5
serviceInstanceId: d5c9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice
subscriptionId: d5c9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice
serviceType: manageddevice
managed: true
onboardType: pnp
onboardInformation:
  serviceType: manageddevice
  variables: '{"ONBOARDING_INTERFACE':"GigabitEthernet1',"CPE_HOSTNAME':"CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3"}'
  day0-file: CPE_day0_base_config.txt,CPE_day0_tunnel_config.txt
  always-allocate-ip: "true"
  ned-id: cisco-ios
  encryptedVariables:
'{"CPE_SNMP_V3_AUTH_PASS": "$8$ZZFx9L6bG368G/fSsluSkpScU2u86Ecsi5ieia61JKk05ah/L157ggRNcJhIn
vp0","CPE_SNMP_V3_PRIV_PASS": "$8$k5IODLmeuGnar7jFwDmat58fSa5vCR4YcKqrnonPfj2q2+9bdvoxMPR
UGKLVIEk7"}'
  platform-device-subtype: ISR
  password: $8$2NB0CYn0o97Kf3yUcaQavEo+R2URp2N6fpLAv14GbLLJzbGvaQVlssfMtBfw6Pjn
  port: "22"
  platform-device-category: CPE
  secondary-password:
$8$ipNL0lYbqWf/kt7DtnLdv1YsoqSmpndAxEayJT9qA0cQriDBYU9AmWtixjiMIpve
  platform-device-type: CPE
  device-type: cli
  serialKey: 97K7C3YDPY1
  username: vmsmd33
  attributes:
    templateDetails: '[{"templateId": "7919b9e2-cbbb-44f4-9dd1-f29f37d91144", "templateName": "managed-
device-regression-test-template-80f3f736-1692-4128-92f1-
b109c1bf12d3", "deviceParams": [{"name": "DEVICE_NAME", "hintText": "", "label": "DEVICE_NAME", "type": "Stri
ng", "displayType": "Input", "allowedValues": "", "value": "msx-csr-a61989f6-c5c2-4f90-abe3-
fef4c532626f", "toolTipText": ""}, {"name": "BACKUP_DNS_SERVER", "hintText": "", "label": "BACKUP_DNS_SE
RVER", "type": "IPAddress", "displayType": "Input", "allowedValues": "", "value": "8.8.8.8", "toolTipText": ""}], "templa
teHistoryId": null, "appliedBy": "superuser", "appliedOn": null, "editedOn": null, "editedBy": "superuser", "previousTemp
lateHistoryId": null}]'
    address: '{"address1": "88 Queens Quay W, Toronto, ON M5J, Canada", "lat": "43.6411344", "lng": "-
79.37703469999997"}'
    deviceTypeName: CISCO CSR 1000v
    siteName: fb6ee9a2-3bf2-4966-8c53-ebc3c3c5fa2f
    deviceInterfaces:
'[{"name": "GigabitEthernet1", "roles": ["onboard", "wan"], "snmp": "GigabitEthernet1", "nedId": "cisco-ios"}]'
    deviceId: CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3
    deviceName: CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3
    deviceSerial: 97K7C3YDPY1
    tenantDisplayName: 'display-name-d5c9dc30-0232-499b-a8f3-3962c3138159'
    tenantName: d5c9dc30-0232-499b-a8f3-3962c3138159
```

siteDisplayName:  
HvE8gXvV1YUWo27u5ryycmi9MmUdolqCsDGcb9W04VIhaUsgwyVOgyVgwKR7NKuF  
name: CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3  
model: CISCO CSR 1000v  
serialKey: 97K7C3YDPY1  
devicePassword: \$8\$euuSrkJpi/hr71+ujf4Iq608uX0RqIn+82pIXTxDL6d23duMVvkh05DpxYeM/VBT  
status:  
value: GOOD  
severity: "1"  
lastUpdated: 2020-08-04T21:01:46Z  
lastUpdatedMessage: Updated by system  
statusDetails:  
lifeCycleStatus:  
value: Onboarded  
severity: "1"  
lastUpdated: 2020-08-04T21:01:46Z  
lastUpdatedMessage: Updated by system  
tenantId: 985b22a2-00a8-4cea-b9ed-50e76b2b5949  
providerId: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266  
userId: c0c3cff0-d5d5-11ea-b88a-a7053c652ef4

createdOn: 2020-08-04T20:59:34Z  
modifiedOn: 2020-08-04T21:01:46Z

schema:  
\$ref: '#/components/schemas/Device'

description: OK

"400":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Bad Request

"401":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Unauthenticated

"403":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Unauthorized

"404":

content:

application/json:

schema:

```

    $ref: '#/components/schemas/Error'
  description: Not Found
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Internal Server Error
  summary: Returns a device.
  tags:
    - Devices
  /manage/api/v8/devices/{id}/config:
    get:
      operationId: getDeviceConfig
      parameters:
        - explode: false
          in: path
          name: id
          required: true
          schema:
            type: string
            style: simple
      responses:
        "200":
          content:
            application/json:
              example: "Building configuration...\n\nCurrent configuration : 9574\n
                \ bytes\n!\n! Last configuration change at 20:36:57 UTC Tue Aug 4\n
                \ 2020\n!\nversion 16.9\nservice timestamps debug datetime msec\n
                service timestamps log datetime msec\nservice password-encryption\n
                service call-home\nplatform qfp utilization monitor load 80\nno platform\n
                \ punt-keepalive disable-kernel-core\nplatform console virtual\nplatform\n
                \ hardware throughput level\n
                MB 100 \n!\nhostname CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3\n
                \!\nboot-start-marker\nboot-end-marker\n!\n!\nvrf definition MGMT-OVERLAY\n
                \ !\n address-family ipv4\n exit-address-family\n!\nlogging buffered\n
                \ 64000\nno logging console\nenable secret 5 $1$5rN/$zSrp3tqUpuJfrU3vowyxj.\n
                \!naaa new-model\n!\n!\nnaaa authentication login default local\nnaaa\n
                \ authorization exec default none \naaa authorization network default\n
                \ local \n!\n!\n!\n!\n!\nnaaa session-id common\ncall-home\n ! If contact\n
                \ email address in call-home is configured as sch-smart-licensing@cisco.com\n
                \ ! the email address configured in Cisco Smart License Portal will\n
                \ be used as contact email address to send SCH notifications.\n contact-email-addr\n
                \ sch-smart-licensing@cisco.com\n source-interface GigabitEthernet1\n
                \ profile \"CiscoTAC-1\"\n
                active\n destination transport-method\n
                \ http\n no destination transport-method email\nno ip source-route\n
                \!\n!\n!\n!\n!\n!\n!\nno ip bootp server\nip name-server 172.23.169.10\n

```





DD3F9CA1 1B13DB62 \n 8C063C8B 6E6BF458 4A8F46AB\  
 \ 86A11239 8980F4A4 9CA9DD97 4748401D 09DC84E0 \n EFB06214 9A4D273C\  
 \ 45DAEC4F 6894EA0A DCD8E850 BEFE6F75 89D5B4D8 746FD0D6 \n 6E406D45\  
 \ A7236AD2 A33C7B0E 156B2E25 F789DB58 863AA621 A75D1EA0 7BFC1DEA \n\  
 \ E55E8A5B 1B18F0EB DC1DB4DB 87BF172F 2EC6C33F 5CAFEA29 46A10426\  
 \ F4449D21 \n 962B791E 4E2CFC3B B817E280 172FFCFB 0CE80FF7 5DE0768E\  
 \ BCBE8C11 7CF9EE69 \n C94165A9 06DD38FA 8B0229B5 D18DBC71 53D1D7B2\  
 \ DE69A4EA 5A9F4B6C 872AF2DA \n 7C8EE33E 9F08AE42 C4C68EC5 6B2BB9A7\  
 \ 844AE186 56DBB6A8 E14609B4 0105C7E2 \n 99BEEAA4 46B1DDA6 FD030E29\  
 \ D4B2C115 FFB0E27B 35226D5C DB059697 072E1226 \n EA6CBB4C A16E3967\  
 \ E465468A 3385E83 D41E3FA6 8A09693B BC6854C3 B83F6FC1 \n CEE66AB2\  
 \ DA19D9B5 92D8EF96 6721783A 2451D2C7 617AE69F D85E79DD 4411C097 \n\  
  
 \ 616B938F B24FC085 E31919A5 0B85A08A CAB0E2C6 2EBE18CB E81B5764\  
 \ F1ACBD09 \n D99EC41B 87C9B6CE 7C488B25 21A0B6A3 B1C9DD8C 54DD3A10\  
 \ 07B19416 33AE457A \n E56E5148 C031620F 42F92287 F6FF744D \n quit \n\  
 crypto pki certificate chain SLA-TrustPoint \n certificate ca 01 \n\  
 \ 30820321 30820209 A0030201 02020101 300D0609 2A864886 F70D0101\  
 \ 0B050030 \n 32310E30 0C060355 040A1305 43697363 6F312030 1E060355\  
 \ 04031317 43697363 \n 6F204C69 63656E73 696E6720 526F6F74 20434130\  
 \ 1E170D31 33303533 30313934 \n 3834375A 170D3338 30353330 31393438\  
 \ 34375A30 32310E30 0C060355 040A1305 \n 43697363 6F312030 1E060355\  
 \ 04031317 43697363 6F204C69 63656E73 696E6720 \n 526F6F74 20434130\  
 \ 82012230 0D06092A 864886F7 0D010101 05000382 010F0030 \n 82010A02\  
 \ 82010100 A6BCBD96 131E05F7 145EA72C 2CD686E6 17222EA1  
 F1EFF64D \n\  
 \ CBB4C798 212AA147 C655D8D7 9471380D 8711441E 1AAF071A 9CAE6388\  
 \ 8A38E520 \n 1C394D78 462EF239 C659F715 B98C0A59 5BBB5CBD 0CFEBEA3\  
 \ 700A8BF7 D8F256EE \n 4AA4E80D DB6FD1C9 60B1FD18 FFC69C96 6FA68957\  
 \ A2617DE7 104FDC5F EA2956AC \n 7390A3EB 2B5436AD C847A2C5 DAB553EB\  
 \ 69A9A535 58E9F3E3 C0BD23CF 58BD7188 \n 68E69491 20F320E7 948E71D7\  
 \ AE3BCC84 F10684C7 4BC8E00F 539BA42B 42C68BB7 \n C7479096 B4CB2D62\  
 \ EA2F505D C7B062A4 6811D95B E8250FC4 5D5D5FB8 8F27D191 \n C55F0D76\  
 \ 61F9A4CD 3D992327 A8BB03BD 4E6D7069 7CBADF8B DF5F4368 95135E44 \n\  
 \ DFC7C6CF 04DD7FD1 02030100 01A34230 40300E06 03551D0F 0101FF04\  
 \ 04030201 \n 06300F06 03551D13 0101FF04 05300301 01FF301D 0603551D\  
 \ 0E041604 1449DC85 \n 4B3D31E5 1B3E6A17 606AF333 3D3B4C73 E8300D06\  
 \ 092A8648 86F70D01 010B0500  
 \n 03820101 00507F24 D3932A66 86025D9F\  
 \ E838AE5C 6D4DF6B0 49631C78 240DA905 \n 604EDCDE FF4FED2B 77FC460E\  
 \ CD636FDB DD44681E 3A5673AB 9093D3B1 6C9E3D8B \n D98987BF E40CBD9E\  
 \ 1AECA0C2 2189BB5C 8FA85686 CD98B646 5575B146 8DFC66A8 \n 467A3DF4\  
 \ 4D565700 6ADF0F0D CF835015 3C04FF7C 21E878AC 11BA9CD2 55A9232C \n\  
 \ 7CA7B7E6 C1AF74F6 152E99B7 B1FCF9BB E973DE7F 5BDDEB86 C71E3B49\  
 \ 1765308B \n 5FB0DA06 B92AFE7F 494E8A9E 07B85737 F3A58BE1 1A48A229\  
 \ C37C1E69 39F08678 \n 80DDCD16 D6BACECA EEBC7CF9 8428787B 35202CDC\  
 \ 60E4616A B623CDBD 230E3AFB \n 418616A9 4093E049 4D10AB75 27E86F73\  
 \ 932E35B5 8862FDAE 0275156F 719BB2F0 \n D697DF7F 28 \n quit \n\



content:  
 application/json:  
 schema:  
 \$ref: '#/components/schemas/Error'

description: Bad Request

"401":

content:  
 application/json:  
 schema:  
 \$ref: '#/components/schemas/Error'

description: Unauthenticated

"403":

content:  
 application/json:  
 schema:  
 \$ref: '#/components/schemas/Error'

description: Unauthorized

"404":

content:  
 application/json:  
 schema:  
 \$ref: '#/components/schemas/Error'

description: Not Found

"500":

content:  
 application/json:  
 schema:  
 \$ref: '#/components/schemas/Error'

description: Internal Server Error

summary: Returns the running configuration for a device.

tags:

- Devices

/manage/api/v8/devices/{id}/templates:

delete:

operationId: detachDeviceTemplates

parameters:

- explode: false

in: path

name: id

required: true

schema:

type: string

style: simple

responses:

"200":

content:  
 application/json:  
 schema:

```
    items:
      $ref: '#/components/schemas/DeviceTemplateHistory'
    type: array
  description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
summary: Detach device templates that are already attached to a device.
tags:
- Devices
get:
  operationId: getDeviceTemplateHistory
  parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      type: string
    style: simple
  responses:
```

"200":

content:

- application/json:
- schema:
- items:
  - \$ref: '#/components/schemas/DeviceTemplateHistory'
- type: array

description: OK

"400":

content:

- application/json:
- schema:
  - \$ref: '#/components/schemas/Error'

description: Bad Request

"401":

content:

- application/json:
- schema:
  - \$ref: '#/components/schemas/Error'

description: Unauthenticated

"403":

content:

- application/json:
- schema:
  - \$ref: '#/components/schemas/Error'

description: Unauthorized

"404":

content:

- application/json:
- schema:
  - \$ref: '#/components/schemas/Error'

description: Not Found

"500":

content:

- application/json:
- schema:
  - \$ref: '#/components/schemas/Error'

description: Internal Server Error

summary: Returns device template history.

tags:

- Devices

post:

operationId: attachDeviceTemplates

parameters:

- explode: false
- in: path

```

name: id
required: true
schema:
  type: string
style: simple
requestBody:
  content:
    application/json:
      example:
        templateDetails:
          - templateId: e7e20070-9d67-40a8-a21d-f655606b7421
            templateParams:
              - name: name1
                value: value10461b304-da18-42bd-a48b-502d8e5166a4
              - name: name2
                value: value217c83dd3-f732-4a36-ae27-d86599c7f513
          - templateId: 87710499-3431-4c53-8ce2-c28170c261e7
            templateParams:
              - name: name1
                value: value1fc9ca565-8a74-401a-9dce-5fe35d203150
              - name:
name2
                value: value2bfde5275-8d32-4e2c-b023-7b987cb9a1ff
            schema:
              $ref: '#/components/schemas/DeviceTemplateAttachRequest'
        required: true
      responses:
        "200":
          content:
            application/json:
              example:
                - id: c71f9101-11bb-4a46-bf32-a48c6751d6fd
                  deviceId: 50a2a1ae-f4c9-4b40-a369-32352d6221e9
                  templateId: e7e20070-9d67-40a8-a21d-f655606b7421
                  templateParams:
                    - name: name1
                      value: value10461b304-da18-42bd-a48b-502d8e5166a4
                    - name: name2
                      value: value217c83dd3-f732-4a36-ae27-d86599c7f513
                  status: Applying
                  lastUpdated: 2020-08-06 18:26:35+0000
                  userId: f6bb602c-5ef9-4b7c-878b-9e7a7ef6977c
                - id: eb84a750-f1da-4161-b594-a284ef09eba8
                  deviceId: 50a2a1ae-f4c9-4b40-a369-32352d6221e9
                  templateId:
87710499-3431-4c53-8ce2-c28170c261e7
                  templateParams:
                    - name: name1

```

value: value1fc9ca565-8a74-401a-9dce-5fe35d203150  
- name: name2  
value: value2bfde5275-8d32-4e2c-b023-7b987cb9a1ff  
status: Applying  
lastUpdated: 2020-08-06 18:26:35+0000  
userId: f6bb602c-5ef9-4b7c-878b-9e7a7ef6977c  
schema:  
items:  
  \$ref: '#/components/schemas/DeviceTemplateHistory'  
  type: array  
description: OK  
"400":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
  description: Bad Request  
"401":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
  description: Unauthenticated  
"403":  
content:  
  application/json:  
  
  schema:  
    \$ref: '#/components/schemas/Error'  
  description: Unauthorized  
"404":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
  description: Not Found  
"500":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
  description: Internal Server Error  
summary: Attaches one or more device templates to a device instance.  
tags:  
- Devices  
put:  
  operationId: updateDeviceTemplates  
  parameters:

```
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
  style: simple
requestBody:
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/DeviceTemplateUpdateRequest'
  required: true
responses:
  "200":
    content:

      application/json:
        schema:
          items:
            $ref: '#/components/schemas/DeviceTemplateHistory'
          type: array
        description: OK
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthorized
  "404":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Not Found
  "500":
```



```
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
    description: Internal Server Error
summary: Update device templates that are already attached to a device.
tags:
- Devices
/manage/api/v8/devices/{id}/templates/{templateId}:
delete:
  operationId: detachDeviceTemplate
  parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      type: string
      style: simple
  - explode: false
    in: path
    name: templateId
    required: true
    schema:
      format: uuid
      type: string
      style: simple
  responses:
    "200":
      content:
        application/json:
          schema:
            items:
              $ref: '#/components/schemas/DeviceTemplateHistory'
            type: array
          description: OK
    "400":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'

      description: Bad Request
    "401":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
```

```
description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Detaches a template from a device.
tags:
  - Devices
/manage/api/v8/devices/{id}/redeploy:
  post:
    operationId: redeployDevice
    parameters:
      - explode: false
        in: path
        name: id
        required: true

schema:
  type: string
  style: simple
responses:
  "200":
    description: OK
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
```

```

description: Unauthenticated
"403":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Unauthorized
"409":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Conflict
"500":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Dedeploys
a device.
tags:
- Devices
/manage/api/v8/devicetemplates:
post:
operationId: createDeviceTemplate
requestBody:
content:
  application/json:
    example:
      name: name-8d4a2628-06c0-436b-8a90-d90027917405
      version: v1
      serviceType: manageddevice
      configContent: string
      templateStandard: nso
      tenantAccess:
        global: true
    schema:
      $ref: '#/components/schemas/DeviceTemplateCreate'
required: true
responses:
"201":
content:
  application/json:
    example:
      name: name-8d4a2628-06c0-436b-8a90-d90027917405
      version: v1
      serviceType: manageddevice

```

configContent: string  
templateStandard: nso  
tenantAccess:  
    templateId: beaf0bee-bdf9-4ade-993a-de352fa38bc7

global: true  
id: beaf0bee-bdf9-4ade-993a-de352fa38bc7  
userId: f1a0f9cc-08c1-4190-98b9-48b0988b9c7f  
createdOn: 2020-08-06T19:37:55.615Z  
schema:  
    \$ref: '#/components/schemas/DeviceTemplate'  
description: Created  
"400":  
content:  
    application/json:  
        schema:  
            \$ref: '#/components/schemas/Error'  
description: Bad Request  
"401":  
content:  
    application/json:  
        schema:  
            \$ref: '#/components/schemas/Error'  
description: Unauthenticated  
"403":  
content:  
    application/json:  
        schema:  
            \$ref: '#/components/schemas/Error'  
description: Unauthorized  
"500":  
content:  
    application/json:  
        schema:  
            \$ref: '#/components/schemas/Error'  
description: Internal Server

#### Error

summary: Creates a device template.  
tags:  
- Device Templates  
/manage/api/v8/devicetemplates/list:  
get:  
    operationId: getDeviceTemplatesList  
parameters:  
- example: manageddevice  
explode: true  
in: query  
name: serviceType

required: false  
schema:  
  type: string  
  style: form  
- example: 2664f157-18d8-4ecd-8c78-66b7cb7e1e25  
explode: true  
in: query  
name: tenantId  
required: false  
schema:  
  format: uuid  
  type: string  
  style: form  
responses:  
"200":  
  content:  
    application/json:  
      example:  
        - name: name-8d4a2628-06c0-436b-8a90-d90027917405  
          version: v1  
          serviceType: manageddevice  
          templateStandard: nso  
          id: beaf0bee-bdf9-4ade-993a-de352fa38bc7  
          userId: f1a0f9cc-08c1-4190-98b9-48b0988b9c7f  
  
        createdOn: 2020-08-06T19:37:55.615Z  
        - name: name-5cba2b31-93e7-4968-8a3a-a20552bc527b  
          version: v1  
          serviceType: manageddevice  
          templateStandard: nso  
          id: 1f3098f9-884d-485a-b1cb-501067f5142a  
          userId: c0c3cff0-d5d5-11ea-b88a-a7053c652ef4  
          createdOn: 2020-08-06T19:40:41.316Z  
        - name: name-54852468-0eca-4d60-9764-5f207090954d  
          version: v1  
          serviceType: manageddevice  
          templateStandard: nso  
          id: 5af62fa7-c753-43a9-8b69-be87e08ab8f7  
          userId: c0c3cff0-d5d5-11ea-b88a-a7053c652ef4  
          createdOn: 2020-08-06T19:40:41.235Z  
        - name: name-c24fe522-ca69-4be1-829b-518478e4d2ee  
          version: v1  
          serviceType: manageddevice  
          templateStandard: nso  
          id: e7e20070-9d67-40a8-a21d-f655606b7421  
          userId: c0c3cff0-d5d5-11ea-b88a-a7053c652ef4  
          createdOn: 2020-08-06T18:26:28.021Z  
        - name: name-42e1aabb-45cf-4209-8de0-250aaaf88715

```

version: v1
serviceType: manageddevice
templateStandard: nso
id: f3b096d8-5633-4956-bb2f-1aa8f0f5b122
userId: c0c3cff0-d5d5-11ea-b88a-a7053c652ef4
createdOn: 2020-08-06T19:40:41.092Z
- name: name-38bc5ad4-a94e-4904-a1ff-12add574efb
version: v1
serviceType: manageddevice
templateStandard: nso
id: 87710499-3431-4c53-8ce2-c28170c261e7
userId: c0c3cff0-d5d5-11ea-b88a-a7053c652ef4
createdOn: 2020-08-06T18:26:28.131Z
- name: managed-device-regression-test-template-80f3f736-1692-4128-92f1-b109c1bf12d3
version: v1
serviceType: manageddevice
templateStandard: nso
id: 7919b9e2-cbbb-44f4-9dd1-f29f37d91144
userId: c0c3cff0-d5d5-11ea-b88a-a7053c652ef4
createdOn: 2020-08-04T20:30:52.486Z
- name: name-f3f300c9-94e5-46ac-88d8-f8bb5cbb4b1a
version: v1
serviceType: manageddevice
templateStandard: nso
id: 5a6e44b7-987c-476f-9b52-b7506dfd0ac4
userId: b77fb077-997a-401b-b6c8-08a4b89e383a
createdOn: 2020-08-04T21:27:21.467Z
schema:
  items:
    $ref: '#/components/schemas/DeviceTemplate'
  type: array
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated

"403":
  content:
    application/json:

```

```

    schema:
      $ref: '#/components/schemas/Error'
    description: Unauthorized
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Internal Server Error
    summary: Returns a list of device templates.
    tags:
      - Device Templates
/manage/api/v8/devicetemplates/{id}:
  delete:
    operationId: deleteDeviceTemplate
    parameters:
      - explode: false
        in: path
        name: id
        required: true
        schema:
          format: uuid
          type: string
          style: simple
    responses:
      "204":
        description: No Content
      "400":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'
            description: Bad Request
      "401":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'
            description: Unauthenticated
      "403":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'
            description: Unauthorized
      "404":
        content:
          application/json:

```

```
    schema:
      $ref: '#/components/schemas/Error'
  description: Not Found
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Internal Server Error
    summary: Deletes a device template.
  tags:
    - Device Templates
  get:
    operationId: getDeviceTemplate
  parameters:
    - explode: false
      in: path
      name: id
      required: true
      schema:
        format: uuid
        type: string
        style: simple
  responses:
    "200":
      content:
        application/json:
          example:
            name: name-de8f846f-199e-48e4-ad85-831f284329bb
            version: v1
            serviceType: manageddevice
            configContent: string
            templateStandard: nso
            tenantAccess:
              tenantIds: []
              global: true
            id: 031c3a01-8419-41ac-b356-5f98eb53f944
            userId: c0c3cff0-d5d5-11ea-b88a-a7053c652ef4
            createdOn: 2020-08-06T19:42:17.684Z
          schema:
            $ref: '#/components/schemas/DeviceTemplate'
        description: OK
    "400":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
        description: Bad Request
```



"401":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Unauthenticated

"403":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Unauthorized

"404":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Not Found

"500":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Internal Server Error  
summary: Returns a device template.  
tags:  
- Device Templates

/manage/api/v8/devicetemplates/{id}/access:  
put:  
  operationId: updateDeviceTemplateAccess  
  parameters:  
- explode: false  
  in: path  
  name: id  
  required: true  
  schema:  
    format: uuid  
    type: string  
    style: simple  
  requestBody:  
    content:  
      application/json:  
        example:  
          templateId: 49baa22e-9c25-4adc-ae30-21153965ea66  
          tenantIds:  
          - e6d0e662-ed66-43ab-977a-35efc6cafe10  
        schema:  
          \$ref: '#/components/schemas/DeviceTemplateAccess'

required: true

responses:

"200":

content:

application/json:

example:

successListOfTenants:

- e6d0e662-ed66-43ab-977a-35efc6cafe10

failureListOfTenants: []

schema:

\$ref: '#/components/schemas/DeviceTemplateAccessResponse'

description: OK

"400":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Bad Request

"401":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Unauthenticated

"403":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Unauthorized

"404":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Not Found

"500":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Internal Server Error

summary: Updates device template access.

tags:

- Device Templates

/manage/api/v8/services:

get:

operationId: getServicesPage

parameters:

- allowEmptyValue: false

explode: true

in: query

name: tenantIds

required: false

schema:

items:

format: uuid

type: string

type: array

style: form

- explode: true

in: query

name: page

required: true

schema:

example: 0

format: int32

minimum: 0

type: integer

style: form

- explode: true

in: query

name: pageSize

required: true

schema:

example: 10

format: int32

maximum: 1000

minimum: 1

type: integer

style: form

responses:

"200":

content:

application/json:

example:

page: 0

pageSize: 10

hasNext: false

hasPrevious: false

contents:

- id: 3d99211e3095-cf29ee50a8e3464d80ca5593d6a4d7b5-manageddevice

providerId: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266

tenantId: 3d99211e-3095-489f-a5df-87780bbb99fd

userId: fbcf7fa8-7cf8-42ce-8704-c66cfa42df9d

subscriptionId: 3d99211e3095-cf29ee50a8e3464d80ca5593d6a4d7b5-manageddevice

tenantName: 3d99211e-3095-489f-a5df-87780bbb99fd

createdOn: 2020-08-06T20:26:45.956Z

status:

lifeCycleStatus: Ordering

definitionAttributes:

name: manageddevice

id: 5872e764-c459-11e7-abc4-cec278b6b50a

offerName: cisco.consume.service.manageddevice.label

type: manageddevice

attributes:

template: manageddevice-2.0.ftl

orchestrator: ncs

incomplete: "true"

version: "1"

- id: 87f25b975cfa-4e44cd52703d4de4af57a82eb1b23bb6-manageddevice

providerId: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266

tenantId: 87f25b97-5cfa-4f30-b72c-a6c1ee13fa87

userId: 876a8f91-ba41-40e5-813d-c2688baebd1a

subscriptionId: 87f25b975cfa-4e44cd52703d4de4af57a82eb1b23bb6-manageddevice

tenantName: 87f25b97-5cfa-4f30-b72c-a6c1ee13fa87

createdOn: 2020-08-06T20:22:56.414Z

status:

lifeCycleStatus: Ordering

definitionAttributes:

name: manageddevice

id: 5872e764-c459-11e7-abc4-cec278b6b50a

offerName: cisco.consume.service.manageddevice.label

type: manageddevice

attributes:

template: manageddevice-2.0.ftl

orchestrator: ncs

incomplete: "true"

version: "1"

- id: d5c9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice

providerId: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266

tenantId: 985b22a2-00a8-4cea-b9ed-50e76b2b5949

userId: c0c3cff0-d5d5-11ea-b88a-a7053c652ef4

subscriptionId: d5c9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice

tenantName: d5c9dc30-0232-499b-a8f3-3962c3138159

createdOn: 2020-08-04T21:01:47.148Z

provisionedOn: 2020-08-04T21:01:47.093Z

status:

lifeCycleStatus: Provisioned

definitionAttributes:

name: Managed Device

id: 5872e764-c459-11e7-abc4-cec278b6b50a

offerName: Managed Device

```

    type: manageddevice
  attributes:
    template: manageddevice-2.0.ftl
    orchestrator: ncs
    platform-service-instance-id: d5c9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice
    devices: '[{"status-message":"Operation ADD on device CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3
      with serial number 97K7C3YDPY1 was a SUCCESS","name":"CPE-828dcb62-2345-4b8f-b5af-
      5db230a95cd3","attributes":[{"attrib-name":"ipaddress","attrib-value":"10.254.0.1"},{"attrib-
      name":"hostname","attrib-value":"CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3"},{"attrib-
      name":"subtype","attrib-value":"ISR"},{"attrib-name":"name","attrib-value":"CPE-828dcb62-2345-4b8f-b5af-
      5db230a95cd3"},{"attrib-name":"ned-id","attrib-value":"cisco-ios-cli-6.37"},{"attrib-name":"model","attrib-
      value":"CSR1000V"},{"attrib-name":"serialKey","attrib-value":"97K7C3YDPY1"},{"attrib-name":"type","attrib-
      value":"CPE"},{"attrib-name":"category","attrib-value":"CPE"},{"attrib-name":"version","attrib-
      value":"16.9.5"}],"operation":"ADD","status":"SUCCESS"}]'
      name: CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3
      provisionTimestamp: Tue Aug 04 21:01:47 UTC 2020
      provisionTimestampNumber: "1596574907112"
      version: "1"
- id: b33666428865-5d0511e7935d41dc8288f7c76a4fbf3c-manageddevice
  providerId: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266
  tenantId: b3366642-8865-407f-a8e3-5fa56868f74f
  userId: 5915c0c4-8b9b-4480-b034-5fca26e6ce7c
  subscriptionId: b33666428865-5d0511e7935d41dc8288f7c76a4fbf3c-manageddevice
  tenantName: b3366642-8865-407f-a8e3-5fa56868f74f
  createdOn: 2020-08-06T20:26:44.819Z
  status:
    lifeCycleStatus: Ordering
  definitionAttributes:
    name: manageddevice
    id: 5872e764-c459-11e7-abc4-cec278b6b50a
    offerName: cisco.consume.service.manageddevice.label
    type: manageddevice
  attributes:
    template: manageddevice-2.0.ftl
    orchestrator: ncs
    incomplete: "true"
    version: "1"
  schema:
    $ref: '#/components/schemas/ServicesPage'
  description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request
"401":
  content:

```

application/json:  
  schema:  
    \$ref: '#/components/schemas/Error'  
description: Unauthenticated  
"403":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
description: Unauthorized  
"500":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
description: Internal Server Error  
summary: Returns a page of services.  
tags:  
- Services  
post:  
  operationId: submitOrder  
  parameters:  
- explode: true  
  in: query  
  name: productId  
  required: true  
  schema:  
    format: uuid  
    type: string  
  style: form  
- explode: true  
  in: query  
  name: offerId  
  required: true  
  schema:  
    format: uuid  
  
  type: string  
  style: form  
requestBody:  
  content:  
    application/json:  
      example:  
        type: request  
        serviceType: manageddevice  
        action: orderOffer  
      payload:  
        service:

```
template: manageddevice-2.0.ftl
orchestrator: ncs
incomplete: "true"
name: manageddevice
id: 5872e764-c459-11e7-abc4-cec278b6b50a
type: manageddevice
version: "1"
tenant:
  id: 87f25b97-5cfa-4f30-b72c-a6c1ee13fa87
  name: b2b77db8-dbd9-46b4-8db5-6da58b36984e
user:
  name: Super
  id: superuser
provider:
  id: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266
  name: CiscoSystems
offer:
  id: 627a75ec-c459-11e7-abc4-cec278b6b50a

name: cisco.consume.service.manageddevice.label
type: full
label: cisco.consume.manageddevice.offer.manageddevice.full
cost:
  deviceTotal: "0"
  deviceTotalType: USD
  serviceTotal: "0"
  serviceTotalType: USD
subscriptionDetail:
  sites: []
  serviceInstanceDetail:
    tenantId: 87f25b97-5cfa-4f30-b72c-a6c1ee13fa87
    tenantName: b2b77db8-dbd9-46b4-8db5-6da58b36984e
  serviceDowngrade: { }
nsoResponseTypes:
  createOperation: pnp
  updateOperation: pnp
  deleteOperation: pnp
schema:
  $ref: '#/components/schemas/LegacyServiceOrder'
required: true
responses:
  "201":
    content:
      application/json:
        example:
          message:
Order submitted successfully.
transactionUUID: a25a8111-bced-4446-a9ad-d681b13d1b2d
```

subscriptionId: 87f25b975cfa-4e44cd52703d4de4af57a82eb1b23bb6-manageddevice  
url: /v1/services/5872e764-c459-11e7-abc4-cec278b6b50a/offers/627a75ec-c459-11e7-abc4-  
cec278b6b50a

status: success  
serviceInstanceIds:  
- 87f25b975cfa-4e44cd52703d4de4af57a82eb1b23bb6-manageddevice  
sites: []  
schema:  
\$ref: '#/components/schemas/LegacyServiceOrderResponse'  
description: Created

"400":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Bad Request

"401":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Unauthenticated

"403":  
content:

application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Unauthorized

"500":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Internal Server Error

summary: Submits an order.  
tags:  
- Services

put:  
operationId: updateOrder  
parameters:  
- explode: true  
in: query  
name: productId  
required: true  
schema:  
format: uuid  
type: string



style: form  
- explode: true  
in: query  
name: offerId  
required: true  
schema:  
  format: uuid  
  type: string  
style: form  
requestBody:  
  content:  
    application/json:  
      example:  
        type: request  
        serviceType: manageddevice  
        action: orderOffer  
        payload:  
          service:  
            template: manageddevice-2.0.ftl  
            orchestrator: ncs  
            incomplete: "true"  
            name: manageddevice  
            id: 5872e764-c459-11e7-abc4-cec278b6b50a  
            type: manageddevice  
            version: "1"  
          tenant:  
            id: b3366642-8865-407f-a8e3-5fa56868f74f  
            name: 717fc5a0-e515-40dd-a2a9-2436d0b7af74  
          user:  
            name: Super  
            id: superuser  
          provider:  
            id: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266  
            name: CiscoSystems  
          offer:  
            id: 627a75ec-c459-11e7-abc4-cec278b6b50a  
            name: cisco.consume.service.manageddevice.label  
            type: full  
            label: cisco.consume.manageddevice.offer.manageddevice.full  
          cost:  
            deviceTotal: "0"  
            deviceTotalType: USD  
  
          serviceTotal: "0"  
            serviceTotalType: USD  
          subscriptionDetail:  
            sites: []  
            serviceInstanceDetail:

```
    tenantId: b3366642-8865-407f-a8e3-5fa56868f74f
    tenantName: 717fc5a0-e515-40dd-a2a9-2436d0b7af74
    serviceDowngrade: {}
    nsoResponseTypes:
      createOperation: pnp
      updateOperation: pnp
      deleteOperation: pnp
    schema:
      $ref: '#/components/schemas/LegacyServiceOrder'
  required: true
  responses:
    "200":
      content:
        application/json:
          example:
            message: Edit order submitted successfully.
            transactionUUID: 15acc700-dcba-4ece-85f5-0e2da9034019
            url: /v1/services/5872e764-c459-11e7-abc4-cec278b6b50a/offers/627a75ec-c459-11e7-abc4-
cec278b6b50a
            status: success
            serviceInstanceIds:
              - 3d99211e3095-cf29ee50a8e3464d80ca5593d6a4d7b5-manageddevice
            sites: []
            schema:
              $ref: '#/components/schemas/LegacyServiceOrderResponse'
          description: OK
    "400":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
          description: Bad Request
    "401":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
          description: Unauthenticated
    "403":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
          description: Unauthorized
    "500":
      content:
        application/json:
          schema:
```

\$ref: '#/components/schemas/Error'  
    description: Internal Server Error  
summary: Updates an order.  
tags:  
- Services  
/manage/api/v8/services/{id}:  
delete:  
  operationId: deleteService  
  parameters:  
  - explode: false  
  in: path  
  name: id  
  required: true  
  schema:  
    type: string  
  style: simple  
responses:  
  "204":  
    description: No Content  
  "400":  
    content:  
      application/json:  
        schema:  
          \$ref: '#/components/schemas/Error'  
    description: Bad Request  
  "401":  
    content:  
      application/json:  
        schema:  
          \$ref: '#/components/schemas/Error'  
    description: Unauthenticated  
  "403":  
    content:  
      application/json:  
        schema:  
          \$ref: '#/components/schemas/Error'  
    description: Unauthorized  
  "404":  
    content:  
      application/json:  
        schema:  
          \$ref: '#/components/schemas/Error'  
    description: Not Found  
  "500":  
    content:  
      application/json:  
        schema:  
          \$ref: '#/components/schemas/Error'

description: Internal Server Error

summary: Deletes a service.

tags:

- Services

get:

operationId: getService

parameters:

- explode: false

in: path

name: id

required: true

schema:

type: string

style: simple

responses:

"200":

content:

application/json:

example:

id: d5c9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice

providerId: fe3ad89c-449f-42f2-b4f8-b10ab7bc0266

tenantId: 985b22a2-00a8-4cea-b9ed-50e76b2b5949

userId: c0c3cff0-d5d5-11ea-b88a-a7053c652ef4

subscriptionId: d5c9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice

tenantName: d5c9dc30-0232-499b-a8f3-3962c3138159

createdOn:

2020-08-04T21:01:47.148Z

provisionedOn: 2020-08-04T21:01:47.093Z

status:

lifeCycleStatus: Provisioned

definitionAttributes:

name: Managed Device

offerName: Managed Device

id: 5872e764-c459-11e7-abc4-cec278b6b50a

type: manageddevice

attributes:

template: manageddevice-2.0.ftl

orchestrator: ncs

platform-service-instance-id: d5c9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice

devices: [{"status-message": "Operation ADD on device CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3 with serial number 97K7C3YDPY1 was a SUCCESS", "name": "CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3", "attributes": [{"attrib-name": "ipaddress", "attrib-value": "10.254.0.1"}, {"attrib-name": "hostname", "attrib-value": "CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3"}, {"attrib-name": "subtype", "attrib-value": "ISR"}, {"attrib-name": "name", "attrib-value": "CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3"}, {"attrib-name": "ned-id", "attrib-value": "cisco-ios-cli-6.37"}, {"attrib-name": "model", "attrib-value": "CSR1000V"}, {"attrib-name": "serialKey", "attrib-value": "97K7C3YDPY1"}, {"attrib-name": "type", "attrib-value": "CPE"}, {"attrib-name": "category", "attrib-value": "CPE"}, {"attrib-name": "version", "attrib-value": "16.9.5"}], "operation": "ADD", "status": "SUCCESS"}]

name: CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3  
provisionTimestamp: Tue Aug 04 21:01:47 UTC 2020  
provisionTimestampNumber: "1596574907112"  
version: "1"  
schema:  
  \$ref: '#/components/schemas/Service'  
description: Success  
"401":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
      description: Unauthenticated  
"403":  
  content:  
  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
    description: Unauthorized  
"404":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
      description: Not Found  
"500":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
      description: Internal Server Error  
summary: Returns a service.  
tags:  
- Services  
/manage/api/v8/sites:  
  get:  
    operationId: getSitesPage  
    parameters:  
    - explode: true  
    in: query  
    name: tenantId  
    required: false  
    schema:  
    format: uuid  
    type: string  
    style: form  
    - explode: true

in: query  
name: serviceId  
required: false  
schema:  
  type: string  
  style: form  
- explode: true  
in: query  
name:  
serviceType  
  required: false  
  schema:  
    type: string  
    style: form  
- explode: true  
in: query  
name: deviceId  
required: false  
schema:  
  type: string  
  style: form  
- explode: true  
in: query  
name: parentId  
required: false  
schema:  
  type: string  
  style: form  
- explode: true  
in: query  
name: type  
required: false  
schema:  
  type: string  
  style: form  
- explode: true  
in: query  
name: managingControlPlaneId  
required: false  
schema:  
  type: string  
  style: form  
- explode: true  
in: query  
name: showImage  
required: false  
schema:  
  default: false

```
    type: boolean
    style: form
  - explode: true
  in: query
  name: page
  required: true
  schema:
    example: 0
    format:
int32
  minimum: 0
  type: integer
  style: form
  - explode: true
  in: query
  name: pageSize
  required: true
  schema:
    example: 10
    format: int32
    maximum: 1000
    minimum: 1
    type: integer
  style: form
responses:
  "200":
    content:
      application/json:
        example:
          page: 0
          pageSize: 10
          hasNext: false
          hasPrevious: false
          contents:
            - id: 83e31860-d699-11ea-ab1f-85a66520c057
              tenantId: 3ae1903b-a43e-4c18-9d01-983ef3b82eb5
              name: Site One
              description: A great description of site one.
              image: ""
              devices: []
              status:
                type: health
                name: healthStatus
                value: unknown
                severity: "3"
              lastUpdated: 2020-08-04T21:29:01.927Z
              lastUpdatedMessage: unknown
              createdOn: 2020-08-04T21:29:01.929Z
```

createdBy: 2817602d-ef21-49e3-acf6-f6c8f15a8d90  
modifiedOn: 2020-08-04T21:29:01.929Z  
modifiedBy: 2817602d-ef21-49e3-acf6-f6c8f15a8d90  
- id: fb6ee9a2-3bf2-4966-8c53-ebc3c3c5fa2f  
tenantId: 985b22a2-00a8-4cea-b9ed-50e76b2b5949  
name: Site Two  
description: A great description of site two.  
image: ""  
attributes:  
  tenantName: d5c9dc30-0232-499b-a8f3-3962c3138159  
  contactEmail: ""  
  contactName: ""  
  latitude: "43.6411344"  
  siteDescription: A great description of site two.  
  location: 88 Queens Quay W, Toronto, ON M5J, Canada  
  longitude: -79.37703469999997  
  devices:  
    - deviceId: CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3  
      serviceId: d5c9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice  
      serviceType: manageddevice  
  location:  
    latitude: 43.6411344  
    longitude: -79.37703469999997  
  status:  
    type: health  
    name: healthStatus  
    value: unknown  
    severity: "3"  
    lastUpdated: 2020-08-04T20:59:35.071Z  
    lastUpdatedMessage: unknown  
  createdOn: 2020-08-04T20:59:35.084Z  
  createdBy: superuser  
  modifiedOn: 2020-08-04T20:59:35.084Z  
  modifiedBy: superuser  
  schema:  
    \$ref: '#/components/schemas/SitesPage'  
  description: OK  
"400":  
  content:  
    application/json:

schema:  
  \$ref: '#/components/schemas/Error'  
  description: Bad Request  
"401":  
  content:  
    application/json:  
      schema:



```

    $ref: '#/components/schemas/Error'
  description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Internal Server Error
summary: Returns a page of Sites. Only one filter is supported at a time.
tags:
- Sites
post:
  operationId: createSite
  requestBody:
    content:
      application/json:
        example:
          tenantId: df50cb47-0348-4bbf-96e6-9d0904008c03
          deviceIds: []
          name: Your Site Name
          description:
A description of the site.
          schema:
            $ref: '#/components/schemas/SiteCreate'
          required: true
  responses:
    "201":
      content:
        application/json:
          example:
            id: fa1872f0-d824-11ea-ab1f-85a66520c057
            tenantId: df50cb47-0348-4bbf-96e6-9d0904008c03
            name: Your Site Name
            description: A description of the site.
            attributes: { }
            devices: []
            status:
              type: health
              name: healthStatus
              value: unknown
              severity: "3"
            lastUpdated: 2020-08-06T20:39:51.457707Z

```

lastUpdatedMessage: unknown  
createdOn: 2020-08-06T20:39:51.460741Z  
createdBy: 4d291eb4-bf0c-4ab2-b28e-5d0623a22964  
modifiedOn: 2020-08-06T20:39:51.460741Z  
modifiedBy: 4d291eb4-bf0c-4ab2-b28e-5d0623a22964  
schema:  
\$ref: '#/components/schemas/Site'  
description: Created  
"400":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Bad Request  
"401":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Unauthenticated  
"403":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Unauthorized  
"500":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Internal Server Error  
summary: Creates a new site.  
tags:  
- Sites  
/manage/api/v8/sites/{id}:  
delete:  
operationId: deleteSite  
parameters:  
- explode: false  
  
in: path  
name: id  
required: true  
schema:  
format: uuid  
type: string  
style: simple

responses:

"204":  
description: No Content

"400":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Bad Request

"401":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Unauthenticated

"403":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Unauthorized

"404":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Not Found

"500":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Internal Server Error

summary: Deletes a site.

tags:

- Sites

get:

operationId: getSite

parameters:

- explode: false

in: path

name: id

required: true

schema:

format: uuid

type: string

style: simple

- explode: true

in: query  
name: showImage  
required: false  
schema:  
  default: false  
  type: boolean  
style: form  
responses:  
  "200":  
    content:  
      application/json:  
        example:  
          id: fb6ee9a2-3bf2-4966-8c53-ebc3c3c5fa2f  
          tenantId: 985b22a2-00a8-4cea-b9ed-50e76b2b5949  
          name: Site Two  
          description: A great description of site two.  
          image: ""  
          attributes:  
            tenantName: d5c9dc30-0232-499b-a8f3-3962c3138159  
            contactEmail: ""  
  
          contactName: ""  
          latitude: "43.6411344"  
          siteDescription: A great description of site two.  
          location: 88 Queens Quay W, Toronto, ON M5J, Canada  
          longitude: -79.37703469999997  
          devices:  
            - deviceId: CPE-828dcb62-2345-4b8f-b5af-5db230a95cd3  
              serviceId: d5c9dc300232-4e8677d462dd49cab5298731a94c2da0-manageddevice  
              serviceType: manageddevice  
          location:  
            latitude: 43.6411344  
            longitude: -79.37703469999997  
          status:  
            type: health  
            name: healthStatus  
            value: unknown  
            severity: "3"  
            lastUpdated: 2020-08-04T20:59:35.071Z  
            lastUpdatedMessage: unknown  
          createdOn: 2020-08-04T20:59:35.084Z  
          createdBy: superuser  
          modifiedOn: 2020-08-04T20:59:35.084Z  
  
          modifiedBy: superuser  
          schema:  
            \$ref: '#/components/schemas/Site'  
          description: OK

"400":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Bad Request

"401":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Unauthenticated

"403":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Unauthorized

"404":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Not Found

"500":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Internal Server Error  
summary: Returns a site.

tags:

- Sites

put:

operationId: updateSite

parameters:

- explode: false

in: path

name: id

required: true

schema:

  format: uuid

  type: string

style: simple

- explode: true

in: query

name: sendNotification

required: false

```
schema:
  default: false
  type: boolean
  style: form
requestBody:
  content:
    application/json:
      example:
        name: Site Three
        description: A new description with better words.
        attributes: { }
      schema:
        $ref: '#/components/schemas/SiteUpdate'
  required: true
responses:
  "200":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Site'
    description: OK
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Unauthorized
  "404":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Not Found
  "500":
    content:
      application/json:
```

```
    schema:
      $ref: '#/components/schemas/Error'
    description: Internal Server Error
    summary: Updates a site.
    tags:
      - Sites
  /manage/api/v8/sites/{id}/devices/{deviceId}:
    delete:
      operationId: removeDeviceFromSite
      parameters:

- explode: false
  in: path
  name: id
  required: true
  schema:
    format: uuid
    type: string
    style: simple
- explode: false
  in: path
  name: deviceId
  required: true
  schema:
    type: string
    style: simple
responses:
  "204":
    description: No Content
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthorized
  "404":
```

```
content:
  application/json:
    schema:
      $ref:
'#/components/schemas/Error'
  description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
  summary: Removes a device from a site.
  tags:
  - Sites
put:
  operationId: addDeviceToSite
  parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      format: uuid
      type: string
      style: simple
  - explode: false
    in: path
    name: deviceId
    required: true
    schema:
      type: string
      style: simple
  - explode: true
    in: query
    name: sendNotification
    required: false
    schema:
      default: false
      type: boolean
      style: form
  responses:
    "200":
      content:
        application/json:
          example:
            id: ec53d570-d828-11ea-ab1f-85a66520c057
```



tenantId: 66290b34-91cb-42fe-9821-c2f8007b8af3  
name: Site Three  
description: This is the best site description.  
devices:  
- deviceId: 8352c1f7-6683-4514-8ab3-1dfc8d74d800  
  serviceId: Unknown  
  serviceType: manageddevice  
status:  
  type: health  
  name: healthStatus  
  value: unknown  
  severity: "3"  
  lastUpdated: 2020-08-06T21:08:06.345Z  
  lastUpdatedMessage: unknown  
createdOn: 2020-08-06T21:08:06.348Z  
createdBy: superuser  
modifiedOn: 2020-08-06T21:08:07.230928Z  
modifiedBy: a2dc0081-3fe1-4c99-8daf-736bfdab7546  
schema:  
  \$ref: '#/components/schemas/Site'  
description: OK  
"400":  
  content:  
    application/json:  
  
    schema:  
      \$ref: '#/components/schemas/Error'  
    description: Bad Request  
"401":  
  content:  
    application/json:  
  
    schema:  
      \$ref: '#/components/schemas/Error'  
    description: Unauthenticated  
"403":  
  content:  
    application/json:  
  
    schema:  
      \$ref: '#/components/schemas/Error'  
    description: Unauthorized  
"404":  
  content:  
    application/json:  
  
    schema:  
      \$ref: '#/components/schemas/Error'  
    description: Not Found  
"500":  
  content:

```
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
      summary: Adds a device to a site.
      tags:
        - Sites
/monitor/api/v8/health/devices/list:
  get:
    operationId: getDevicesHealthList
    parameters:
      - explode: true

    in: query
    name: ids
    required: true
    schema:
      items:
        type: string
      minItems: 1
      type: array
    style: form
  responses:
    "200":
      content:
        application/json:
          schema:
            items:
              $ref: '#/components/schemas/ResourceHealth'
            type: array
          description: OK
    "400":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
          description: Bad Request
    "401":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
          description: Unauthenticated
    "403":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
```

```

description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
  tags:
    - Health
/monitor/api/v8/health/services/list:
  get:
    operationId: getServicesHealthList
    parameters:
      - explode: true
      in: query
      name: ids
      required: true
      schema:
        items:
          type: string
        minItems: 1
        type: array
      style: form
    responses:
      "200":
        content:
          application/json:
            schema:
              items:
                $ref: '#/components/schemas/ResourceHealth'
              type: array
            description: OK
      "400":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'
            description: Bad Request
      "401":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'
            description: Unauthenticated
      "403":
        content:
          application/json:
            schema:

```

```
    $ref: '#/components/schemas/Error'
  description: Unauthorized
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Internal Server Error
  tags:
    - Health
/idm/v2/token:
  post:
    operationId: getAccessToken
    parameters:
      - explode: false
        in: header
        name: Authorization
        required: true
        schema:
          type: string
          style: simple
    requestBody:
      content:
        application/x-www-form-urlencoded:
          schema:
            $ref: '#/components/schemas/body'
    responses:
      "200":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/AccessToken'
        description: OK
      default:
        description: Failed
    summary: Returns an access token.
  tags:
    - Security
/idm/api/v8/roles/list:
  get:
    operationId: getRolesList
    parameters:
      - explode: true
        in: query
        name: ids
        required: true
        schema:
          items:
```

format: uuid  
type: string  
type: array  
style: form  
responses:  
"200":  
content:  
application/json:  
example:  
- id: c0895f00-d5d5-11ea-b88a-a7053c652ef4  
name: CONSUMER  
description: Tenant Administrators have Tenant Operator-level permissions,  
and can also perform more advanced tasks like managing service policies  
and configurations.  
permissions:  
- DEVICE\_MANAGEMENT  
- EXPORT\_SERVICE  
- MANAGE\_CATEGORY  
- MANAGE\_DEVICES  
  
- MANAGE\_DEVICE\_SECRETS  
- MANAGE\_INCIDENT  
- MANAGE\_MD\_DEVICE\_MODELS  
- MANAGE\_MD\_SITES  
- MANAGE\_REMOTE\_USERS  
- MANAGE\_SCHEDULE\_TASK  
- MANAGE\_SERVICES  
- MANAGE\_SERVICE\_CONFIG\_APPLICATION  
- MANAGE\_SITES  
- MANAGE\_TARGET  
- MANAGE\_WORKFLOW  
- MANAGE\_WORKFLOW\_INSTANCE  
- ORDER\_SERVICE  
- SWITCH\_TENANT  
- SWITCH\_TENANT\_UI  
- VBRANCH\_DEVICE\_ACCESS  
- VBRANCH\_MANAGE\_SITE  
- VBRANCH\_MANAGE\_TEMPLATE  
- VBRANCH\_MANAGE\_TEMPLATE\_DATA  
- VBRANCH\_VIEW\_SITES  
- VIEW\_ALERT\_SERVICE  
- VIEW\_ALL\_TEMPLATES  
- VIEW\_BUILD\_INFO  
- VIEW\_CATEGORY  
- VIEW\_CONTACT  
- VIEW\_CONTROL\_PLANE  
- VIEW\_DASHBOARD  
- VIEW\_DEVICES

- VIEW\_DEVICE\_RUNNING\_CONFIG
- VIEW\_DEVICE\_SECRETS
- VIEW\_DOCUMENTATION
- VIEW\_END\_USER
- VIEW\_EVENTLOG
- VIEW\_EXTENSION\_PARAMETERS
- VIEW\_INCIDENT
- VIEW\_INTEGRATION
- VIEW\_LOCALE
- VIEW\_LOCALE\_STRING
- VIEW\_MAINTENANCE\_INFO
- VIEW\_MD\_DEVICE\_MODELS
- VIEW\_MD\_METRICS
- VIEW\_MD\_PARAMETERS
- VIEW\_MD\_SITES
- VIEW\_METRICS
- VIEW\_PRICE\_PLAN
- VIEW\_PROVIDER
- VIEW\_REMOTE\_USERS
- VIEW\_RESOURCES\_UI
- VIEW\_RUNNING\_CONFIG
- VIEW\_SCHEDULE\_TASK
- VIEW\_SECURITY\_SETTING
- VIEW\_SENSITIVE\_SERVICE\_CONFIG\_ASSET\_DETAIL
- VIEW\_SERVICES
- VIEW\_SERVICE\_CONFIG\_APPLICATION
  
- VIEW\_SERVICE\_CONFIG\_ASSET
  - VIEW\_SERVICE\_CONFIG\_ASSIGNMENT
  - VIEW\_SERVICE\_CONFIG\_AUDIT
  - VIEW\_SERVICE\_EXTENSION
  - VIEW\_SITES
  - VIEW\_STATUS
  - VIEW\_SUBSCRIPTIONS\_UI
  - VIEW\_TARGET
  - VIEW\_TENANT
  - VIEW\_TERMS\_CONDITIONS
  - VIEW\_WORKFLOW
  - VIEW\_WORKFLOW\_INSTANCE
- id: c08874a0-d5d5-11ea-b88a-a7053c652ef4
  - name: OPERATOR
  - description: Service Provider Operators support multiple customers by maintaining service information and settings, viewing / monitoring the SP-DNA platform, remediating basic customer issues and escalating more serious ones.
  - permissions:
    - ACCESS\_ALL\_TENANTS
    - ACCESS\_DEVICE\_TERMINAL

- DEVICE\_MANAGEMENT
- EXPORT\_SERVICE
- MANAGE\_ALERT\_SERVICE
  - MANAGE\_BULK\_IMPORT
  - MANAGE\_CONTROL\_PLANE
  - MANAGE\_DEVICES
  - MANAGE\_DEVICE\_SECRETS
  - MANAGE\_INCIDENT
  - MANAGE\_INTEGRATION
  - MANAGE\_MAINTENANCE\_INFO
  - MANAGE\_MD\_DEVICE\_MODELS
  - MANAGE\_MD\_SITES
  - MANAGE\_METADATA
  - MANAGE\_METRICS
  - MANAGE\_METRIC\_TEMPLATES
  - MANAGE\_NOTIFICATION
  - MANAGE\_NS0
  - MANAGE\_PROVIDER
  - MANAGE\_SCHEDULE\_TASK
  - MANAGE\_SECRET\_POLICIES
  - MANAGE\_SERVICES
  - MANAGE\_SERVICETYPES
  - MANAGE\_SERVICE\_CONFIG\_APPLICATION
  - MANAGE\_SERVICE\_CONFIG\_ASSET
  - MANAGE\_SERVICE\_CONFIG\_ASSIGNMENT
  - MANAGE\_SITES
  - MANAGE\_SLM
  - MANAGE\_SYSTEM\_SECRETS

-

#### MANAGE\_TARGET

- MANAGE\_TEMPLATES
- MANAGE\_TENANT
- MANAGE\_TERMS\_CONDITIONS
- MANAGE\_WORKFLOW\_EVENT
- MANAGE\_WORKFLOW\_INSTANCE
- MANAGE\_WORKFLOW\_RUNTIME\_USER
- MANAGE\_WORKFLOW\_SCHEDULE
- MANAGE\_WORKFLOW\_TABLE
- MANAGE\_WORKFLOW\_TABLE\_TYPE
- MANAGE\_WORKFLOW\_VARIABLE
- ORDER\_SERVICE
- REGISTER\_DEVICES
- REGISTER\_DEVICE\_ACTION
- SUSPEND\_TENANT
- SWITCH\_TENANT
- SWITCH\_TENANT\_UI
- UPGRADE\_DEVICES

- VBRANCH\_DEVICE\_ACCESS
- VBRANCH\_MANAGE\_SETTINGS
- VBRANCH\_MANAGE\_SITE
- VBRANCH\_MANAGE\_TEMPLATE
- VBRANCH\_MANAGE\_TEMPLATE\_DATA
- VBRANCH\_VIEW\_SITES
- VIEW\_ALERT\_SERVICE
- VIEW\_ALL\_TEMPLATES
  
- VIEW\_BUILD\_INFO
  - VIEW\_BULK\_IMPORT
  - VIEW\_COMPONENT\_METRICS
  - VIEW\_COMPONENT\_STATUS
  - VIEW\_CONTACT
  - VIEW\_CONTROL\_PLANE
  - VIEW\_DASHBOARD
  - VIEW\_DEVICES
  - VIEW\_DEVICE\_RUNNING\_CONFIG
  - VIEW\_DEVICE\_SECRETS
  - VIEW\_DOCUMENTATION
  - VIEW\_END\_USER
  - VIEW\_EVENTLOG
  - VIEW\_EXTENSION\_PARAMETERS
  - VIEW\_INCIDENT
  - VIEW\_INTEGRATION
  - VIEW\_LOCALE
  - VIEW\_LOCALE\_STRING
  - VIEW\_MAINTENANCE\_INFO
  - VIEW\_MD\_DEVICE\_MODELS
  - VIEW\_MD\_METRICS
  - VIEW\_MD\_PARAMETERS
  - VIEW\_MD\_SITES
  - VIEW\_METADATA
  - VIEW\_METRICS
  - VIEW\_METRIC\_TEMPLATES
  - VIEW\_NOTIFICATION
  - VIEW\_NS0
  - VIEW\_OPERATOR\_LOGIN\_AS\_CUSTOMER
  - VIEW\_OPERATOR\_SERVICES
  - VIEW\_OPERATOR\_SITES
  - VIEW\_PRICE\_PLAN
  - VIEW\_PROVIDER
  - VIEW\_REMOTE\_USERS
  - VIEW\_ROLE
  - VIEW\_RUNNING\_CONFIG
  - VIEW\_SCHEDULE\_TASK
  - VIEW\_SECRET\_POLICIES
  - VIEW\_SECURITY\_SETTING



- VIEW\_SENSITIVE\_SERVICE\_CONFIG\_ASSET\_DETAIL
- VIEW\_SERVICES
- VIEW\_SERVICE\_CONFIGURATION\_UI
- VIEW\_SERVICE\_CONFIG\_APPLICATION
- VIEW\_SERVICE\_CONFIG\_ASSET
- VIEW\_SERVICE\_CONFIG\_ASSIGNMENT
- VIEW\_SERVICE\_CONFIG\_AUDIT
- VIEW\_SERVICE\_EXTENSION
- VIEW\_SITES
- VIEW\_SLM
- VIEW\_STATUS
- VIEW\_SYSTEM\_SECRETS
- VIEW\_TARGET
- VIEW\_TENANT
- VIEW\_TERMS\_CONDITIONS

- VIEW\_WORKFLOW\_EVENT
  - VIEW\_WORKFLOW\_INSTANCE
  - VIEW\_WORKFLOW\_RUNTIME\_USER
  - VIEW\_WORKFLOW\_SCHEDULE
  - VIEW\_WORKFLOW\_TABLE
  - VIEW\_WORKFLOW\_TABLE\_TYPE
  - VIEW\_WORKFLOW\_VARIABLE

schema:

items:

\$ref: '#/components/schemas/Role'

type: array

description: OK

"400":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Bad Request

"401":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Unauthenticated

"403":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Unauthorized

"500":

content:

```

    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
      summary: Returns a list of roles.
      tags:
        - Roles
/idm/api/v8/roles/name/{name}:
  get:
    operationId: getRoleByName
    parameters:
      - example: CONSUMER
        explode: false
        in: path
        name: name
        required: true
        schema:
          type: string
          style: simple
    responses:
      "200":
        content:
          application/json:
            example:
              id: c0895f00-d5d5-11ea-b88a-a7053c652ef4
              name: CONSUMER
              description: Tenant Administrators have Tenant Operator-level permissions,
                and can also perform more advanced tasks like managing service policies
                and configurations.
              permissions:
                - DEVICE_MANAGEMENT
                - EXPORT_SERVICE
                - MANAGE_CATEGORY

                - MANAGE_DEVICES
                - MANAGE_DEVICE_SECRETS
                - MANAGE_INCIDENT
                - MANAGE_MD_DEVICE_MODELS
                - MANAGE_MD_SITES
                - MANAGE_REMOTE_USERS
                - MANAGE_SCHEDULE_TASK
                - MANAGE_SERVICES
                - MANAGE_SERVICE_CONFIG_APPLICATION
                - MANAGE_SITES
                - MANAGE_TARGET
                - MANAGE_WORKFLOW
                - MANAGE_WORKFLOW_INSTANCE
                - ORDER_SERVICE

```

- SWITCH\_TENANT
- SWITCH\_TENANT\_UI
- VBRANCH\_DEVICE\_ACCESS
- VBRANCH\_MANAGE\_SITE
- VBRANCH\_MANAGE\_TEMPLATE
- VBRANCH\_MANAGE\_TEMPLATE\_DATA
- VBRANCH\_VIEW\_SITES
- VIEW\_ALERT\_SERVICE
- VIEW\_ALL\_TEMPLATES
- VIEW\_BUILD\_INFO
- VIEW\_CATEGORY
- VIEW\_CONTACT
- VIEW\_CONTROL\_PLANE
  
- VIEW\_DASHBOARD
  - VIEW\_DEVICES
  - VIEW\_DEVICE\_RUNNING\_CONFIG
  - VIEW\_DEVICE\_SECRETS
  - VIEW\_DOCUMENTATION
  - VIEW\_END\_USER
  - VIEW\_EVENTLOG
  - VIEW\_EXTENSION\_PARAMETERS
  - VIEW\_INCIDENT
  - VIEW\_INTEGRATION
  - VIEW\_LOCALE
  - VIEW\_LOCALE\_STRING
  - VIEW\_MAINTENANCE\_INFO
  - VIEW\_MD\_DEVICE\_MODELS
  - VIEW\_MD\_METRICS
  - VIEW\_MD\_PARAMETERS
  - VIEW\_MD\_SITES
  - VIEW\_METRICS
  - VIEW\_PRICE\_PLAN
  - VIEW\_PROVIDER
  - VIEW\_REMOTE\_USERS
  - VIEW\_RESOURCES\_UI
  - VIEW\_RUNNING\_CONFIG
  - VIEW\_SCHEDULE\_TASK
  - VIEW\_SECURITY\_SETTING
  - VIEW\_SENSITIVE\_SERVICE\_CONFIG\_ASSET\_DETAIL
  - VIEW\_SERVICES
  - VIEW\_SERVICE\_CONFIG\_APPLICATION
  - VIEW\_SERVICE\_CONFIG\_ASSET
  - VIEW\_SERVICE\_CONFIG\_ASSIGNMENT
  - VIEW\_SERVICE\_CONFIG\_AUDIT
  - VIEW\_SERVICE\_EXTENSION
  - VIEW\_SITES
  - VIEW\_STATUS

- VIEW\_SUBSCRIPTIONS\_UI
- VIEW\_TARGET
- VIEW\_TENANT
- VIEW\_TERMS\_CONDITIONS
- VIEW\_WORKFLOW
- VIEW\_WORKFLOW\_INSTANCE

schema:

- \$ref: '#/components/schemas/Role'

description: OK

"400":

content:

- application/json:
- schema:
- \$ref: '#/components/schemas/Error'

description: Bad Request

"401":

content:

- application/json:
- schema:
- \$ref: '#/components/schemas/Error'

description: Unauthenticated

"403":

content:

- application/json:

schema:

- \$ref: '#/components/schemas/Error'

description: Unauthorized

"404":

content:

- application/json:
- schema:
- \$ref: '#/components/schemas/Error'

description: Not Found

"500":

content:

- application/json:
- schema:
- \$ref: '#/components/schemas/Error'

description: Internal Server Error

summary: Returns a role by name.

tags:

- Roles

/idm/api/v8/tenants:

get:

- operationId: getTenantsPage
- parameters:
- explode: true

in: query  
name: parentId  
required: false  
schema:  
  format: uuid  
  type: string  
style: form  
- explode: true  
in: query  
name: showImage  
required: false  
schema:  
  default: false  
  type: boolean  
style: form  
- explode: true  
in: query  
name: page  
required: true  
schema:  
  example: 0  
  format: int32  
  minimum: 0  
  type: integer  
style: form  
- explode: true  
in: query  
name: pageSize  
required: true  
schema:  
  example: 10  
  format: int32  
  maximum: 1000  
  minimum: 1  
  type: integer  
style: form  
- explode: true  
in: query  
name: sortBy  
required: false  
schema:  
  example: name  
  type: string  
style: form  
- explode: true  
in: query  
name: sortOrder  
required: false

schema:  
enum:  
- asc  
- desc  
type: string  
style: form  
responses:  
"200":  
content:  
application/json:  
example:  
page: 0  
pageSize: 3  
hasNext: true  
hasPrevious: false  
contents:  
  
- id: ea7e39f2-863a-41b8-a6eb-6d730bc200b0  
createdOn: 2020-08-05T21:29:46.782Z  
modifiedOn: 2020-08-05T21:29:46.782Z  
suspended: false  
name: Acme Company  
description: An anvil for every roadrunner.  
url: https://cisco.com  
numberOfChildren: 0  
- id: b32fc309-1e42-4769-81be-dfda6a249b6f  
createdOn: 2020-08-06T20:59:52.19Z  
modifiedOn: 2020-08-06T20:59:52.19Z  
suspended: false  
name: Monsters Incorporated  
description: Things that go bump in the night.  
url: https://cisco.com  
numberOfChildren: 0  
- id: 4cc15964-5add-4446-ae3a-6bb4bf46c74d  
createdOn: 2020-08-04T21:28:03.665Z  
modifiedOn: 2020-08-04T21:28:03.665Z  
suspended: false  
name: Alta

#### Motors

description: The future of fast.  
url: https://cisco.com  
numberOfChildren: 0  
schema:  
\$ref: '#/components/schemas/TenantsPage'  
description: OK  
"400":  
content:  
application/json:

```
    schema:
      $ref: '#/components/schemas/Error'
  description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthorized
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Internal Server Error
summary: Returns a page of tenants.
tags:
  - Tenants
post:
  operationId: createTenant
  requestBody:
    content:
      application/json:
        example:
          name: Acme Company
          description: An anvil for every roadrunner.
          url: https://cisco.com
        schema:
          $ref: '#/components/schemas/TenantCreate'
    required: true
  responses:
    "201":
      content:
        application/json:
          example:
            id: b980988a-e418-494e-98d6-6cf2b80c9e73
            createdOn: 2020-08-06T21:43:17.941Z
            modifiedOn: 2020-08-06T21:43:17.941Z
            name: Acme Company
            description: An anvil for every roadrunner.
            url: https://cisco.com
          schema:
```

\$ref: '#/components/schemas/Tenant'  
 description: Created  
 "400":  
 content:  
 application/json:  
 schema:  
 \$ref: '#/components/schemas/Error'  
 description: Bad Request  
 "401":  
 content:  
 application/json:  
 schema:  
 \$ref: '#/components/schemas/Error'  
 description: Unauthenticated  
 "403":  
 content:  
 application/json:  
 schema:  
 \$ref: '#/components/schemas/Error'  
 description: Unauthorized  
 "500":  
 content:  
 application/json:  
 schema:  
 \$ref: '#/components/schemas/Error'  
 description: Internal Server Error  
 summary: Creates a new tenant.  
 tags:  
 - Tenants  
 /idm/api/v8/tenants/list:  
 get:  
 operationId: getTenantsList  
 parameters:  
 - explode: true  
 in: query  
 name: ids  
 required: true  
 schema:  
 items:  
 format: uuid  
 type: string  
 type: array  
 style: form  
 - explode: true  
 in: query  
 name: showImage  
 required: false  
 schema:



default: false  
type: boolean  
style: form  
responses:  
"200":  
content:  
application/json:  
example:  
- id: ea7e39f2-863a-41b8-a6eb-6d730bc200b0  
createdOn: 2020-08-05T21:29:46.782Z  
modifiedOn: 2020-08-05T21:29:46.782Z  
suspended: false  
name: Acme Company  
description: An anvil for every roadrunner.  
url: https://cisco.com  
numberOfChildren: 0  
- id: b32fc309-1e42-4769-81be-dfda6a249b6f  
createdOn: 2020-08-06T20:59:52.19Z  
modifiedOn: 2020-08-06T20:59:52.19Z  
suspended: false  
name: Monsters Incorporated  
description: Things that go bump in the night.  
url: https://cisco.com  
numberOfChildren: 0  
- id: 4cc15964-5add-4446-ae3a-6bb4bf46c74d  
createdOn: 2020-08-04T21:28:03.665Z  
modifiedOn: 2020-08-04T21:28:03.665Z  
suspended: false  
name: Alta Motors  
description: The future of fast.  
url: https://cisco.com  
numberOfChildren: 0  
schema:  
items:  
\$ref: '#/components/schemas/Tenant'  
type: array  
description: OK  
"400":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Bad Request  
"401":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'

```

description: Unauthenticated
"403":
content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Unauthorized
"500":

content:
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Returns a list of tenants.
tags:
- Tenants
/idm/api/v8/tenants/{id}:
delete:
  operationId: deleteTenant
  parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      format: uuid
      type: string
      style: simple
  responses:
    "204":
      description: No Content
    "400":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
      description: Bad Request
    "401":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
      description: Unauthenticated
    "403":
      content:
        application/json:
          schema:

```

```
$ref: '#/components/schemas/Error'
  description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Not Found
"409":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Conflict
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Internal Server Error
summary: Deletes a tenant by id.
tags:
- Tenants
get:
  operationId: getTenant
  parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      format: uuid
      type: string
      style: simple
  responses:
    "200":
      content:
        application/json:
          example:

id: 4cc15964-5add-4446-ae3a-6bb4bf46c74d
  createdOn: 2020-08-04T21:28:03.665Z
  modifiedOn: 2020-08-04T21:28:03.665Z
  suspended: false
  name: Alta Motors
  description: The future of fast.
  url: https://cisco.com
```

numberOfChildren: 0  
    schema:  
      \$ref: '#/components/schemas/Tenant'  
description: OK  
"400":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Bad Request  
"401":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Unauthenticated  
"403":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Unauthorized  
"404":  
content:  
  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Not Found  
"500":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Internal Server Error  
summary: Returns a tenant by id.  
tags:  
- Tenants  
put:  
operationId: updateTenant  
parameters:  
- explode: false  
  in: path  
  name: id  
  required: true  
  schema:  
    format: uuid  
    type: string

```
style: simple
requestBody:
  content:
    application/json:
      example:
        name: Acme Company
        description: We sell rocket powered rollerskates.
        url: https://cisco.com
        schema:
          $ref: '#/components/schemas/TenantUpdate'
      required: true
  responses:
    "200":
      content:
        application/json:
          example:
            id: 4cc15964-5add-4446-ae3a-6bb4bf46c74d
            createdOn: 2020-08-04T21:28:03.665Z
            modifiedOn: 2020-08-04T21:28:03.665Z
            suspended: false
            name: Acme Company
            description: We sell rocket powered rollerskates.
            url: https://cisco.com
            numberOfChildren: 0
            schema:
              $ref: '#/components/schemas/Tenant'
          description: OK
    "400":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
          description: Bad Request
    "401":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
          description: Unauthenticated
    "403":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
          description:
Unauthorized
    "404":
      content:
```

```

    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Not Found
    "500":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
          description: Internal Server Error
      summary: Updates a tenant by id.
      tags:
        - Tenants
/idm/api/v8/users:
  get:
    operationId: getUsersPage
    parameters:
      - explode: true
        in: query
        name: tenantId
        required: false
        schema:
          format: uuid
          type: string
          style: form
      - explode: true
        in: query
        name: deleted
        required: false
        schema:
          type: boolean
          style: form
      - explode: true
        in: query
        name: page
        required: true
        schema:
          example: 0
          format: int32
          minimum: 0

    type: integer
    style: form
  - explode: true
    in: query
    name: pageSize
    required: true
    schema:

```

example: 10  
format: int32  
maximum: 1000  
minimum: 1  
type: integer  
style: form  
responses:  
"200":  
content:  
application/json:  
example:  
page: 0  
pageSize: 3  
totalItems: 47  
hasNext: false  
hasPrevious: false  
contents:  
- id: 2415ed27-5d23-4888-8757-a33acad12eed  
status: "true"  
deleted: "false"  
username: TBaker  
firstName: Tom  
lastName: Baker  
email: noreply@cisco.com  
roleIds:  
- c08b33c0-d5d5-11ea-b88a-a7053c652ef4  
tenantIds:  
- 11af2b16-90ec-4fef-b8a4-2e57945fe0a2  
  
passwordPolicyName: ppolicy\_default  
- id: cff95696-1e3d-42f8-9a1d-9d219f08b944  
status: "true"  
deleted: "false"  
username: JPertwee  
firstName: John  
lastName: Pertwee  
email: noreply@cisco.com  
roleIds:  
- c08b33c0-d5d5-11ea-b88a-a7053c652ef4  
tenantIds:  
- ec56632e-92bc-4d30-b626-f9eee37ee3e0  
passwordPolicyName: ppolicy\_default  
- id: 9349f90e-b5f8-4c1a-b302-3fda5182123e  
status: "true"  
deleted: "false"  
username: PDavidson  
firstName: Peter  
lastName: Davidson

email: noreply@cisco.com  
roleIds:  
- c08b33c0-d5d5-11ea-b88a-a7053c652ef4  
tenantIds:  
- 4cc13c9c-61be-4dd1-b50b-bbcd5f40a3c4  
passwordPolicyName: ppolicy\_default  
schema:  
\$ref: '#/components/schemas/UsersPage'  
description: OK  
"400":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Bad Request  
"401":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Unauthenticated  
"403":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Unauthorized  
"500":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Internal Server Error  
summary: Returns a page of users.  
tags:  
- Users  
post:  
operationId: createUser  
requestBody:  
content:  
application/json:  
example:  
firstName: Tom  
lastName: Baker  
email: noreply@cisco.com  
roleIds:  
- c0895f00-d5d5-11ea-b88a-a7053c652ef4  
tenantIds:



- 18992931-6ced-4133-9101-da6e4b83a5df  
passwordPolicyName: ppolicy\_default  
username: TBaker  
password: Password@1  
schema:  
  \$ref: '#/components/schemas/UserCreate'  
required: true  
responses:  
  "201":  
    content:  
      application/json:  
        example:  
          id: b6c6e42a-d930-4e3b-ac28-2a337ec570ae  
          status: "true"  
          deleted: "false"  
          username: TBaker  
          firstName: Tom  
          lastName: Baker  
          email: noreply@cisco.com  
          roleIds:  
          - c0895f00-d5d5-11ea-b88a-a7053c652ef4  
          tenantIds:

- 18992931-6ced-4133-9101-da6e4b83a5df  
  passwordPolicyName: ppolicy\_default  
  schema:  
    \$ref: '#/components/schemas/User'  
  description: Created  
"400":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
  description: Bad Request  
"401":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
  description: Unauthenticated  
"403":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
  description: Unauthorized  
"500":  
  content:

```
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
    description: Internal Server Error
  summary: Creates a new user.
  tags:
  - Users
/idm/api/v8/users/{id}:
delete:
  operationId: deleteUser
  parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      format: uuid
      type: string
      style: simple
  responses:
    "204":
      description: No Content
    "400":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
          description: Bad Request
    "401":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
          description: Unauthenticated
    "403":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
          description: Unauthorized
    "404":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
          description: Not Found
    "500":
      content:
```

```

    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
      summary: Deletes a user by id.
      tags:
        - Users
      get:
        operationId: getUser
        parameters:
          - explode: false
            in: path
            name: id
            required: true
            schema:
              format: uuid
              type: string
              style: simple
        responses:
          "200":
            content:
              application/json:
                example:
                  id: 9349f90e-b5f8-4c1a-b302-3fda5182123e
                  status: "true"
                  deleted: "false"
                  username: PDavidson
                  firstName: Peter
                  lastName: Davidson
                  email: noreply@cisco.com
                  roleIds:
                    - c08b33c0-d5d5-11ea-b88a-a7053c652ef4
                  tenantIds:
                    - 4cc13c9c-61be-4dd1-b50b-bbcd5f40a3c4
                  passwordPolicyName:
                    ppolicy_default
                schema:
                  $ref: '#/components/schemas/User'
              description: OK
          "400":
            content:
              application/json:
                schema:
                  $ref: '#/components/schemas/Error'
              description: Bad Request
          "401":
            content:
              application/json:

```

```
    schema:
      $ref: '#/components/schemas/Error'
  description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
summary:
Returns an existing user.
tags:
- Users
put:
  operationId: updateUser
  parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      format: uuid
      type: string
      style: simple
  requestBody:
    content:
      application/json:
        example:
          firstName: Christopher
          lastName: Eccleston
          email: noreply@cisco.com
          roleIds:
            - c0895f00-d5d5-11ea-b88a-a7053c652ef4
          tenantIds:
            - 39ed2f7a-baf9-48b0-ad96-7f7828dc8b38
          passwordPolicyName: ppolicy_default
```

```
    schema:
      $ref: '#/components/schemas/UserUpdate'
  required: true
  responses:
    "200":
      content:
        application/json:
          example:
            id: 271eaf78-b805-492a-8afb-a53183912728
            status: "true"
            deleted: "false"

            username: CEccleston
            firstName: Christopher
            lastName: Eccleston
            email: noreply@cisco.com
            roleIds:
              - c0895f00-d5d5-11ea-b88a-a7053c652ef4
            tenantIds:
              - 39ed2f7a-baf9-48b0-ad96-7f7828dc8b38
            passwordPolicyName: ppolicy_default
            schema:
              $ref: '#/components/schemas/User'
      description: OK
    "400":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
      description: Bad Request
    "401":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
      description: Unauthenticated
    "403":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
      description: Unauthorized
    "404":

      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
```

```
description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
    summary: Updates an existing user.
  tags:
    - Users
/idm/api/v8/users/current:
  get:
    operationId: getCurrentUser
  responses:
    "200":
      content:
        application/json:
          example:
            id: 271eaf78-b805-492a-8afb-a53183912728
            status: "true"
            deleted: "false"
            username: JWhittaker
            firstName: Jodie
            lastName: Whittaker
            email: noreply@cisco.com
            roleIds:
              - c0895f00-d5d5-11ea-b88a-a7053c652ef4
            tenantIds:
              - 39ed2f7a-baf9-48b0-ad96-7f7828dc8b38
            passwordPolicyName: ppolicy_default
          schema:
            $ref: '#/components/schemas/User'
          description: OK
    "401":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
          description: Unauthenticated
    "403":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
          description: Unauthorized
    "500":
      content:
        application/json:
```

schema:  
\$ref: '#/components/schemas/Error'  
description: Internal Server Error  
summary: Returns the current user.  
tags:  
- Users

/idm/api/v8/users/updatepassword:  
put:  
operationId: updateUserPassword  
requestBody:  
content:  
application/json:  
example:  
username: JWhittaker  
oldPassword: Password@1  
  
newPassword: Password@2  
schema:  
\$ref: '#/components/schemas/UpdatePassword'  
required: true

responses:  
"204":  
description: No Content  
"400":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Bad Request  
"401":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Unauthenticated  
"403":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Unauthorized  
"500":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Internal Server Error  
summary: Update a user password.

```

tags:
- Users
/workflow/api/v8/workflows:
post:
operationId: importWorkflow
parameters:
- explode: true
in: query
name: tenantId
required: false
schema:
items:
format: uuid
type: string
type: array
style: form
- explode: true
in: query
name: global
required: false
schema:
type: boolean
style: form
requestBody:
content:
application/json:
example:
workflow:
unique_name: definition_workflow_1flwhkwsayquzQyyfgz6tdRoyK2
name: Health Check Atomic
title: Health Check Atomic
type: generic.workflow
base_type: workflow
variables:
- schema_id: 1flwhm42MFVKT16QCVpnzTV3NDL
properties:
value: ""
scope: input
name: service_name

type: datatype.string
unique_name: variable_workflow_1flwhkauAJQe4uzBvUDvCBdY2HM
object_type: variable_workflow
properties:
atomic:
is_atomic: false
delete_workflow_instance: false
display_name: Health Check Atomic

```



```

favorite: false
target:
  target_type: web-service.endpoint
  target_id: definition_target_1flwhpdkMV95YN7uSm2ygMYsVe2
  execute_on_workflow_target: true
object_type: definition_workflow
actions:
- unique_name: definition_activity_1flwhq819QYFkMjAfPWDcg4zliI
  name: HTTP Request
  title: HTTP Request
  type: web-service.http_request
  base_type: activity
  properties:
    accept: application/json
    action_timeout:
180
    allow_auto_redirect: true
    content_type: application/json
    continue_on_error_status_code: false
    continue_on_failure: false
    custom_headers:
      - name: Content-type
        value: application/vnd.spring-boot.actuator.v1+json
    display_name: HTTP Request
    method: GET
    relative_url:
/$workflow.definition_workflow_1flwhkwsayquzQyyfgz6tdRoyK2.input.variable_workflow_1flwhkauAJQe4uzBv
UDvCBdY2HM$/admin/health
    runtime_user:
      override_target_runtime_user: false
      target_default: true
    target:
      override_workflow_target: false
      use_workflow_target: true
    object_type: definition_activity
targets:
definition_target_1flwhpdkMV95YN7uSm2ygMYsVe2:
  unique_name: definition_target_1flwhpdkMV95YN7uSm2ygMYsVe2
  name: Router Service
  title: Router Service
  type: web-service.endpoint
  base_type: target
  object_type: definition_target
  properties:
    description: Router Service
    disable_certificate_validation: true
    display_name: Router Service
    host: dev-plt-aio1.lab.ciscomsx.com

```

```
    no_runtime_user: true
    port: -1
    protocol: https
  schema:
    additionalProperties:
      type: object
      type: object
    required: true
  responses:
    "201":
      content:
        application/json:
          example:
            id: 01HTTXYUA72EI3V0UsjQI3ik4QfyNTB2cvM
            tenantIds:
              - c1c7ac2f-9435-41b8-a76e-b23a14c761df
            uniqueName: definition_workflow_1flwhkwsayquzQyyfgz6tdRoyK2
            createdBy: 46dcc7f6-12f1-4c72-a44a-e7964dd8a43e
            createdOn: 2020-08-07 13:15:10+0000
            modifiedBy: 46dcc7f6-12f1-4c72-a44a-e7964dd8a43e
            modifiedOn: 2020-08-07 13:15:10+0000
          schema:
            $ref: '#/components/schemas/WorkflowMapping'
        description: Created
    "400":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
        description: Bad Request
    "401":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
        description: Unauthenticated
    "403":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
        description: Unauthorized
    "500":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
```

description: Internal Server Error  
summary: Imports a workflow.  
tags:  
- Workflows  
/workflow/api/v8/workflows/list:  
get:  
operationId: getWorkflowsList  
parameters:  
- explode: true  
in: query  
name: tenantId  
required: false  
schema:  
format: uuid  
type: string  
style: form  
- explode: true  
in: query  
name: atomic  
required: false  
schema:  
default: false  
type: boolean  
style: form  
responses:  
"200":  
content:  
application/json:  
example:  
- id: 01HTTZQ6KG8BQ2tvgrxwB2O1NEQ5pTvXjDJ  
name: Health Check Atomic  
type: generic.workflow  
properties:  
atomic:  
is\_atomic: false  
delete\_workflow\_instance:  
false  
display\_name: Health Check Atomic  
favorite: false  
target:  
execute\_on\_workflow\_target: true  
target\_id: 01HTTZQI11KK03IHnhzTPwT6MuUfHywECeW  
target\_type: 01HQR507N9OPR0y96F1u2i6rdLwOPvMc7Ub  
valid: true  
owner: aoadmin  
categories:  
- 01HQR5WWLT5ZZ6VMtGUNGjscsbZOE3psRVR  
metadata:

```
git_info:
  target_id: ""
  commit_hash: ""
status:
  state: import_completed
schema_id: 01HQR4UAFGD6B74Rdv2X7VPk4HiiI559TOg
unique_name: definition_workflow_1flwzKmCj9692j0FZRigZxne0fF
base_type: workflow
workflow_valid: false
created_on: 2020-08-07T13:17:28Z
created_by: aoadmin
updated_on: 2020-08-07T13:17:30Z
updated_by: system
- id: 01HTTZRH15EAQ5PJbiIXaIFmAUySyzw5hUR
  name: Health Check Atomic
  type: generic.workflow
  properties:
    atomic:
      is_atomic: false
    delete_workflow_instance: false
    display_name: Health Check Atomic
    favorite: false
    target:
      execute_on_workflow_target: true
      target_id: 01HTTZRR8X3C35c2F9PUF1OBoSVcMDpT86x
      target_type: 01HQR507N9OPR0y96F1u2i6rdLwOPvMc7Ub
  valid: true
  owner: aoadmin
  categories:
  - 01HQR5WWLT5ZZ6VMtGUNGjscsbZOE3psRVR
  metadata:
    git_info:
      target_id: ""
      commit_hash: ""
  status:
    state: import_completed
  schema_id: 01HQR4UAFGD6B74Rdv2X7VPk4HiiI559TOg
  unique_name: definition_workflow_1flwzgjQExHVTiT1n9p9to2LsEP
  base_type: workflow
  workflow_valid: false
  created_on: 2020-08-07T13:17:30Z
  created_by: aoadmin
  updated_on: 2020-08-07T13:17:32Z
  updated_by: system
  schema:
    items:
      $ref: '#/components/schemas/Workflow'
  type: array
```

```

description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
summary: Returns a list of workflows.
tags:
- Workflows
/workflow/api/v8/workflows/{id}:
  delete:
    operationId: deleteWorkflow
    parameters:
    - explode: false
      in: path
      name: id
      required: true
      schema:
        type: string
      style: simple
    responses:
      "204":
        description: No Content
      "400":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'
          description: Bad Request

```

"401":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Unauthenticated

"403":  
content:  
  application/json:

schema:  
  \$ref: '#/components/schemas/Error'  
description: Unauthorized

"404":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Not Found

"500":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Internal Server Error

summary: Delete a workflow.

tags:

- Workflows

get:

operationId: getWorkflow

parameters:

- explode: false

in: path

name: id

required: true

schema:

  type: string

style: simple

responses:

"200":

content:

  application/json:

  example:

    id: 01HTU0GSER5I82zXr2yeLADwvAW8tUbTF6F

    name: Health Check Atomic

    title: Health Check Atomic

    type: generic.workflow

properties:  
 atomic:  
 is\_atomic: false  
 delete\_workflow\_instance: false  
 display\_name: Health Check Atomic  
 favorite: false  
 target:  
 execute\_on\_workflow\_target: true  
 target\_id: 01HTU0H426RSC17R6ryJsiaekVTZOBgQPT  
 target\_type: 01HQR507N9OPR0y96F1u2i6rdLwOPvMc7Ub  
 valid: true  
 owner: aoadmin  
 categories:  
 - 01HQR5WWLT5ZZ6VMtGUNGjscsbZOE3psRVR  
 metadata:  
 git\_info:  
 target\_id: ""  
 commit\_hash: ""  
 status:  
 state: import\_completed  
 permissions:  
 - manage  
 - run  
 variables:  
 - id: 01HTU0GT1SE035ThRGKqPnrNX7hteloFasr  
 properties:  
 value: ""

scope: input  
 name: service\_name  
 type: datatype.string  
 is\_required: false  
 unique\_name: variable\_workflow\_1flx6VoaQUDEbTsCa8sPZpYiumZ  
 created\_by: aoadmin  
 created\_on: 2020-08-07T13:18:25Z  
 updated\_by: aoadmin  
 updated\_on: 2020-08-07T13:18:27Z  
 schema\_id: 01HQR50TZJK3M3d09kDOqLnYSywrwovUhAW  
 object\_type: variable\_workflow  
 actions:  
 - id: 01HTU0HMMQ1LL1U6HB1qddmdfZFP2UEdHoC  
 name: HTTP Request  
 title: HTTP Request  
 type: web-service.http\_request  
 status:  
 state: created  
 base\_type: activity  
 schema\_id: 01HQR4UAFGD6B74Rdv2X7VPk4HiiI559TOg

unique\_name: definition\_workflow\_1flx6VX6P91ZUhHJmH2IDqAbr2m  
base\_type: workflow

workflow\_valid: false  
created\_on: 2020-08-07T13:18:26Z  
created\_by: aoadmin  
updated\_on: 2020-08-07T13:18:27Z  
updated\_by: system  
schema:  
\$ref: '#/components/schemas/Workflow'

description: OK

"400":

content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'

description: Bad Request

"401":

content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'

description: Unauthenticated

"403":

content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'

description: Unauthorized

"404":

content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'

description: Not Found

"500":

content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'

description: Internal Server Error

summary: Returns a workflow.

tags:

- Workflows

put:

operationId: updateWorkflow

parameters:



```
- explode: false
  in: path
  name: id
  required: true
  schema:
    type: string
  style: simple
- explode: true
  in: query
  name: tenantId
  required: false
  schema:
    items:
      format: uuid
      type: string
    type: array
  style: form
- explode: true
  in: query
  name: global
  required: false
  schema:
    type: boolean
  style: form
requestBody:
  content:
    application/json:
      schema:
        additionalProperties:
          type: object
        type: object
      required: true

responses:
  "200":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/WorkflowMapping'
        description: OK
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Bad Request
  "401":
    content:
```

```

    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthorized
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Internal Server Error
summary: Updates a workflow.
tags:
- Workflows
/workflow/api/v8/workflows/{id}/export:

get:
  operationId: exportWorkflow
  parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      type: string
      style: simple
  responses:
    "200":
      content:
        application/json:
          example:
            workflow:
              unique_name: definition_workflow_1flxysOQP8K57CCL1jR7JIBgdoi
              name: Health Check Atomic
              title: Health Check Atomic
              type: generic.workflow
              base_type: workflow
              variables:
                - schema_id: datatype.string
              properties:
                value: ""
                scope: input
                name: service_name

```

```

    type: datatype.string
    is_required: false
    unique_name: variable_workflow_1flxyrRQ3Pf1Z55c7CAMqmfDLLP
    object_type: variable_workflow
    properties:
      atomic:
        is_atomic: false
      delete_workflow_instance: false
      display_name: Health Check Atomic
      favorite: false
      target:
        target_type: web-service.endpoint
        target_id: definition_target_1flxytXPvWWHm2lP8toyccnGNFh
        execute_on_workflow_target: true
    object_type: definition_workflow
    actions:
      - unique_name: definition_activity_1flxytuQqBqqHFtXwfgC5qrFvIF
        name: HTTP Request
        title: HTTP Request
        type: web-service.http_request
        base_type: activity
        properties:
          accept: application/json
          action_timeout: 180
          allow_auto_redirect: true
          content_type: application/json
          continue_on_error_status_code: false
          continue_on_failure: false
          custom_headers:
            - name: Content-type
              value: application/vnd.spring-boot.actuator.v1+json
          display_name: HTTP Request
          method: GET
          relative_url:
/$workflow.definition_workflow_1flxysOQP8K57CCL1jR7JIBgdoi.input.variable_workflow_1flxyrRQ3Pf1Z55c7
CAMqmfDLLP$/admin/health
        runtime_user:
          override_target_runtime_user: false
          target_default: true
          skip_execution: false
          target:
            override_workflow_target: false
            use_workflow_target: true
        object_type: definition_activity
    categories:
      - category_1BMfMXSnJMyt5lhqi7rWJr5N8cf

```

targets:

definition\_target\_1flxytXPvWWHm2IP8toyccnGNFh:  
unique\_name: definition\_target\_1flxytXPvWWHm2IP8toyccnGNFh  
name: Router Service  
title: Router Service  
type: web-service.endpoint  
base\_type: target  
object\_type: definition\_target  
properties:  
description: Router Service  
disable\_certificate\_validation: true  
display\_name: Router Service  
host: dev-plt-aio1.lab.ciscomsx.com  
no\_runtime\_user: true  
port: -1  
protocol: https

schema:

type: string

description: OK

"400":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Bad Request

"401":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Unauthenticated

"403":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Unauthorized

"404":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Not Found

"500":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

```
description: Internal Server Error
summary: Exports a workflow.
tags:
- Workflows
/workflow/api/v8/workflows/{id}/start:
post:
operationId: startWorkflow
parameters:
- explode: false
in: path
name: id
required: true
schema:
type: string
style: simple

- explode: true
in: query
name: sync
required: false
schema:
type: boolean
style: form
requestBody:
content:
application/json:
example:
input_variables:
- id: 01HTU6QBKWSWC7cJcKEAKXek3cjLJoZGYLK
schema_id: 01HQR50TZJK3M3d09kDOqLnYSywRwovUhAW
properties:
value: ""
scope: input
name: service_name
type: datatype.string
is_required: false
created_on: 2020-08-07T13:26:36Z
created_by: aoadmin
updated_on: 2020-08-07T13:26:38Z
updated_by: aoadmin
unique_name: variable_workflow_1fly6IL9DWN9dCwPA6W713ef62M
schema:
$ref: '#/components/schemas/WorkflowStartConfig'
required: true
responses:
"200":
content:
application/json:
```

example:  
- id: 01HTU6T8HR4BR2l7fjYz3ByMqmFGN4Hse9P  
type: generic.workflow  
status:  
  state: created  
version: 1.0.0  
definition\_id: 01HTU6QAYFTCA3epU8esiR4c2anJiZEjaVu  
schema\_id: 01HQR4UAFGD6B74Rdv2X7VPk4HiiI559TOg  
base\_type: workflow  
created\_by: aoadmin  
created\_on: 2020-08-07T13:26:43Z  
schema:  
  items:  
    \$ref: '#/components/schemas/StartWorkflowResponse'  
  type: array  
description: OK  
"400":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
    description: Bad Request  
"401":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
    description: Unauthenticated  
"403":  
  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
  description: Unauthorized  
"404":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
  description: Not Found  
"500":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
  description: Internal Server Error  
summary: Starts a workflow.

tags:

- Workflows

/workflow/api/v8/workflows/{id}/startconfig:

get:

operationId: getWorkflowStartConfig

parameters:

- explode: false
- in: path
- name: id
- required: true
- schema:
  - type: string
  - style: simple

responses:

"200":

content:

application/json:

example:

input\_variables:

- id: 01HTU9YNVH2UU7MfSA3LV7IwrhUSmShOCmm

properties:

- value: ""
- scope: input
- name: service\_name
- type: datatype.string
- is\_required: false
- unique\_name: variable\_workflow\_1f lyc1Zeu5YyWbMXGcxEULkCPN0
- created\_by: aoadmin
- created\_on: 2020-08-07T13:30:50Z
- updated\_by: aoadmin
- updated\_on: 2020-08-07T13:30:51Z
- schema\_id: 01HQR50TZJK3M3d09kDOqLnYSywRwovUhAW

schema:

\$ref: '#/components/schemas/WorkflowStartConfig'

description: OK

"400":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Bad Request

"401":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Unauthenticated

```

"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
  summary: Returns a workflow start config.
  tags:
    - Workflows
/workflow/api/v8/workflows/{id}/validate:
  post:
    operationId: validateWorkflow
    parameters:
      - explode: false
        in: path
        name: id
        required: true
        schema:
          type: string
          style: simple
    responses:
      "200":
        content:
          application/json:
            example:
              total_actions:
                2
              total_valid: 2
              workflow_valid: true
            schema:
              $ref: '#/components/schemas/ValidateWorkflowResponse'
          description: OK
      "400":
        content:
          application/json:
            schema:

```



\$ref: '#/components/schemas/Error'  
description: Bad Request  
"401":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Unauthenticated  
"403":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Unauthorized  
"404":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Not Found  
"500":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Internal Server Error  
summary: Validates a workflow.  
tags:  
- Workflows  
/workflow/api/v8/categories:  
post:  
  operationId: createWorkflowCategory  
  parameters:  
  - explode: true  
  in: query  
  name: tenantId  
  required: false  
  schema:  
    format: uuid  
    type: string  
  style: form  
  requestBody:  
  content:  
  application/json:  
    example:  
      name: Category One  
      title: Category One  
      description: A description of category one.

```

    schema_id: 01HQR4T0U6YBE7USwHQiUhXogAACos2iac6
  schema:
    $ref: '#/components/schemas/WorkflowCategoryCreate'
  required: true
  responses:
    "201":
      content:
        application/json:
          example:
            id: 01HTUHZLGD1G44uidVhVUuellFkdpoN2aP3
            name: Category One
            title: Category
  One
    type: basic.category
    description: A description of category one.
    owner: aoadmin
    schema_id: 01HQR4T0U6YBE7USwHQiUhXogAACos2iac6
    base_type: category
    category_type: custom
    created_on: 2020-08-07T13:41:19Z
    created_by: aoadmin
    updated_on: 2020-08-07T13:41:19Z
    updated_by: aoadmin
    unique_name: category_01HTUHZLWOMFM4mm9sgaP3yGST4UDPXWMat
  schema:
    $ref: '#/components/schemas/WorkflowCategory'
  description: Created
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Unauthorized
"500":
  content:

```

```

    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
      summary: Creates a new workflow category.
      tags:
        - Workflow Categories
/workflow/api/v8/categories/list:
  get:
    operationId: getWorkflowCategoriesList
    parameters:
      - explode: true
        in: query
        name: tenantId
        required: false
        schema:
          format: uuid
          type: string
          style: form
    responses:
      "200":
        content:
          application/json:
            example:
              - id: 01HTUOXAQLT3B4ddnGJ3JG1Yy3eGEu8kh99
                name: Category One
                title: Category One
                type: basic.category
                description: A
        description of category one.
          owner: aoadmin
          schema_id: 01HQR4T0U6YBE7USwHQiUhXogAACos2iac6
          base_type: category
          category_type: custom
          created_on: 2020-08-07T13:50:22Z
          created_by: aoadmin
          updated_on: 2020-08-07T13:50:22Z
          updated_by: aoadmin
          unique_name: category_01HTUOXB3RHY61AvZ3WYHp2FJlcn64d3aR1
        schema:
          items:
            $ref: '#/components/schemas/WorkflowCategory'
          type: array
        description: OK
      "400":
        content:
          application/json:
            schema:

```

```

    $ref: '#/components/schemas/Error'
  description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Unauthorized
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Internal Server Error
  summary: Returns a list of workflow categories.
  tags:
    - Workflow Categories
/workflow/api/v8/categories/{id}:
  delete:
    operationId: deleteWorkflowCategory
    parameters:
      - explode: false
        in: path
        name: id
        required: true
        schema:
          type: string
          style: simple
    responses:
      "204":
        description: No Content
      "400":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'
        description: Bad Request
      "401":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'

```

```

description: Unauthenticated
"403":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Unauthorized
"404":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Not Found
"500":
content:
application/json:
schema:
  $ref: '#/components/schemas/Error'
description: Internal Server Error
summary: Deletes a workflow category.
tags:
- Workflow Categories
get:
operationId: getWorkflowCategory
parameters:
- explode: false
in: path
name: id
required: true
schema:
type: string
style: simple
responses:
"200":
content:
application/json:
example:

id: 01HTUQ4UK2ON01Pxm88QXs1Q65X3bb22I0A
name: Category One
title: Category One
type: basic.category
description: A description of category one.
owner: aoadmin
schema_id: 01HQR4T0U6YBE7USwHQiUhXogAACos2iac6
base_type: category
category_type: custom
created_on: 2020-08-07T13:51:57Z

```

created\_by: aoadmin  
updated\_on: 2020-08-07T13:51:57Z  
updated\_by: aoadmin  
unique\_name: category\_01HTUQ4UY5RQL38MHgO1rEb2nI57kYwMOio  
schema:  
  \$ref: '#/components/schemas/WorkflowCategory'  
description: OK  
"400":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
    description: Bad Request  
"401":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
    description: Unauthenticated  
"403":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
    description: Unauthorized  
"404":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
    description: Not Found  
"500":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
    description: Internal Server Error  
summary: Returns a workflow category.  
tags:  
- Workflow Categories  
put:  
  operationId: updateWorkflowCategory  
  parameters:  
- explode: false  
  in: path  
  name: id  
  required: true

```

schema:
  type: string
  style: simple
requestBody:
  content:
    application/json:
      example:
        name:
New Category Name
        title: New Category Title
        description: A much better description than before.
        schema_id: 01HQR4T0U6YBE7USwHQiUhXogAACos2iac6
        schema:
          $ref: '#/components/schemas/WorkflowCategoryUpdate'
        required: true
responses:
  "200":
    content:
      application/json:
        example:
          id: 01HTUQXABYWQ00Pe1CG88H4AU5vNgVWrOzz
          name: New Category Name
          title: New Category Title
          type: basic.category
          description: A much better description than before.
          owner: aoadmin
          schema_id: 01HQR4T0U6YBE7USwHQiUhXogAACos2iac6
          base_type: category
          category_type: custom
          created_on: 2020-08-07T13:52:59Z
          created_by: aoadmin
          updated_on: 2020-08-07T13:53:01Z
          updated_by: aoadmin
          unique_name:
category_01HTUQXANSV4T7Dj4fqBqjAMsoMkYGVCLFY
  schema:
    $ref: '#/components/schemas/WorkflowCategory'
  description: OK
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Bad Request
  "401":
    content:
      application/json:
        schema:

```

\$ref: '#/components/schemas/Error'  
description: Unauthenticated  
"403":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Unauthorized  
"404":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Not Found  
"500":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'

description: Internal Server Error

summary: Updates a workflow category.

tags:

- Workflow Categories

/workflow/api/v8/events:

post:

operationId: createWorkflowEvent

requestBody:

content:

application/json:

example:

title: Event One

description: This is not the description you are looking for.

target\_id: 01HTUSVW1CT4X66ht5sueGVrOatrKeh8wkK

schema\_id: 01HQR51UJFSML2CKLOFnnYq7YgGQIgzmvHx

properties:

title: Event One

target\_id: 01HTUSVW1CT4X66ht5sueGVrOatrKeh8wkK

topic\_name: TEST\_TOPIC

schema:

\$ref: '#/components/schemas/WorkflowEventCreate'

required: true

responses:

"201":

content:

application/json:

example:

id: 01HTUTXM9WJYO68qlCTXsVTsMvzwBOU3NTm



name: Event One  
title: Event

One

type: kafka.event  
properties:  
  target\_id: 01HTUSVW1CT4X66ht5sueGVrOatrKeh8wkK  
  title: Event One  
  topic\_name: TEST\_TOPIC  
owner: aoadmin  
base\_type: event  
schema\_id: 01HQR51UJFSML2CKLOFnnYq7YgGQIgzmvHx  
created\_on: 2020-08-07T13:56:55Z  
created\_by: aoadmin  
updated\_on: 2020-08-07T13:56:55Z  
updated\_by: aoadmin  
unique\_name: event\_01HTUTXMUZK5K4e9DkbweSjca3gD5vpiKVq  
schema:  
  \$ref: '#/components/schemas/WorkflowEvent'  
description: Created

"400":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Bad Request

"401":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'

description: Unauthenticated

"403":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Unauthorized

"500":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Internal Server Error

summary: Creates a new workflow event.  
tags:  
- Workflow Events

/workflow/api/v8/events/list:

get:

operationId: getWorkflowEventsList

responses:

"200":

content:

application/json:

example:

- id: 01HTUTXM9WJYO68qlCTXsVTsMvzwBOU3NTm

name: Event One

title: Event One

type: kafka.event

properties:

target\_id: 01HTUSVW1CT4X66ht5sueGVrOatrKeh8wkK

title: Event One

topic\_name: TEST\_TOPIC

owner:

aoadmin

base\_type: event

schema\_id: 01HQR51UJFSML2CKLOFnnYq7YgGQIgzmvHx

created\_on: 2020-08-07T13:56:55Z

created\_by: aoadmin

updated\_on: 2020-08-07T13:56:55Z

updated\_by: aoadmin

unique\_name: event\_01HTUTXMUZK5K4e9DkbweSjca3gD5vpiKVq

- id: 01HTV20GBCN0U42AUaJriRfalzhqatVmAsO

name: Event Two

title: Event Two

type: kafka.event

properties:

target\_id: 01HTV201F5UPB7Zvq80qNEcvlj1x0jYjR11

title: Event Two

topic\_name: TEST\_TOPIC

owner: aoadmin

base\_type: event

schema\_id: 01HQR51UJFSML2CKLOFnnYq7YgGQIgzmvHx

created\_on: 2020-08-07T14:07:28Z

created\_by: aoadmin

updated\_on: 2020-08-07T14:07:28Z

updated\_by: aoadmin

unique\_name: event\_01HTV20GWV12S2RMHdzv8v0FQApd0RIsdHJ

- id: 01HTV20MCM3BS6ZkhyC6bdLEc5B8HWe1whS

name: Event Three

title: Event Three

type: kafka.event

properties:

target\_id: 01HTV201F5UPB7Zvq80qNEcvlj1x0jYjR11

title: Event Three

topic\_name: TEST\_TOPIC

owner: aoadmin  
base\_type: event  
schema\_id: 01HQR51UJFSML2CKLOFnnYq7YgGQIgzmvHx  
created\_on: 2020-08-07T14:07:28Z  
created\_by: aoadmin  
updated\_on: 2020-08-07T14:07:28Z  
updated\_by: aoadmin  
unique\_name: event\_01HTV20MVVVRU29seKlnaJIQovPpaKFJLVm  
schema:  
items:  
  \$ref: '#/components/schemas/WorkflowEvent'  
  type: array  
description: OK  
"400":  
content:  
  application/json:  
  schema:

\$ref: '#/components/schemas/Error'  
description: Bad Request  
"401":  
content:  
  application/json:  
  schema:  
    \$ref: '#/components/schemas/Error'  
description: Unauthenticated  
"403":  
content:  
  application/json:  
  schema:  
    \$ref: '#/components/schemas/Error'  
description: Unauthorized  
"500":  
content:  
  application/json:  
  schema:  
    \$ref: '#/components/schemas/Error'  
description: Internal Server Error  
summary: Returns a list of workflow events.  
tags:  
- Workflow Events  
/workflow/api/v8/events/{id}:  
delete:  
  operationId: deleteWorkflowEvent  
  parameters:  
- explode: false  
  in: path  
  name: id

required: true  
schema:  
  type: string  
  style: simple  
responses:  
  "204":  
    description: No Content  
  
  "400":  
    content:  
      application/json:  
        schema:  
          \$ref: '#/components/schemas/Error'  
    description: Bad Request  
  "401":  
    content:  
      application/json:  
        schema:  
          \$ref: '#/components/schemas/Error'  
    description: Unauthenticated  
  "403":  
    content:  
      application/json:  
        schema:  
          \$ref: '#/components/schemas/Error'  
    description: Unauthorized  
  "404":  
    content:  
      application/json:  
        schema:  
          \$ref: '#/components/schemas/Error'  
    description: Not Found  
  "500":  
    content:  
      application/json:  
        schema:  
          \$ref: '#/components/schemas/Error'  
    description: Internal Server Error  
summary: Deletes a workflow event.  
tags:  
- Workflow Events  
get:  
  operationId: getWorkflowEvent  
  parameters:  
  - explode: false  
  in: path  
  name: id  
  required: true

schema:  
  type: string  
  style: simple

responses:

"200":  
  content:  
    application/json:  
      example:  
        id: 01HTV4I8YRWGDG35I3IL4q3ek3kGOLiVSHLL  
        name: Event One  
        title: Event One  
        type: kafka.event  
        properties:  
          target\_id: 01HTV4HQQDNXX37YDZ6gp7n1T1aVHd3WgI5  
          title: Event One  
          topic\_name: TEST\_TOPIC  
        owner: aoadmin  
        base\_type: event  
        schema\_id: 01HQR51UJFSML2CKLOFnnYq7YgGQIgzmvHx  
        created\_on: 2020-08-07T14:10:43Z  
        created\_by: aoadmin  
        updated\_on: 2020-08-07T14:10:43Z  
        updated\_by: aoadmin  
        unique\_name: event\_01HTV4I9L6CBI5ujNxAybYv2G2nz8W1Au7c  
        schema:  
          \$ref: '#/components/schemas/WorkflowEvent'  
        description: OK

"400":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
    description: Bad Request

"401":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
    description: Unauthenticated

"403":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
    description: Unauthorized

"404":  
  content:  
    application/json:

```

    schema:
      $ref: '#/components/schemas/Error'
    description: Not Found
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Internal Server Error
    summary: Returns a workflow event.
    tags:
      - Workflow Events
  put:
    operationId: updateWorkflowEvent
    parameters:
      - explode: false
        in: path
        name: id
        required: true
        schema:
          type: string
          style: simple
    requestBody:
      content:
        application/json:
          example:
            title: New Title
            description: All singing, all dancing event description.
            target_id: 01HTV56F9BGYF7TPAc3p1WaP5ASSxPjvWkO
            schema_id: 01HQR51UJFSML2CKLOFnnYq7YgGQIgzmvHx
            properties:
              title: New Title
              target_id: 01HTV56F9BGYF7TPAc3p1WaP5ASSxPjvWkO
              topic_name: TEST_TOPIC
            schema:
              $ref: '#/components/schemas/WorkflowEventUpdate'
          required: true
    responses:
      "200":
        content:
          application/json:
            example:
              id: 01HTV56VQQZUC4mWipHYh796PL3wOrxtRaD
              name: New Title
              title:
                New Title
            type: kafka.event
            properties:

```

target\_id: 01HTV56F9BGYF7TPAc3p1WaP5ASSxPjvWkO  
title: New Title  
topic\_name: TEST\_TOPIC  
owner: aoadmin  
base\_type: event  
schema\_id: 01HQR51UJFSML2CKLOFnnYq7YgGQIgzmvHx  
created\_on: 2020-08-07T14:11:37Z  
created\_by: aoadmin  
updated\_on: 2020-08-07T14:11:38Z  
updated\_by: aoadmin  
unique\_name: event\_01HTV56WB51FN58TvJUqNktaErVKaADwtN7  
schema:  
  \$ref: '#/components/schemas/WorkflowEvent'  
description: OK  
"400":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
    description: Bad Request  
"401":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
  
    description: Unauthenticated  
"403":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
    description: Unauthorized  
"404":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
    description: Not Found  
"500":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
    description: Internal Server Error  
summary: Updates a workflow event.  
tags:  
- Workflow Events

/workflow/api/v8/workflows/{id}/instances/list:

get:

operationId: getWorkflowInstancesList

parameters:

- explode: false

in: path

name: id

required: true

schema:

type: string

style: simple

- explode: true

in: query

name: dateFrom

required: false

schema:

format: date

type: string

style: form

- explode: true

in: query

name: dateTo

required: false

schema:

format: date

type: string

style: form

- explode: true

in: query

name: page

required: true

schema:

example: 0

format: int32

minimum: 0

type: integer

style: form

- explode: true

in: query

name: pageSize

required: true

schema:

example: 10

format: int32

maximum: 100

minimum: 1

type: integer

style: form



responses:

"200":

content:

application/json:

example:

- id: 01HTVA5WUVLV30XX6289x6F5Uw6i6fHxQ9f

name: Health Check Atomic

version: 1.0.0

type: generic.workflow

properties:

atomic:

is\_atomic: false

delete\_workflow\_instance: false

display\_name: Health Check Atomic

favorite: false

target:

execute\_on\_workflow\_target: true

target\_id: 01HTVA4PZGZ9P4Bt32dTETiQJ7S2qJ0LdYZ

target\_type: 01HQR507N9OPR0y96F1u2i6rdLwOPvMc7Ub

status:

state: failed

owner: aoadmin

definition\_id: 01HTVA4EWNF712PFaDpfGaIWmjvC014C3b5

schema\_id: 01HQR4UAFGD6B74Rdv2X7VPk4HiiI559TOg

base\_type: workflow

started\_on: 2020-08-07T14:18:07Z

ended\_on: 2020-08-07T14:18:07Z

created\_on: 2020-08-07T14:18:06Z

created\_by: aoadmin

updated\_on: 2020-08-07T14:18:07Z

updated\_by: aoadmin

schema:

items:

\$ref: '#/components/schemas/WorkflowInstance'

type: array

description: OK

"400":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Bad Request

"401":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Unauthenticated

```

"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
  summary: Returns a list of workflow instances.
  tags:
    - Workflow Instances
/workflow/api/v8/workflows/instances/{id}:
  delete:
    operationId: deleteWorkflowInstance
    parameters:
      - explode: false
        in: path
        name: id
        required: true
        schema:
          type: string
          style: simple
    responses:
      "200":
        content:
          application/json:
            example: {}
            schema:
              $ref: '#/components/schemas/WorkflowInstanceDeleteResponse'
          description: OK
      "400":
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Error'
          description: Bad Request
      "401":
        content:

```

```
  application/json:
    schema:
      $ref: '#/components/schemas/Error'
  description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
summary: Deletes a workflow instance.
tags:
- Workflow Instances
get:
  operationId: getWorkflowInstance
  parameters:
  - explode: false
    in: path
    name: id
    required: true
    schema:
      type: string
    style: simple
  responses:
    "200":
      content:
        application/json:
          example:
            id: 01HTVFR054LQ51nAr7jwPe8AiM7atRITAkS
            name: Health Check Atomic
            version: 1.0.0
            type: generic.workflow
            properties:

            atomic:
              is_atomic: false
```

delete\_workflow\_instance: false  
display\_name: Health Check Atomic  
favorite: false  
target:  
  execute\_on\_workflow\_target: true  
  target\_id: 01HTVFPQO55C44B5cEs1Pm6RPSH0wfKqQ0w  
  target\_type: 01HQR507N9OPR0y96F1u2i6rdLwOPvMc7Ub  
actions:  
- id: 01HTVFR07JOP33cYLy4zqZB8TiAIoOebkBy  
  name: HTTP Request  
  title: HTTP Request  
  type: web-service.http\_request  
  status:  
    state: failed  
  workflow\_id: 01HTVFR054LQ51nAr7jwPe8AiM7atRITaKs  
  definition\_id: 01HTVFAQ8HCPZD7mxQWMO9aRK4SN8F2zaZ3j  
  base\_type: activity  
variables:  
- id: 01HTVFPGTKONV65tDGJ7ZFNthVlpPmbfD1b  
  properties:  
    value: ""  
  
scope: input  
  name: service\_name  
  type: datatype.string  
  is\_required: false  
  unique\_name: variable\_workflow\_1fm5F8Z51fI98LESfVpRNN0BceN  
  created\_by: aoadmin  
  created\_on: 2020-08-07T14:25:21Z  
  updated\_by: aoadmin  
  updated\_on: 2020-08-07T14:25:22Z  
  schema\_id: 01HQR50TZJK3M3d09kDOqLnYSyWRwovUhAW  
  object\_type: ""  
status:  
  state: failed  
owner: aoadmin  
definition\_id: 01HTVFPFGZY5N7GeJgQQDnmN1e4I2v5uk8  
schema\_id: 01HQR4UAFGD6B74Rdv2X7VPk4HiiI559TOg  
base\_type: workflow  
started\_on: 2020-08-07T14:25:24Z  
ended\_on: 2020-08-07T14:25:25Z  
created\_on: 2020-08-07T14:25:24Z  
created\_by: aoadmin  
updated\_on: 2020-08-07T14:25:25Z

updated\_by: aoadmin  
schema:  
  \$ref: '#/components/schemas/WorkflowInstance'

description: OK  
"400":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Bad Request  
"401":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Unauthenticated  
"403":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Unauthorized  
"404":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Not Found  
"500":  
content:  
application/json:  
schema:  
\$ref: '#/components/schemas/Error'  
description: Internal Server Error

summary: Returns a workflow instance.

tags:

- Workflow Instances

/workflow/api/v8/workflows/instances/{id}/cancel:

post:

operationId: cancelWorkflowInstance

parameters:

- explode: false

in: path

name: id

required: true

schema:

type: string

style: simple

responses:

"200":

content:

```
    application/json:
      schema:
        $ref: '#/components/schemas/WorkflowInstance'
    description: OK
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Unauthorized
  "404":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Not Found
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
        description: Internal Server Error
    summary: Cancels a workflow instance.
    tags:
      - Workflow Instances
/workflow/api/v8/workflows/instances/{id}/actions/{actionId}:
  get:
    operationId: getWorkflowInstanceAction
    parameters:
      - explode: false
      in: path
      name: id
      required: true
      schema:
        type: string
      style: simple
```

```
- explode: false
in: path
name: actionId
required: true
schema:
  type: string
style: simple
responses:
  "200":
    content:
      application/json:
        example:
          id: 01HTVKBEMJ03T6AXYI2enM1fHaqcbc5CTXC
          name: HTTP Request
          title: HTTP Request
          type: web-service.http_request
        properties:
          accept: application/json
          action_timeout: 180
          allow_auto_redirect: true
          content_type: application/json
          continue_on_error_status_code: false
          continue_on_failure: false
          custom_headers:
            - name: Content-type
              value: application/vnd.spring-boot.actuator.v1+json
          disable_certificate_validation: true
          display_name: HTTP Request
          host: dev-plt-aiol.lab.ciscomsx.com
          method: GET
          no_runtime_user: true
          port: -1
          protocol: https
          relative_url: //admin/health
          runtime_user:
            override_target_runtime_user: false
            target_default: true
          skip_execution: false
          target:
            override_workflow_target: false
            use_workflow_target: true
        status:
          state: failed
        output:
          error:
            code: "404"
            message: "action execution errored for type web-service.http_request\
              \ err:code:404 message:<html>\r\n<head><title>404 Not Found</title></head>\r\
```

```
\n<body>\r\n<center><h1>404 Not Found</h1></center>\r\n<hr><center>nginx</center>\r\n\n</body>\r\n</html>\r\n"
```

response:

```
elapsed_time: 0.235917361
end_time: 2020-08-07T14:31:22.97397746Z
start_time: 2020-08-07T14:31:22.738060099Z
succeeded: false
```

```
workflow_id: 01HTVKBEKMJJF3YhZeIIt6O4GkrP9Fyo7gd
definition_id: 01HTVKAN0L9R23bhwYdXqHUeb4KAFAP4IKP
schema_id: 01HQR5TKR3L0262ioJhatOKRw8sjtMfaTpY
adapter_id: 01HQR4XDDJP841AL5bYoKqfH9LDFRIV7ndt
base_type: activity
started_by: aoadmin
started_on: 2020-08-07T14:31:22Z
ended_on: 2020-08-07T14:31:22Z
schema:
  $ref: '#/components/schemas/WorkflowAction'
description: OK
"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Not Found
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
```



description: Internal Server Error  
summary: Returns a workflow instance action.  
tags:  
- Workflow Instances  
/workflow/api/v8/schemas/list:  
get:  
operationId: getWorkflowSchemasList  
parameters:  
- explode: true  
in: query  
name: baseType  
required: true  
schema:  
default: category  
type: string  
style: form  
- explode: true  
in: query  
name: schemaType  
required: false  
schema:  
default: view  
type: string  
style: form  
- explode: true  
in: query  
name: variableType  
required: false  
schema:  
default: false  
type: boolean  
style: form  
responses:  
"200":  
content:  
application/json:  
example:  
- id: 01HQR51GF9PYP4qc0yoinLF7qPwG5RRw5y4  
name: AMQP Event  
title: AMQP Event  
description: AMQP Event  
type: amqp.event  
version: 1.0.0  
invisible: false  
owner: system  
inherits: generic.server\_event  
base\_type: event  
created\_on: 2020-08-03T22:25:21Z

created\_by: system  
updated\_on: 2020-08-03T22:25:21Z  
updated\_by: system  
access\_meta:  
 adapter:  
 id: 01HQR4W5OQF586jo6uMoPzD7jmoKZASTDHc  
 type: adapter.amqp  
 version: 1.0.0  
 targets:  
 - id: 01HQR4XL0F2XR2a2gY4xVFgwyzoVaX39eHm  
 type: amqp.endpoint  
 version: 1.0.0  
- id: 01HQR51LCBPSZ2s8uQvretFwX9giX7kNPET  
 name: Approval Task Event  
 title: Approval Task Event  
 description: Approval Task Event  
 type: approval\_task.event  
 version: 1.0.0  
 invisible: false  
 owner: system  
 inherits: generic.event  
 base\_type: event  
 created\_on: 2020-08-03T22:25:21Z  
 created\_by: system  
 updated\_on: 2020-08-03T22:25:21Z  
 updated\_by: system  
- id: 01HQR51OODY3N2NzytzL14JaOx2DTZwDAcU  
 name: Email Event  
 title: Email Event  
 description: Email Event  
 type: email.event  
 version: 1.0.0  
 invisible: false  
 owner: system  
 inherits: generic.server\_event  
 base\_type: event  
 created\_on: 2020-08-03T22:25:21Z  
 created\_by: system  
 updated\_on: 2020-08-03T22:25:21Z  
 updated\_by: system  
 access\_meta:  
 adapter:  
 id: 01HQR4WI5PA612XK9BYQrKjG0iYP8M7IOyT  
 type: adapter.email  
 version: 1.0.0  
 targets:  
 - id: 01HQR4Z92JPJH53OTRG6YialYEOwS3yuVgN  
 type: email.pop3\_endpoint

```
    version: 1.0.0
  - id: 01HQR4YMF4VX0FTcEvmXQatvnF4UMwtAGC
    type: email.imap_endpoint
    version: 1.0.0
  - id: 01HQR51UJFSML2CKLOFnnYq7YgGQIgzmvHx
    name: Kafka Event
    title: Kafka Event
    description: Kafka Event
    type: kafka.event
    version: 1.0.0
    invisible: false
    owner: system
    inherits: generic.server_event
    base_type: event
    created_on: 2020-08-03T22:25:22Z
    created_by: system
    updated_on: 2020-08-03T22:25:22Z
    updated_by: system
    access_meta:
      adapter:
        id: 01HQR4WU9U9AY1ZDytSm3OHx6vaXyFalWr2
        type: adapter.kafka
        version: 1.0.0
      targets:
        - id: 01HQR4YUO8XZF4QKY5qtM47OyHLoepbm43
          type: kafka.endpoint
          version: 1.0.0
  - id: 01HQR520APZM96G6JkrmZctwy3tMtVfojPy
    name: Webhook Event
    title: Webhook Event
    description: Webhook Event
    type: webhook.event
    version: 1.0.0
    invisible: false
    owner: system
    inherits: generic.event
    base_type: event
    created_on:
2020-08-03T22:25:22Z
    created_by: system
    updated_on: 2020-08-03T22:25:22Z
    updated_by: system
    access_meta: { }
    schema:
      items:
        $ref: '#/components/schemas/WorkflowSchema'
      type: array
    description: OK
```

```

"400":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Bad Request
"401":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthenticated
"403":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
summary: Returns a list of workflow schemas.
tags:
  - Workflow Schemas
/workflow/api/v8/schemas/{id}:
  get:
    operationId: getWorkflowSchema
    parameters:
      - explode: false
        in: path
        name: id
        required: true
        schema:
          type: string
          style: simple
      - explode: true
        in: query
        name: schemaType
        required: false
        schema:
          default: view
          type: string
          style: form
    responses:
      "200":

```

content:

application/json:

example:

view\_schema:

name: Generic Category

title: Generic Category

description: Generic Category

type: basic.category

version: 1.0.0

invisible: false

owner: system

schema\_id: 01HQR4T0U6YBE7USwHQiUhXogAACos2iac6

base\_type: category

created\_on: 2020-08-03T22:25:02Z

created\_by: system

updated\_on: 2020-08-03T22:25:02Z

updated\_by: system

property\_schema:

properties:

description:

component: textarea

maxLength: 1024

minLength: 0

position: 2

section: General

title: Description

type: string

name:

lhv\_invisible: formOnly

maxLength: 64

minLength: 0

section: General

title: Name

type: string

title:

maxLength: 64

minLength: 1

position: 1

section: General

title: Display Name

type: string

required:

- title

view\_config:

section\_order:

- General

schema:

```
    $ref: '#/components/schemas/WorkflowSchemaByTypeResponse'
  description: OK
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Unauthenticated
  "403":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Unauthorized
  "404":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Not Found
  "500":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Internal Server Error
  summary: Returns a workflow schema.
  tags:
  - Workflow Schemas
/workflow/api/v8/targets:
  post:
    operationId: createWorkflowTarget
    requestBody:
      content:
        application/json:
          example:
            name: MSX Kafka
            description: A most excellent description.
            title: Target One
            type: kafka.endpoint
            properties:
```

```
    disable_certificate_validation: false
    display_name: MSX Kafka
    host: kafka.vms.svc.cluster.local
    no_runtime_user: true
    port: 9092
    ssl_enable: false
  schema:
    $ref: '#/components/schemas/WorkflowTargetCreate'
  required: true
responses:
  "201":
    content:
      application/json:
        example:
          id: 01HQR8KEERONC2rTTJbNGCO0k2pTKSCwlAT
          name: MSX Kafka
          type: kafka.endpoint
          properties:
            disable_certificate_validation: false
            display_name: MSX Kafka
            host: kafka.vms.svc.cluster.local
            no_runtime_user: true
            port: 9092
            ssl_enable: false
          owner: aoadmin
          valid: true
          schema_id: 01HQR4YUO8XZF4QKY5qtM47OyHLoepbmx43
          adapter_id: 01HQR4WT4TZ0X3NzZLI7wGkfr7wKsAzPbLq
          base_type: target
          created_on: 2020-08-03T22:29:57Z
          created_by: aoadmin
          updated_on: 2020-08-03T22:29:57Z
          updated_by: aoadmin
          def_access_meta:

    is_internal: false
    unique_name: definition_target_01AN9H4AFTF5C2l6FseuNnivO2II08gZXbN
    schema:
      $ref: '#/components/schemas/WorkflowTarget'
    description: Created
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Bad Request
  "401":
    content:
```

application/json:  
  schema:  
    \$ref: '#/components/schemas/Error'  
description: Unauthenticated  
"403":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
description: Unauthorized  
"500":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
description: Internal Server Error  
summary: Creates a new workflow target.  
tags:  
- Workflow

#### Targets

/workflow/api/v8/targets/list:

get:  
  operationId: getWorkflowTargetsList  
  parameters:  
  - explode: true  
    in: query  
    name: internal  
    required: false  
    schema:  
      type: boolean  
    style: form  
  - explode: true  
    in: query  
    name: type  
    required: false  
    schema:  
      type: string  
    style: form  
  responses:  
  "200":  
    content:  
      application/json:  
        example:  
        - id: 01HQR8KEERONC2rTTJbNGCO0k2pTKSCw1AT  
          name: MSX Kafka  
          type: kafka.endpoint  
        properties:  
          disable\_certificate\_validation: false



display\_name: MSX Kafka  
host: kafka.vms.svc.cluster.local  
no\_runtime\_user: true  
port: 9092  
ssl\_enable: false  
owner: aoadmin  
valid: true  
schema\_id: 01HQR4YUO8XZF4QKY5qtM47OyHLoepbmx43  
adapter\_id: 01HQR4WT4TZ0X3NzZLl7wGkFR7wKsAzPbLq  
base\_type: target  
created\_on: 2020-08-03T22:29:57Z  
created\_by: aoadmin  
updated\_on: 2020-08-03T22:29:57Z  
updated\_by: aoadmin  
def\_access\_meta:  
  is\_internal: false  
unique\_name: definition\_target\_01AN9H4AFTF5C2l6FseuNnivO2II08gZXbN  
schema:  
  items:  
    \$ref: '#/components/schemas/WorkflowTarget'  
  type: array  
description: OK  
"400":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
    description: Bad Request  
"401":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
    description: Unauthenticated  
"403":  
  content:  
  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
    description: Unauthorized  
"500":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
    description: Internal Server Error  
summary: Returns a list of workflow targets.

tags:  
- Workflow Targets  
/workflow/api/v8/targets/{id}:  
delete:  
operationId: deleteWorkflowTarget  
parameters:  
- explode: false  
in: path  
name: id  
required: true  
schema:  
  type: string  
  style: simple  
responses:  
"204":  
  description: No Content  
"400":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
    description: Bad Request  
"401":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
    description: Unauthenticated  
"403":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
    description: Unauthorized  
"404":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
    description: Not Found  
"500":  
  content:  
    application/json:  
      schema:  
        \$ref: '#/components/schemas/Error'  
    description: Internal Server Error  
summary: Deletes a workflow target.  
tags:

- Workflow Targets

get:

operationId: getWorkflowTarget

parameters:

- explode: false

in: path

name: id

required: true

schema:

type: string

style: simple

responses:

"200":

content:

application/json:

example:

id: 01HQR8KEERONC2rTTJbNGCO0k2pTKSCwlAT

name: MSX Kafka

type: kafka.endpoint

properties:

disable\_certificate\_validation: false

display\_name: MSX Kafka

host: kafka.vms.svc.cluster.local

no\_runtime\_user: true

port: 9092

ssl\_enable: false

owner: aoadmin

valid: true

schema\_id: 01HQR4YUO8XZF4QKY5qtM47OyHLoepbmx43

adapter\_id: 01HQR4WT4TZ0X3NzZLl7wGkfr7wKsAzPbLq

base\_type: target

created\_on: 2020-08-03T22:29:57Z

created\_by: aoadmin

updated\_on: 2020-08-03T22:29:57Z

updated\_by: aoadmin

def\_access\_meta:

is\_internal: false

unique\_name: definition\_target\_01AN9H4AFTF5C2l6FseuNnivO2IIO8gZXbN

schema:

\$ref: '#/components/schemas/WorkflowTarget'

description: OK

"400":

content:

application/json:

schema:

\$ref: '#/components/schemas/Error'

description: Bad Request

"401":

content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Unauthenticated  
"403":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Unauthorized  
"404":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Not Found  
"500":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Internal Server Error  
summary: Returns a workflow target.  
tags:  
- Workflow Targets  
put:

operationId: updateWorkflowTarget  
parameters:  
- explode: false  
in: path  
name: id  
required: true  
schema:  
  type: string  
  style: simple  
requestBody:  
content:  
  application/json:  
  example:  
    name: MSX Kafka  
    description: A most excellent description.  
    type: kafka.endpoint  
  properties:  
    disable\_certificate\_validation: false  
    display\_name: MSX Kafka  
    host: kafka.vms.svc.cluster.local

```
    no_runtime_user: true
    port: 9092
    ssl_enable: false
  schema:
    $ref: '#/components/schemas/WorkflowTargetUpdate'
  required: true
responses:
  "200":
    content:
      application/json:
        example:
          id: 01HQR8KEERONC2rTTJbNGCO0k2pTKSCwlAT
          name: MSX Kafka
          type: kafka.endpoint
          properties:
            disable_certificate_validation: false
            display_name: MSX Kafka
            host: kafka.vms.svc.cluster.local
            no_runtime_user: true
            port: 9092
            ssl_enable: false
          owner: aoadmin
          valid: true
          schema_id: 01HQR4YUO8XZF4QKY5qtM47OyHLoepbmx43
          adapter_id: 01HQR4WT4TZ0X3NzZLl7wGkFR7wKsAzPbLq
          base_type: target
          created_on: 2020-08-03T22:29:57Z
          created_by: aoadmin
          updated_on: 2020-08-03T22:29:57Z
          updated_by: aoadmin
          def_access_meta:
            is_internal: false
          unique_name: definition_target_01AN9H4AFTF5C2l6FseuNnivO2HIO8gZXbN
        schema:
          $ref: '#/components/schemas/WorkflowTarget'
    description: OK
  "400":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Bad Request
  "401":
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Error'
    description: Unauthenticated
```

"403":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Unauthorized

"404":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Not Found

"500":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Internal Server Error  
summary: Updates a workflow target.  
tags:  
- Workflow Targets

/manageddevice/api/v1/templates:  
get:  
  operationId: getManagedDeviceTemplatesList  
responses:  
  "200":  
    content:  
      application/json:  
        schema:  
          items:  
            \$ref: '#/components/schemas/ManagedDeviceTemplateDTO'  
          type: array  
    description: OK

"400":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Bad Request

"401":  
content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
description: Unauthenticated

"403":  
content:  
  application/json:

```

    schema:
      $ref: '#/components/schemas/Error'
  description: Unauthorized
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
      description: Internal Server Error
summary: Returns a list of managed device templates.
tags:
- Managed Device Templates
post:
  operationId: createManagedDeviceTemplate
  requestBody:
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/ManagedDeviceTemplateDTO'
    required: true
  responses:
    "201":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/ManagedDeviceTemplateDTO'
      description: OK
    "400":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
      description: Bad Request
    "401":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
      description: Unauthenticated
    "403":
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/Error'
      description: Unauthorized
    "500":
      content:
        application/json:

```

```

    schema:
      $ref: '#/components/schemas/Error'
    description: Internal Server Error
    summary: Creates a managed device template.
    tags:
      - Managed Device Templates
  /manageddevice/api/v3/sites:
    get:
      operationId: getManagedDeviceSites
      parameters:
        - explode: true
          in: query
          name: filters
          required: false
          schema:
            items:
              type: string
            type: array
            style: form
      responses:
        "200":
          content:
            application/json:
              schema:
                items:
                  $ref: '#/components/schemas/ManagedDeviceSiteDTO'
                type: array
              description: OK
        "400":
          content:
            application/json:
              schema:
                $ref: '#/components/schemas/Error'
              description: Bad Request
        "401":
          content:
            application/json:
              schema:
                $ref: '#/components/schemas/Error'
              description: Unauthenticated
        "403":
          content:
            application/json:
              schema:
                $ref: '#/components/schemas/Error'
              description: Unauthorized
        "500":

```



content:  
  application/json:  
    schema:  
      \$ref: '#/components/schemas/Error'  
    description: Internal Server Error  
  summary: Returns a list of managed device sites.  
  tags:  
    - Managed Devices Sites

components:  
  parameters:  
    workflowPage:  
      explode: true  
      in: query  
      name: page  
      required: true  
      schema:  
        example: 0  
        format: int32  
        minimum: 0  
        type: integer  
      style: form  
    workflowPageSize:  
      explode: true  
      in: query  
      name: pageSize  
      required: true  
      schema:  
        example: 10  
        format: int32  
  
        maximum: 100  
        minimum: 1  
        type: integer  
      style: form  
    page:  
      explode: true  
      in: query  
      name: page  
      required: true  
      schema:  
        example: 0  
        format: int32  
        minimum: 0  
        type: integer  
      style: form  
    pageSize:  
      explode: true  
      in: query

name: pageSize  
required: true  
schema:  
  example: 10  
  format: int32  
  maximum: 1000  
  minimum: 1  
  type: integer  
style: form  
sortBy:  
  explode: true  
  in: query  
  name: sortBy  
  required: false  
  schema:  
    example: name  
    type: string  
  style: form  
sortOrder:  
  explode: true  
  in: query  
  name: sortOrder  
  required: false  
  schema:  
    enum:  
      - asc  
      - desc  
    type: string  
  style: form  
responses:  
  "204":  
    description: No Content  
  "400":  
    content:  
      application/json:  
        schema:  
          \$ref:  
          '#/components/schemas/Error'  
    description: Bad Request  
  "401":  
    content:  
      application/json:  
        schema:  
          \$ref: '#/components/schemas/Error'  
    description: Unauthenticated  
  "403":  
    content:  
      application/json:

```

    schema:
      $ref: '#/components/schemas/Error'
  description: Unauthorized
"404":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Not Found
"409":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Conflict
"412":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Precondition Failed
"422":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Unprocessable Entity
"500":
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Error'
  description: Internal Server Error
schemas:
  Product:
    allOf:
      - $ref: '#/components/schemas/Product_allOf'
      - $ref: '#/components/schemas/ProductCreate'
  ProductCreate:
    allOf:
      - $ref: '#/components/schemas/ProductUpdate'
  ProductUpdate:
    example:
      image: image
      multipleInstanceAllowed: true
    configuration:
      key: configuration

```

hasChildren: true  
serviceExtensions:  
- serviceType: serviceType  
  serviceInstanceXPath: serviceInstanceXPath  
  possibleXPathLocations:  
  - possibleXPathLocations  
  - possibleXPathLocations  
- serviceType: serviceType  
  serviceInstanceXPath: serviceInstanceXPath  
  possibleXPathLocations:  
  - possibleXPathLocations  
  - possibleXPathLocations  
displayOrder: 6  
orderLimit: 1  
description: description  
active: true  
uiConfig:  
  bannerImage: bannerImage  
  links:  
  - address: address  
    label: label  
    type: type  
    target: target  
  - address: address  
    label: label  
    type: type  
    target: target  
label: label  
version: 0  
parentId: parentId  
price: price  
serviceConfigQueryRootXPaths:  
- serviceConfigQueryRootXPaths  
- serviceConfigQueryRootXPaths  
name: name  
options:  
- hidden: true  
  dynamicData: true  
  childElements:  
  - null  
  - null  
  stepSize: 2  
  description: description  
  pricingAttributes:  
    additionalPeriodicPrice: additionalPeriodicPrice  
    periodicPrice: periodicPrice  
    includedQuantity: 7  
    oneTimePrice: oneTimePrice

unitOfMeasure: unitOfMeasure

timePeriod: timePeriod

additionalQuantity: 9

additionalOneTimePrice: additionalOneTimePrice

section: section

type: type

mandatory: true

minValue: 5

inputType: inputType

value: value

allowedValues:

- key: '{}'

- key: '{}'

maxValue: 5

minLimit: minLimit

label: label

billable: true

component: component

parentName: parentName

maxLimit: maxLimit

hint: hint

valueList:

- '{}'

- '{}'

name: name

header: header

allowedOptionValues:

- allowedOptionValues

- allowedOptionValues

supported: true

- hidden: true

dynamicData: true

childElements:

- null

- null

stepSize: 2

description: description

pricingAttributes:

additionalPeriodicPrice: additionalPeriodicPrice

periodicPrice: periodicPrice

includedQuantity: 7

oneTimePrice: oneTimePrice

unitOfMeasure: unitOfMeasure

timePeriod: timePeriod

additionalQuantity: 9

additionalOneTimePrice: additionalOneTimePrice

section: section  
type: type  
mandatory: true  
minValue: 5  
inputType: inputType  
value: value  
allowedValues:  
- key: '{}'  
- key: '{}'  
maxValue: 5  
minLimit: minLimit  
label: label  
billable: true  
component: component  
parentName: parentName  
maxLimit: maxLimit  
hint: hint  
valueList:  
- '{}'  
- '{}'  
name: name  
header: header  
allowedOptionValues:  
- allowedOptionValues  
- allowedOptionValues  
supported: true  
isResource: true  
properties:  
- hidden: true  
  dynamicData: true  
childElements:  
- null  
- null  
stepSize: 2  
description: description  
pricingAttributes:  
  additionalPeriodicPrice: additionalPeriodicPrice  
  periodicPrice: periodicPrice  
  includedQuantity: 7  
  oneTimePrice: oneTimePrice  
  unitOfMeasure: unitOfMeasure  
  timePeriod: timePeriod  
  additionalQuantity: 9  
  additionalOneTimePrice: additionalOneTimePrice  
section: section  
type: type  
mandatory: true  
minValue: 5

inputType: inputType  
value: value  
allowedValues:  
- key: '{}'  
- key: '{}'  
maxValue: 5  
minLimit: minLimit  
label: label  
billable: true  
component: component  
parentName: parentName  
maxLimit: maxLimit  
hint: hint  
valueList:  
- '{}'  
- '{}'  
name: name  
header: header  
allowedOptionValues:  
- allowedOptionValues  
- allowedOptionValues  
supported: true  
- hidden: true  
dynamicData: true  
childElements:  
- null  
- null  
stepSize: 2  
description: description  
pricingAttributes:  
additionalPeriodicPrice: additionalPeriodicPrice  
periodicPrice: periodicPrice  
includedQuantity: 7  
oneTimePrice: oneTimePrice  
unitOfMeasure: unitOfMeasure  
timePeriod: timePeriod  
additionalQuantity: 9  
additionalOneTimePrice: additionalOneTimePrice  
section: section  
type: type  
mandatory: true  
minValue: 5  
inputType: inputType  
value: value  
allowedValues:  
- key: '{}'  
- key: '{}'  
maxValue: 5

minLimit: minLimit  
label: label  
billable: true  
component: component  
parentName: parentName  
maxLimit: maxLimit  
hint: hint  
valueList:  
- '{}'  
- '{}'  
name: name  
header: header  
allowedOptionValues:  
- allowedOptionValues  
- allowedOptionValues  
supported: true  
properties:  
name:  
  maxLength: 128  
  minLength: 1  
  type: string  
label:  
  maxLength: 128  
  minLength: 1  
  type: string  
version:  
  type: integer  
description:  
  maxLength: 512  
  minLength: 1  
  type: string  
image:  
  type: string  
multipleInstanceAllowed:  
  type: boolean  
price:  
  type: string  
displayOrder:  
  type: integer  
active:  
  type: boolean  
orderLimit:  
  type: integer  
options:  
  items:  
    \$ref:  
'#/components/schemas/ServiceElement'  
  type: array



properties:  
 items:  
 \$ref: '#/components/schemas/ServiceElement'  
 type: array  
configuration:  
 additionalProperties:  
 type: string  
 type: object  
isResource:  
 type: boolean  
hasChildren:  
 type: boolean  
parentId:  
 format: UUID  
 type: string  
serviceExtensions:  
 items:  
 \$ref: '#/components/schemas/NSOConfigDataXPath'  
 type: array  
serviceConfigQueryRootXPaths:  
 items:  
 type: string  
 type: array  
uiConfig:  
 \$ref: '#/components/schemas/ServiceUIConfig'

required:  
- configuration  
- description  
- hasChildren  
- image  
- isResource  
- label  
- name  
- options  
- price  
- properties  
- serviceId  
- version  
type: object

ServiceElement:  
example:  
 hidden: true  
 dynamicData: true  
 childElements:  
 - null  
 - null  
 stepSize: 2  
 description: description

pricingAttributes:  
 additionalPeriodicPrice: additionalPeriodicPrice  
 periodicPrice: periodicPrice  
 includedQuantity: 7  
 oneTimePrice: oneTimePrice  
 unitOfMeasure: unitOfMeasure  
 timePeriod: timePeriod  
 additionalQuantity: 9  
 additionalOneTimePrice: additionalOneTimePrice  
section: section  
type: type  
mandatory: true  
minValue: 5  
inputType: inputType  
value: value  
allowedValues:  
- key: '{}'  
- key: '{}'  
maxValue: 5  
minLimit: minLimit  
label: label  
billable: true  
component: component  
parentName: parentName  
maxLimit: maxLimit  
hint: hint  
valueList:  
- '{}'  
- '{}'  
name: name  
header: header  
 allowedOptionValues:  
- allowedOptionValues  
- allowedOptionValues  
supported: true  
properties:  
 name:  
 type: string  
 label:  
 type: string  
 header:  
 type: string  
 description:  
 type: string  
 hint:  
 type: string  
 inputType:  
 type: string

type:  
  type: string  
component:  
  type: string  
maxLimit:  
  type: string  
minLimit:  
  type: string  
value:  
  type: string  
valueList:  
  items:  
    type: object  
  type: array  
allowedOptionValues:  
  items:  
    type: string  
  type: array  
allowedValues:  
  items:  
    additionalProperties:  
      type: object  
    type: object  
  type: array  
mandatory:  
  type: boolean  
section:  
  type: string  
billable:  
  
type: boolean  
hidden:  
  type: boolean  
parentName:  
  type: string  
supported:  
  type: boolean  
dynamicData:  
  type: boolean  
minValue:  
  type: integer  
maxValue:  
  type: integer  
stepSize:  
  type: integer  
pricingAttributes:  
  \$ref: '#/components/schemas/ServiceElementPrice'  
childElements:

items:  
  \$ref: '#/components/schemas/ServiceElement'  
  type: array  
type: object  
ServiceElementPrice:  
example:  
  additionalPeriodicPrice: additionalPeriodicPrice  
  periodicPrice: periodicPrice  
  includedQuantity: 7  
  oneTimePrice: oneTimePrice  
  unitOfMeasure: unitOfMeasure  
  timePeriod: timePeriod  
  additionalQuantity: 9  
  additionalOneTimePrice: additionalOneTimePrice  
properties:  
  oneTimePrice:  
    type: string  
  periodicPrice:  
    type: string  
  timePeriod:  
    type: string  
  unitOfMeasure:  
    type: string  
  includedQuantity:  
    type: integer  
  additionalOneTimePrice:  
    type: string  
  additionalPeriodicPrice:  
    type: string  
  additionalQuantity:  
    type: integer  
type: object  
NSOConfigDataXPath:  
example:  
  serviceType: serviceType  
  serviceInstanceXPath: serviceInstanceXPath  
  possibleXPathLocations:  
  - possibleXPathLocations  
  - possibleXPathLocations  
properties:  
  serviceInstanceXPath:  
    minLength: 1  
    type: string  
  serviceType:  
    type: string  
  possibleXPathLocations:  
    items:  
      type: string

type: array  
required:  
- serviceInstanceXPath  
type: object  
ServiceUIConfig:  
example:  
  bannerImage: bannerImage  
  links:  
  - address: address  
  label: label  
  type: type  
  
target: target  
  - address: address  
  label: label  
  type: type  
  target: target  
properties:  
  bannerImage:  
  type: string  
  links:  
  items:  
    \$ref: '#/components/schemas/ServiceUILink'  
  type: array  
type: object  
ServiceUILink:  
example:  
  address: address  
  label: label  
  type: type  
  target: target  
properties:  
  type:  
  type: string  
  label:  
  type: string  
  address:  
  type: string  
  target:  
  type: string  
type: object  
ProductsPage:  
allOf:  
- \$ref: '#/components/schemas/PageHeader'  
- \$ref: '#/components/schemas/ProductsPage\_allOf'  
Offer:  
allOf:  
- \$ref: '#/components/schemas/Offer\_allOf'

- \$ref: '#/components/schemas/OfferCreate'  
OfferCreate:  
 allOf:  
 - \$ref: '#/components/schemas/OfferUpdate'  
OfferUpdate:  
 example:  
 image:  
image  
 supportedOptions:  
 - name: name  
 value: value  
 - name: name  
 value: value  
 productId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
 price: price  
 approvals:  
 key:  
 - approvals  
 - approvals  
 name: name  
 displayOrder: 6  
 supportedProperties:  
 - supportedProperties  
 - supportedProperties  
 description: description  
 label: label  
 type: type  
 version: 0  
properties:  
 name:  
 maxLength: 128  
 minLength: 1  
 type: string  
 label:  
 maxLength: 128  
 minLength: 1  
 type: string  
 description:  
 maxLength: 512  
 minLength: 1  
 type: string  
 productId:  
 format: uuid  
 type: string  
 version:  
 type: integer  
 displayOrder:  
 type: integer

```

    image:
      type: string
    price:
      type:
string
      type:
      type: string
    supportedProperties:
      items:
        type: string
      type: array
    supportedOptions:
      items:
        $ref: '#/components/schemas/NameValue'
      type: array
    approvals:
      additionalProperties:
        items:
          type: string
          type: array
          type: object
    required:
    - description
    - displayOrder
    - image
    - label
    - name
    - productId
    - supportedOptions
    - supportedProperties
    - version
    type: object
  OffersPage:
    allOf:
    - $ref: '#/components/schemas/PageHeader'
    - $ref: '#/components/schemas/OffersPage_allOf'
  Device:
    allOf:
    - $ref: '#/components/schemas/Device_allOf'
    - $ref: '#/components/schemas/DeviceCreate'
  DeviceCreate:
    allOf:
    - $ref: '#/components/schemas/DeviceCreate_allOf'
    - $ref: '#/components/schemas/DeviceUpdate'

  DeviceUpdate:
    properties:
      name:

```

maxLength: 128  
minLength: 1  
type: string  
model:  
maxLength: 128  
minLength: 1  
type: string  
type:  
maxLength: 128  
minLength: 1  
type: string  
subType:  
maxLength: 128  
type: string  
serviceType:  
maxLength: 128  
type: string  
tags:  
additionalProperties:  
type: string  
type: object  
serialKey:  
maxLength: 128  
minLength: 11  
type: string  
version:  
maxLength: 128  
minLength: 1  
type: string  
managed:  
default: false  
type: boolean  
onboardType:  
maxLength: 128  
type: string  
onboardInformation:  
additionalProperties:  
type: string  
type: object  
attributes:  
additionalProperties:  
  
type: string  
type: object  
billing:  
\$ref: '#/components/schemas/DeviceBilling'  
required:  
- managed



- model
- name
- serialKey
- type
- version

type: object

DeviceBilling:

properties:

deviceSpeedGrade:

minLength: 1

type: string

deviceVnfSource:

minLength: 1

type: string

vnfFlavor:

minLength: 1

type: string

vnfImage:

minLength: 1

type: string

vnfName:

minLength: 1

type: string

vnfValue:

minLength: 1

type: string

required:

- deviceSpeedGrade
- deviceVnfSource
- vnfFlavor
- vnfImage
- vnfName
- vnfValue

type: object

DevicesPage:

allOf:

- \$ref: '#/components/schemas/PageHeader'
- \$ref: '#/components/schemas/DevicesPage\_allOf'

DeviceTemplateHistory:

example:

modifiedOn: 2000-01-23T04:56:07.000+00:00

statusError: statusError

templateParams:

- name: name

value: value

- name: name

value: value

id: 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
templateId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
deviceId: deviceId  
userId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
status: Applied

properties:

id:  
  format: uuid  
  type: string  
deviceId:  
  type: string  
templateId:  
  format: uuid  
  type: string  
userId:  
  format: uuid  
  type: string  
status:  
  enum:  
  - Applied  
  - Applying  
  - Apply Failed  
  - Detached  
  - Detaching  
  - Detach Failed  
  type: string  
statusError:  
  type: string  
templateParams:  
  items:  
    \$ref: '#/components/schemas/NameValue'  
  type: array

modifiedOn:

  format: date-time  
  type: string  
type: object

DeviceTemplateAttachRequest:

example:

  templateDetails:  
  - templateParams:  
    - name: name  
      value: value  
    - name: name  
      value: value  
  templateId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
  - templateParams:  
    - name: name

```

    value: value
  - name: name
    value: value
  templateId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
properties:
  templateDetails:
    items:
      $ref: '#/components/schemas/DeviceTemplateDetails'
    type: array
  type: object
DeviceTemplateDetails:
  example:
    templateParams:
      - name: name
        value: value
      - name: name
        value: value
    templateId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
  properties:
    templateId:
      format: uuid
      type: string
    templateParams:
      items:
        $ref: '#/components/schemas/NameValue'
      type: array
    type: object
DeviceTemplateUpdateDetails:
  example:
    templateHistoryId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
    templateParams:
      - name: name
        value: value
      - name: name
        value: value
  properties:
    templateHistoryId:
      format: uuid
      type: string
    templateParams:
      items:
        $ref: '#/components/schemas/NameValue'
      type: array
    type: object
DeviceTemplateUpdateRequest:
  example:
    templateDetails:
      - templateHistoryId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91

```

```

    templateParams:
      - name: name
        value: value
      - name: name
        value: value
    - templateHistoryId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
    templateParams:
      - name: name
        value: value
      - name: name
        value:
value
  properties:
    templateDetails:
      items:
        $ref: '#/components/schemas/DeviceTemplateUpdateDetails'
      type: array
    type: object
DeviceTemplate:
  allOf:
    - $ref: '#/components/schemas/DeviceTemplateCreate'
    - $ref: '#/components/schemas/DeviceTemplate_allOf'
DeviceTemplateCreate:
  example:
    serviceType: serviceType
    configContent: configContent
    deviceModels:
      - deviceModels
      - deviceModels
    templateStandard: templateStandard
    name: name
    tenantAccess:
      global: true
      templateId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
      tenantIds:
        - 046b6c7f-0b8a-43b9-b35d-6489e6daee91
        - 046b6c7f-0b8a-43b9-b35d-6489e6daee91
    resourceProvider: resourceProvider
    version: version
  properties:
    name:
      type: string
    version:
      type: string
    serviceType:
      type: string

```

```

deviceModels:
  items:
    type: string
    type: array
configContent:
  minLength: 1
  type: string
resourceProvider:
  type: string
templateStandard:
  type: string
tenantAccess:
  $ref: '#/components/schemas/DeviceTemplateAccess'
required:
- configContent
type: object
DeviceTemplateAccess:
example:
  global: true
  templateId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
  tenantIds:
  - 046b6c7f-0b8a-43b9-b35d-6489e6daee91
  - 046b6c7f-0b8a-43b9-b35d-6489e6daee91
properties:
  templateId:
    format: uuid
    type: string
  tenantIds:
    description: List of tenants to grant access. Mutually exclusive from global
      flag field.
    items:
      format: uuid
      type: string
    type: array
  global:
    description: Determines if the template is globally
accessible. Mutually
  exclusive from tenant list field.
  type: boolean
type: object
DeviceTemplateAccessResponse:
example:
  successListOfTenants:
  - 046b6c7f-0b8a-43b9-b35d-6489e6daee91
  - 046b6c7f-0b8a-43b9-b35d-6489e6daee91
  global: true
  failureListOfTenants:
  - 046b6c7f-0b8a-43b9-b35d-6489e6daee91

```

- 046b6c7f-0b8a-43b9-b35d-6489e6daee91

properties:

failureListOfTenants:

items:

format: uuid

type: string

type: array

global:

type: boolean

successListOfTenants:

items:

format: uuid

type: string

type: array

type: object

Service:

example:

modifiedOn: 2000-01-23T04:56:07.000+00:00

provisionedOn: 2000-01-23T04:56:07.000+00:00

tenantName: tenantName

providerId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91

tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91

definitionAttributes:

key: '{}'

attributes:

key: '{}'

id: id

subscriptionId: subscriptionId

userId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91

createdOn: 2000-01-23T04:56:07.000+00:00

status:

key: status

properties:

id:

readOnly: true

type: string

providerId:

format: uuid

type: string

tenantId:

format: uuid

type: string

userId:

format: uuid

type: string

subscriptionId:

type: string

tenantName:

type: string  
createdOn:  
format: date-time  
readOnly: true  
type: string  
modifiedOn:  
format: date-time  
readOnly: true  
type: string  
provisionedOn:  
format: date-time  
readOnly: true  
type: string  
status:  
additionalProperties:  
type: string  
type: object  
definitionAttributes:  
additionalProperties:  
type: object  
type: object  
attributes:  
additionalProperties:  
type: object  
type: object  
type: object  
ServicesPage:  
allOf:  
- \$ref: '#/components/schemas/PageHeader'  
- \$ref: '#/components/schemas/ServicesPage\_allOf'  
LegacyServiceOrder:  
example:  
serviceType: serviceType  
schedule:  
method: method  
absolute:  
dateTime: 2017-08-01 13:56:44 -0700  
relative:  
scheduleIn: 2h 10m 30s  
transactionUUID: 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
payload:  
offer:  
key: offer  
cost:  
key: cost  
serviceDowngrade:  
key: '{}'  
provider:

key: provider  
service:  
key: service  
subscriptionName: subscriptionName

subscriptionId: subscriptionId

user:

key: user

subscriptionDetail:

offerSelection:

key: '{}'

siteCount: '{}'

dealerCode: dealerCode

configuration:

key: configuration

priceDetail:

key: '{}'

termsAndConditionId: termsAndConditionId

sites:

- operationalStatus: operationalStatus

address:

country: country

address2: address2

city: city

address1: address1

name: name

company: company

postCode: postCode

state: state

display\_name: display\_name

devices:

- deviceOnboarding:

deviceInstanceId: deviceInstanceId

deviceOnboardInformation:

key: '{}'

managed: true

tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91

deviceModel: deviceModel

deviceName: deviceName

deviceOnboardingType: deviceOnboardingType

name: name

model: model

type: type

deviceAttributes:

key: '{}'

deviceId: deviceId

delete: true



- deviceOnboarding:  
deviceInstanceId: deviceInstanceId  
deviceOnboardInformation:  
key: '{}'  
managed: true  
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
deviceModel: deviceModel  
deviceName: deviceName  
deviceOnboardingType: deviceOnboardingType  
name: name  
model: model  
type: type  
deviceAttributes:  
key: '{}'  
deviceId: deviceId

delete: true

displayName: displayName  
siteAttributes:  
key: '{}'  
siteId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
siteName: siteName  
delete: true

- operationalStatus: operationalStatus

address:  
country: country  
address2: address2  
city: city  
address1: address1  
name: name  
company: company  
postCode: postCode  
state: state  
display\_name: display\_name

devices:

- deviceOnboarding:  
deviceInstanceId: deviceInstanceId  
deviceOnboardInformation:  
key: '{}'  
managed: true  
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
deviceModel: deviceModel  
deviceName: deviceName  
deviceOnboardingType:

deviceOnboardingType

name: name  
model: model  
type: type

deviceAttributes:  
  key: '{}'  
deviceId: deviceId  
delete: true  
- deviceOnboarding:  
  deviceInstanceId: deviceInstanceId  
  deviceOnboardInformation:  
    key: '{}'  
  managed: true  
  tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
  deviceModel: deviceModel  
  deviceName: deviceName  
  deviceOnboardingType: deviceOnboardingType  
name: name  
model: model  
type: type  
deviceAttributes:  
  key: '{}'  
deviceId: deviceId  
delete: true  
displayName: displayName  
siteAttributes:  
  key: '{}'  
siteId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
siteName: siteName  
delete: true  
serviceInstanceDetail:  
  key: '{}'  
pricePlanId: pricePlanId  
tenant:  
  key: tenant  
nsoResponseTypes:  
  deleteOperation: deleteOperation  
  updateOperation: updateOperation  
  createOperation: createOperation  
messageId: messageId  
action: action  
type: type  
properties:  
  messageId:  
    type: string  
  type:  
    type: string  
  serviceType:  
    type: string  
  action:  
    type: string  
  schedule:

\$ref: '#/components/schemas/LegacyScheduleConfig'  
payload:  
\$ref: '#/components/schemas/LegacyServiceOrderDetail'  
transactionUUID:  
format: uuid  
type: string  
type: object  
LegacyScheduleConfig:  
example:  
method: method  
absolute:  
dateTime: 2017-08-01 13:56:44 -0700

relative:  
scheduleIn: 2h 10m 30s  
properties:  
method:  
type: string  
relative:  
\$ref: '#/components/schemas/LegacyRelativeConfig'  
absolute:  
\$ref: '#/components/schemas/LegacyAbsoluteConfig'  
type: object

LegacyRelativeConfig:  
example:  
scheduleIn: 2h 10m 30s  
properties:  
scheduleIn:  
example: 2h 10m 30s  
type: string  
type: object

LegacyAbsoluteConfig:  
example:  
dateTime: 2017-08-01 13:56:44 -0700  
properties:  
dateTime:  
example: 2017-08-01 13:56:44 -0700  
type: string  
type: object

LegacyServiceOrderDetail:  
example:  
offer:  
key: offer  
cost:  
key: cost  
serviceDowngrade:  
key: '{}'  
provider:

key: provider  
service:  
key: service  
subscriptionName: subscriptionName  
subscriptionId: subscriptionId  
user:  
key: user  
subscriptionDetail:  
offerSelection:  
key: '{}'  
siteCount: '{}'  
dealerCode: dealerCode  
configuration:  
key: configuration  
priceDetail:  
key: '{}'  
termsAndConditionId: termsAndConditionId  
sites:  
- operationalStatus: operationalStatus  
address:  
country: country  
address2: address2  
city: city  
address1: address1  
name: name  
company: company  
postCode: postCode  
state: state  
display\_name: display\_name  
devices:  
- deviceOnboarding:  
deviceInstanceId: deviceInstanceId  
deviceOnboardInformation:  
key: '{}'  
managed: true  
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
deviceModel: deviceModel  
  
deviceName: deviceName  
deviceOnboardingType: deviceOnboardingType  
name: name  
model: model  
type: type  
deviceAttributes:  
key: '{}'  
deviceId: deviceId  
delete: true  
- deviceOnboarding:

deviceInstanceId: deviceInstanceId  
deviceOnboardInformation:  
  key: '{}'  
  managed: true  
  tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
  deviceModel: deviceModel  
  deviceName: deviceName  
  deviceOnboardingType: deviceOnboardingType  
name: name  
model: model  
type: type  
deviceAttributes:  
  key: '{}'  
  deviceId: deviceId  
  delete: true  
displayName: displayName  
siteAttributes:  
  key: '{}'  
  siteId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
  siteName: siteName  
  delete: true  
- operationalStatus: operationalStatus  
address:  
  country: country  
  address2: address2  
  city: city  
  address1: address1  
  name: name  
  company: company  
  postCode: postCode  
  state: state  
  display\_name: display\_name  
devices:  
- deviceOnboarding:  
  deviceInstanceId: deviceInstanceId  
  deviceOnboardInformation:  
    key: '{}'  
    managed: true  
    tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
    deviceModel: deviceModel  
    deviceName: deviceName  
    deviceOnboardingType: deviceOnboardingType  
  name: name  
  model: model  
  type: type  
  deviceAttributes:  
    key: '{}'  
  deviceId: deviceId

```
    delete:
true
  - deviceOnboarding:
    deviceInstanceId: deviceInstanceId
    deviceOnboardInformation:
      key: '{}
    managed: true
    tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
    deviceModel: deviceModel
    deviceName: deviceName
    deviceOnboardingType: deviceOnboardingType
    name: name
    model: model
    type: type
    deviceAttributes:
      key: '{}
    deviceId: deviceId
    delete: true
    displayName: displayName
    siteAttributes:
      key: '{}
    siteId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
    siteName: siteName
    delete: true
    serviceInstanceDetail:
      key: '{}
    pricePlanId: pricePlanId
tenant:
  key: tenant
nsoResponseTypes:
  deleteOperation: deleteOperation
  updateOperation:
updateOperation
  createOperation: createOperation
properties:
  service:
    additionalProperties:
      type: string
      type: object
tenant:
  additionalProperties:
    type: string
    type: object
user:
  additionalProperties:
    type: string
    type: object
provider:
```

```

    additionalProperties:
      type: string
    type: object
  offer:
    additionalProperties:
      type: string
    type: object
  cost:
    additionalProperties:
      type: string
    type: object
  subscriptionId:
    type: string
  subscriptionName:
    type: string
  subscriptionDetail:
    $ref: '#/components/schemas/LegacySubscriptionDetail'
  serviceDowngrade:
    additionalProperties:
      type: object
    type: object
  nsoResponseTypes:
    $ref:
      '#/components/schemas/LegacyNsoResponseTypes'
    type: object
  LegacySubscriptionDetail:
    example:
      offerSelection:
        key: '{}'
      siteCount: '{}'
      dealerCode: dealerCode
      configuration:
        key: configuration
      priceDetail:
        key: '{}'
      termsAndConditionId: termsAndConditionId
      sites:
        - operationalStatus: operationalStatus
      address:
        country: country
        address2: address2
        city: city
        address1: address1
        name: name
        company: company
        postCode: postCode
        state: state
        display_name: display_name

```

devices:

- deviceOnboarding:

deviceInstanceId: deviceInstanceId

deviceOnboardInformation:

key: '{}'

managed: true

tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91

deviceModel: deviceModel

deviceName: deviceName

deviceOnboardingType: deviceOnboardingType

name: name

model: model

type: type

deviceAttributes:

key: '{}'

deviceId: deviceId

delete: true

- deviceOnboarding:

deviceInstanceId: deviceInstanceId

deviceOnboardInformation:

key: '{}'

managed: true

tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91

deviceModel: deviceModel

deviceName: deviceName

deviceOnboardingType: deviceOnboardingType

name: name

model: model

type: type

deviceAttributes:

key: '{}'

deviceId: deviceId

delete: true

displayName: displayName

siteAttributes:

key: '{}'

siteId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91

siteName: siteName

delete: true

- operationalStatus: operationalStatus

address:

country: country

address2: address2

city: city

address1: address1

name: name

company: company



```
postCode: postCode
state: state
display_name: display_name
devices:
- deviceOnboarding:
  deviceInstanceId: deviceInstanceId
  deviceOnboardInformation:
    key: '{}
  managed: true
  tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
  deviceModel: deviceModel
  deviceName: deviceName
  deviceOnboardingType: deviceOnboardingType
  name: name
  model: model
  type: type
  deviceAttributes:
    key: '{}
  deviceId: deviceId
  delete: true
- deviceOnboarding:
  deviceInstanceId: deviceInstanceId
  deviceOnboardInformation:
    key: '{}
  managed: true
  tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
  deviceModel: deviceModel
  deviceName: deviceName
  deviceOnboardingType: deviceOnboardingType
  name: name
  model: model
  type: type
  deviceAttributes:
    key: '{}
  deviceId: deviceId
  delete: true
  displayName: displayName
  siteAttributes:
    key: '{}
  siteId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
  siteName: siteName
  delete: true
  serviceInstanceDetail:
    key: '{}
  pricePlanId: pricePlanId
properties:
  siteCount:
  type: object
```

sites:  
items:  
  \$ref: '#/components/schemas/LegacySite'  
type: array  
offerSelection:  
  additionalProperties:  
    type: object  
  type: object  
serviceInstanceDetail:  
  additionalProperties:  
    type: object  
  type: object  
priceDetail:  
  additionalProperties:  
    type: object  
  type: object  
dealerCode:  
  type: string  
pricePlanId:  
  type: string  
termsAndConditionId:  
  type: string  
configuration:  
  additionalProperties:  
    type: string  
  type: object  
type: object  
LegacyNsoResponseTypes:  
example:  
  deleteOperation: deleteOperation  
  updateOperation: updateOperation  
  createOperation: createOperation  
properties:  
  createOperation:  
    type: string  
  updateOperation:  
    type: string  
  deleteOperation:  
    type: string  
type: object  
LegacySite:  
example:  
  operationalStatus: operationalStatus  
  address:  
    country: country  
    address2: address2  
    city: city  
    address1: address1

name: name  
company: company  
postCode: postCode  
state: state  
display\_name: display\_name  
devices:  
- deviceOnboarding:  
  deviceInstanceId: deviceInstanceId  
  deviceOnboardInformation:  
    key: '{}'  
  managed: true  
  tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
  deviceModel: deviceModel  
  deviceName: deviceName  
  deviceOnboardingType: deviceOnboardingType  
name: name  
model: model  
type: type  
deviceAttributes:  
  key: '{}'  
deviceId: deviceId  
delete: true  
- deviceOnboarding:  
  deviceInstanceId: deviceInstanceId  
  deviceOnboardInformation:  
    key: '{}'  
  managed: true  
  tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
  deviceModel: deviceModel  
  deviceName: deviceName  
  deviceOnboardingType:  
deviceOnboardingType  
  name: name  
  model: model  
  type: type  
  deviceAttributes:  
    key: '{}'  
  deviceId: deviceId  
  delete: true  
  displayName: displayName  
  siteAttributes:  
    key: '{}'  
  siteId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
  siteName: siteName  
  delete: true  
properties:  
  siteId:  
    format: uuid

type: string  
siteName:  
type: string  
displayName:  
type: string  
address:  
\$ref: '#/components/schemas/LegacyAddress'  
devices:  
items:  
\$ref: '#/components/schemas/LegacySiteDevice'  
type: array  
siteAttributes:  
additionalProperties:  
type: object  
type: object  
delete:  
type: boolean  
operationalStatus:  
type: string  
required:  
- address  
- siteId  
- siteName  
type: object

LegacyAddress:

example:  
country: country  
address2: address2  
city: city  
address1: address1  
name: name  
company: company  
postCode: postCode  
state: state  
display\_name: display\_name  
properties:  
name:  
type: string  
display\_name:  
type: string  
company:  
type: string  
address1:  
type: string  
address2:  
type: string  
city:

```

    type: string
state:
    type: string
country:
    type: string
postCode:
    type: string
type: object
LegacySiteDevice:
example:
deviceOnboarding:
deviceInstanceId: deviceInstanceId
deviceOnboardInformation:
    key: '{}
managed: true
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
deviceModel: deviceModel
deviceName: deviceName
deviceOnboardingType: deviceOnboardingType
name: name
model: model
type: type
deviceAttributes:
    key: '{}
deviceId: deviceId
delete: true
properties:
deviceId:
    type: string
name:
    type: string
model:
    type: string
type:
    type: string
deviceAttributes:
additionalProperties:
    type: object
type: object
deviceOnboarding:
    $ref: '#/components/schemas/LegacySiteDeviceOnboard'
delete:
    type: boolean
required:
- name
type: object
LegacySiteDeviceOnboard:
example:

```

deviceInstanceId: deviceInstanceId  
deviceOnboardInformation:  
  key: '{}'  
managed: true  
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
deviceModel: deviceModel  
deviceName: deviceName  
deviceOnboardingType: deviceOnboardingType  
properties:  
  deviceInstanceId:  
    type: string  
  tenantId:  
    format: uuid  
    type: string  
  deviceName:  
    minLength: 1  
    type: string  
  managed:  
    default: true  
    type: boolean  
  deviceModel:  
    type: string  
  deviceOnboardingType:  
    type: string  
  deviceOnboardInformation:  
    additionalProperties:  
      type: object  
    type: object  
type: object

LegacyServiceOrderResponse:

example:  
  transactionUUID: transactionUUID  
  serviceInstanceIds:  
  - serviceInstanceIds  
  - serviceInstanceIds  
  devices:  
  - '{}'  
  - '{}'  
  sites:  
  - '{}'  
  - '{}'  
  message: message  
  subscriptionId: subscriptionId  
  url: url  
  status: status  
properties:  
  message:  
    type: string

transactionUUID:

format: uud

type: string

subscriptionId:

type: string

url:

type: string

status:

type: string

serviceInstanceIds:

items:

type: string

type: array

sites:

items:

type: object

type: array

devices:

items:

type: object

type: array

type: object

Site:

example:

image: image

address:

country: country

address2: address2

city: city

address1: address1

name: name

company: company

postCode: postCode

state: state

devices:

- serviceType: serviceType

serviceId: serviceId

deviceId: deviceId

- serviceType: serviceType

serviceId: serviceId

deviceId: deviceId

description: description

type: type

createdOn: 2000-01-23T04:56:07.000+00:00

parentId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91

modifiedOn: 2000-01-23T04:56:07.000+00:00

createdBy: createdBy  
contact:  
  phone: phone  
  name: name  
  email: email  
tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
name: name  
attributes:  
  key: attributes  
location:  
  latitude: -75.5850925717018  
  longitude: 36.988422590534526  
modifiedBy: modifiedBy  
id: 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
status:  
  severity: severity  
  lastUpdated: 2000-01-23T04:56:07.000+00:00  
  name: unknown  
  type: unknown  
  lastUpdatedMessage: lastUpdatedMessage  
  value: unknown  
properties:  
  id:  
    format: uuid  
    readOnly: true  
    type: string  
  tenantId:  
    format: uuid  
    type: string  
  parentId:  
    format: uuid  
    type: string  
  name:  
    maxLength: 128  
    minLength: 1  
    type: string  
  type:  
    maxLength:  
128  
    pattern: ^[\_a-zA-Z0-9]\*\$\br/>    type: string  
  description:  
    maxLength: 256  
    type: string  
  address:  
    \$ref: '#/components/schemas/SiteAddress'  
  contact:  
    \$ref: '#/components/schemas/SiteContact'



image:  
 maxLength: 40000  
 type: string  
attributes:  
 additionalProperties:  
 type: string  
 type: object  
devices:  
 items:  
 \$ref: '#/components/schemas/DeviceSummary'  
 type: array  
location:  
 \$ref: '#/components/schemas/SiteLocation'  
status:  
 \$ref: '#/components/schemas/SiteStatus'  
createdOn:  
 format: date-time  
 readOnly: true  
 type: string  
createdBy:  
 readOnly: true  
 type: string  
modifiedOn:  
 format: date-time  
 readOnly: true  
 type: string  
modifiedBy:  
 readOnly: true  
 type:  
string  
 type: object  
DeviceSummary:  
 example:  
 serviceType: serviceType  
 serviceId: serviceId  
 deviceId: deviceId  
 properties:  
 deviceId:  
 type: string  
 serviceId:  
 type: string  
 serviceType:  
 type: string  
 type: object  
SiteStatus:  
 example:  
 severity: severity  
 lastUpdated: 2000-01-23T04:56:07.000+00:00

name: unknown  
type: unknown  
lastUpdatedMessage: lastUpdatedMessage  
value: unknown  
properties:  
  type:  
    default: unknown  
    maxLength: 128  
    minLength: 1  
    type: string  
  name:  
    default: unknown  
    maxLength: 128  
    minLength: 1  
    type: string  
  value:  
    default: unknown  
    maxLength: 128  
    minLength: 1  
    type: string  
  severity:  
    maxLength: 128  
    minLength: 1  
    type: string  
  lastUpdated:  
    format: date-time  
    type: string  
  lastUpdatedMessage:  
    maxLength: 128  
    minLength: 1  
    type: string  
required:  
- lastUpdatedMessage  
- name  
- severity  
- type  
- value  
type: object  
SiteCreate:  
  allOf:  
  - \$ref: '#/components/schemas/SiteCreate\_allOf'  
  - \$ref: '#/components/schemas/SiteUpdate'  
SiteUpdate:  
  example:  
    image: image  
    address:  
      country: country  
      address2: address2

city: city  
address1: address1  
name: name  
company: company  
postCode: postCode  
state: state  
contact:  
  phone: phone  
  name: name  
  email: email  
name: name  
description: description  
location:  
  latitude: -75.5850925717018  
  longitude: 36.988422590534526  
attributes:  
  key: attributes  
type: type  
parentId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
properties:  
  parentId:  
    format: uuid  
    type: string  
  name:  
    maxLength: 128  
    minLength: 1  
    type: string  
  description:  
    maxLength: 256  
    type: string  
  type:  
    maxLength: 128  
    pattern: ^[-\_a-zA-Z0-9]\*\$  
    type: string  
  address:  
    \$ref: '#/components/schemas/SiteAddress'  
  contact:  
    \$ref: '#/components/schemas/SiteContact'  
  location:  
    \$ref: '#/components/schemas/SiteLocation'  
  image:  
    maxLength: 40000  
    type: string  
  attributes:  
    additionalProperties:  
      type: string  
    type: object  
required:

- name  
type: object  
SiteAddress:  
example:  
country: country  
address2: address2  
city: city  
address1: address1  
name: name  
company: company  
postCode: postCode  
state: state  
properties:  
name:  
type: string  
company:  
type: string  
address1:  
minLength: 1  
type: string  
address2:  
type: string  
city:  
minLength: 1  
type: string  
state:  
minLength: 1  
type: string  
country:  
minLength: 1  
type: string  
postCode:  
minLength: 1  
type: string  
required:  
- address1  
- city  
- country  
- postCode  
- state  
type: object

SiteContact:  
example:  
phone: phone  
name: name  
email: email  
properties:  
name:

type: string  
phone:  
type: string  
email:  
format: email  
type: string  
required:  
- name  
- phone  
type: object  
SiteLocation:  
example:  
latitude: -75.5850925717018  
longitude: 36.988422590534526  
properties:  
latitude:  
format: double  
maximum: 90  
minimum: -90  
type: number  
longitude:  
format: double  
maximum: 180  
minimum: -180  
type: number  
required:  
- latitude  
- longitude  
type: object  
SitesPage:  
allOf:  
- \$ref: '#/components/schemas/PageHeader'  
- \$ref: '#/components/schemas/SitesPage\_allOf'  
ResourceType:  
enum:  
- service  
- device  
type: string  
ResourceStatus:  
enum:  
- up  
- down  
- unknown  
type: string  
ResourceHealth:  
example:  
description: description  
id: id

```
properties:
  id:
    type: string
  type:
    $ref: '#/components/schemas/ResourceType'
  status:
    $ref: '#/components/schemas/ResourceStatus'
  description:
    maxLength: 256
    type: string
required:
- id
- status
- type
type:
object
AccessToken:
example:
  access_token: access_token
  firstName: firstName
  lastName: lastName
  scope: scope
  roles:
- roles
- roles
  id_token: id_token
  tenantId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91
  token_type: token_type
  expires_in: 0
  email: email
  username: username
properties:
  access_token:
    type: string
  token_type:
    type: string
  expires_in:
    type: integer
  scope:
    type: string
  firstName:
    type: string
  lastName:
    type: string
  roles:
  items:
    type: string
  type: array
```

id\_token:  
  type: string  
tenantId:  
  format: uuid  
  type: string  
email:  
  format: email  
  type: string  
username:  
  type: string  
type: object  
body:  
properties:  
  grant\_type:  
    type: string  
  username:  
    type: string  
  password:  
    format: password  
    type: string  
  access\_token:  
    type: string  
  switch\_username:  
    type: string  
  tenant\_id:  
    format: uuid  
    type: string  
  scope:  
    type: string  
  nonce:  
    type: string  
  tenant\_name:  
    type: string  
required:  
- grant\_type  
type: object  
Role:  
example:  
  permissions:  
  - permissions  
  - permissions  
  name: name  
  description: description  
  id: 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
properties:  
  id:  
    format: uuid  
    type: string

name:  
  type: string  
description:  
  type: string  
permissions:  
  items:  
    type: string  
    type: array  
type: object  
Tenant:  
  allOf:  
  - \$ref: '#/components/schemas/Tenant\_allOf'  
  - \$ref: '#/components/schemas/TenantCreate'  
TenantCreate:  
  example:  
    image: image  
    numberOfChildren: 0  
    name: name  
    description: description  
    url: url  
    parentId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
  properties:  
    name:  
      maxLength: 128  
      minLength: 1  
      type: string  
    description:  
      maxLength: 512  
      minLength: 1  
      type: string  
    url:  
      type: string  
    image:  
      maxLength: 40000  
      type: string  
    parentId:  
      format: uuid  
      type: string  
    numberOfChildren:  
      format: int64  
      readOnly: true  
      type: integer  
  required:  
  - name  
  type: object  
TenantUpdate:  
  example:  
    image: image



numberOfChildren: 0  
name: name  
description: description  
url: url  
parentId: 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
properties:  
  name:  
    maxLength: 128  
    minLength: 1  
    type: string  
  description:  
    maxLength: 512  
    minLength: 1  
    type: string  
  url:  
    type: string  
  image:  
    maxLength: 40000  
    type: string  
  parentId:  
    format: uuid  
    type: string  
  numberOfChildren:  
    format: int64  
    readOnly: true  
    type: integer  
required:  
- name  
type: object  
TenantsPage:  
  allOf:  
  - \$ref: '#/components/schemas/PageHeader'  
  - \$ref: '#/components/schemas/TenantsPage\_allOf'  
User:  
  allOf:  
  - \$ref: '#/components/schemas/User\_allOf'  
  - \$ref: '#/components/schemas/UserCreate'  
UserCreate:  
  allOf:  
  - \$ref: '#/components/schemas/UserUpdate'  
  - \$ref: '#/components/schemas/UserCreate\_allOf'  
UserUpdate:  
  example:  
    firstName: firstName  
    lastName: lastName  
    roleIds:  
    - 046b6c7f-0b8a-43b9-b35d-6489e6daee91

- 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
passwordPolicyName: passwordPolicyName  
email: email  
tenantIds:  
- 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
- 046b6c7f-0b8a-43b9-b35d-6489e6daee91  
properties:  
firstName:  
  type: string  
lastName:  
  type: string  
email:  
  format: email  
  type: string  
roleIds:  
  items:  
    format: uuid  
    type: string  
  type: array  
tenantIds:  
  items:  
    format: uuid  
    type: string  
  type: array  
passwordPolicyName:  
  type: string  
required:  
- email  
- lastName  
- passwordPolicyName  
type: object  
UpdatePassword:  
example:  
  oldPassword: oldPassword  
  newPassword: newPassword  
  username: username  
properties:  
  username:  
    type: string  
  oldPassword:  
    format: password  
  
type: string  
  newPassword:  
    format: password  
    type: string  
required:  
- newPassword

- oldPassword
- username

type: object

UsersPage:

allOf:

- \$ref: '#/components/schemas/PageHeader'
- \$ref: '#/components/schemas/UsersPage\_allOf'

WorkflowFooter:

properties:

- created\_on:
  - type: string
- created\_by:
  - type: string
- updated\_on:
  - type: string
- updated\_by:
  - type: string
- owner:
  - type: string
- unique\_name:
  - type: string

type: object

StartWorkflowResponse:

example:

- definition\_id: definition\_id
- base\_type: base\_type
- created\_on: created\_on
- schema\_id: schema\_id
- id: id
- type: type
- version: version
- created\_by: created\_by
- status:
  - key: '{}'

properties:

- id:
  - type: string
- definition\_id:

type: string

- schema\_id:
  - type: string
- type:
  - type: string
- base\_type:
  - type: string
- status:
- additionalProperties:

```

    type: object
  type: object
  version:
    type: string
  created_by:
    type: string
  created_on:
    type: string
type: object
ValidateWorkflowResponse:
  example:
    workflow_valid: true
    total_valid: 6
    total_actions: 0
    invalid_action_ids:
      - invalid_action_ids
      - invalid_action_ids
  properties:
    total_actions:
      type: integer
    total_valid:
      type: integer
    workflow_valid:
      type: boolean
    invalid_action_ids:
      items:
        type: string
      type: array
type: object
Workflow:
  allOf:
    - $ref: '#/components/schemas/Workflow_allOf'
    - $ref: '#/components/schemas/WorkflowFooter'
WorkflowMetadata:
  properties:
    git_info:
      $ref: '#/components/schemas/WorkflowMetadata_git_info'
type: object
WorkflowVariable:
  allOf:
    - $ref: '#/components/schemas/WorkflowVariable_allOf'
    - $ref: '#/components/schemas/WorkflowFooter'
WorkflowAction:
  example:
    workflow_id: workflow_id
    ended_on: ended_on
    object_type: object_type
    blocks:

```

- unique\_name: unique\_name  
workflow\_id: workflow\_id  
base\_type: base\_type  
object\_type: object\_type  
subworkflow\_id: subworkflow\_id  
name: name  
schema\_id: schema\_id  
title: title  
type: type  
version: version  
actions:  
- null  
- null  
properties:  
key: '{}'  
- unique\_name: unique\_name  
workflow\_id: workflow\_id  
base\_type: base\_type  
object\_type: object\_type  
subworkflow\_id: subworkflow\_id

name: name  
schema\_id: schema\_id  
title: title  
type: type  
version: version  
actions:  
- null  
- null  
properties:  
key: '{}'  
description: description  
title: title  
type: type  
output:  
key: '{}'  
definition\_id: definition\_id  
unique\_name: unique\_name  
base\_type: base\_type  
started\_on: started\_on  
schema\_id: schema\_id  
name: name  
adapter\_id: adapter\_id  
id: id  
started\_by: started\_by  
properties:  
key: '{}'  
status:

```
    key: '{}'  
properties:  
  id:  
    type: string  
  workflow_id:  
    type: string  
  definition_id:  
    type: string  
  schema_id:  
    type: string  
  adapter_id:  
    type: string  
  unique_name:  
    type: string  
  name:  
    type: string  
  title:  
    type: string  
  
type:  
  type: string  
  base_type:  
    type: string  
  properties:  
    additionalProperties:  
      type: object  
    type: object  
  object_type:  
    type: string  
  started_by:  
    type: string  
  blocks:  
    items:  
      $ref: '#/components/schemas/WorkflowActionBlock'  
    type: array  
  status:  
    additionalProperties:  
      type: object  
    type: object  
  description:  
    type: string  
  output:  
    additionalProperties:  
      type: object  
    type: object  
  started_on:  
    type: string  
  ended_on:
```

type: string  
type: object  
WorkflowActionBlock:  
example:  
unique\_name: unique\_name  
workflow\_id: workflow\_id  
base\_type: base\_type  
object\_type: object\_type  
subworkflow\_id: subworkflow\_id  
name: name  
schema\_id: schema\_id  
title: title

type: type  
version: version  
actions:  
- null  
- null  
properties:  
key: '{}'  
properties:  
unique\_name:  
type: string  
name:  
type: string  
title:  
type: string  
type:  
type: string  
version:  
type: string  
base\_type:  
type: string  
properties:  
additionalProperties:  
type: object  
type: object  
object\_type:  
type: string  
actions:  
items:  
\$ref: '#/components/schemas/WorkflowAction'  
type: array  
subworkflow\_id:  
type: string  
workflow\_id:  
type: string  
schema\_id:

```
    type: string
type: object
WorkflowMapping:
example:
  modifiedOn: modifiedOn
  uniqueName: uniqueName
  createdBy: createdBy
  modifiedBy: modifiedBy
  id: id
  createdOn: createdOn
  tenantIds:
    - 046b6c7f-0b8a-43b9-b35d-6489e6daee91
    - 046b6c7f-0b8a-43b9-b35d-6489e6daee91
properties:
  id:
    type: string
  tenantIds:
    items:
      format: uuid
      type: string
    type: array
  uniqueName:
    type: string
  createdBy:
    type: string
  createdOn:
    type: string
  modifiedBy:
    type: string
  modifiedOn:
    type: string
type: object
WorkflowStartConfig:
example:
  input_variables:
    - null
    - null
  type_of_target_needed: type_of_target_needed
  target_id: target_id
properties:
  input_variables:
    items:
      $ref: '#/components/schemas/WorkflowVariable'
    type: array
  type_of_target_needed:
    type: string
  target_id:
    type: string
```



type: object  
WorkflowCategory:  
allOf:  
- \$ref: '#/components/schemas/WorkflowCategory\_allOf'  
- \$ref: '#/components/schemas/WorkflowFooter'

WorkflowCategoryCreate:

example:  
unique\_name: unique\_name  
name: name  
schema\_id: schema\_id  
description: description  
title: title

properties:

name:  
maxLength: 128  
minLength: 1  
type: string  
title:  
maxLength: 128  
minLength: 1  
type: string  
description:  
maxLength: 256  
minLength: 1  
type: string  
schema\_id:  
type: string  
unique\_name:  
type: string

required:

- description  
- name  
- schema\_id  
- title

type: object

WorkflowCategoryUpdate:

example:  
unique\_name: unique\_name  
name: name  
schema\_id: schema\_id  
description: description  
title: title

properties:

name:  
maxLength: 128  
minLength: 1  
type: string

title:  
 maxLength: 128  
 minLength: 1  
 type: string  
description:  
 maxLength: 256  
 minLength: 1  
 type: string  
schema\_id:  
 type: string  
unique\_name:  
 type: string  
required:  
- description  
- name  
- schema\_id  
- title  
type: object  
WorkflowEvent:  
 allOf:  
 - \$ref: '#/components/schemas/WorkflowEvent\_allOf'  
 - \$ref: '#/components/schemas/WorkflowFooter'  
WorkflowEventCreate:  
 allOf:  
 - \$ref: '#/components/schemas/WorkflowEventUpdate'  
WorkflowEventUpdate:  
 example:  
 schema\_id: schema\_id  
 description: description  
 target\_id: target\_id  
 title: title  
 properties:  
 key: '{}'  
properties:  
 title:  
 type: string  
 description:  
 type: string  
 target\_id:  
 type: string  
 schema\_id:  
 type: string  
 properties:  
  
 additionalProperties:  
 type: object  
 type: object  
required:

- properties
- schema\_id
- target\_id
- title

type: object

WorkflowInstance:

allOf:

- \$ref: '#/components/schemas/WorkflowInstance\_allOf'
- \$ref: '#/components/schemas/WorkflowFooter'

WorkflowInstanceDeleteResponse:

example:

deleted\_child\_workflow\_instance\_ids:

- deleted\_child\_workflow\_instance\_ids
- deleted\_child\_workflow\_instance\_ids

properties:

deleted\_child\_workflow\_instance\_ids:

items:

type: string

type: array

type: object

WorkflowSchema:

allOf:

- \$ref: '#/components/schemas/WorkflowSchema\_allOf'
- \$ref: '#/components/schemas/WorkflowFooter'

WorkflowAccessMeta:

properties:

adapter:

\$ref: '#/components/schemas/WorkflowAccessMetaType'

runtime\_users:

items:

\$ref: '#/components/schemas/WorkflowAccessMetaType'

type: array

targets:

items:

\$ref: '#/components/schemas/WorkflowAccessMetaType'

type: array

is\_integration:

type: boolean

is\_internal:

type: boolean

type: object

WorkflowAccessMetaType:

properties:

id:

type: string

type:

type: string

version:

```

    type: string
type: object
WorkflowSchemaByTypeResponse:
  example: {}
  properties:
    view_schema:
      $ref: '#/components/schemas/WorkflowSchema'
    data_schema:
      $ref: '#/components/schemas/WorkflowSchema'
type: object
WorkflowTarget:
  allOf:
  - $ref: '#/components/schemas/WorkflowTarget_allOf'
  - $ref: '#/components/schemas/WorkflowFooter'
WorkflowDefAccessMeta:
  properties:
    is_integration:
      type: boolean
    is_internal:
      type: boolean
type: object
WorkflowTargetCreate:
  allOf:
  - $ref: '#/components/schemas/WorkflowTargetUpdate'
WorkflowTargetUpdate:
  example:
    unique_name: unique_name
    name: name
    schema_id: schema_id
    description: description
    title: title
  type: type
  properties:
    key: '{}'
  properties:
    name:
      type: string
    description:
      type: string
    title:
      type: string
    schema_id:
      type: string
  type:
    type: string
  properties:
    additionalProperties:
      type: object

```

```
    type: object
  unique_name:
    type: string
  required:
  - name
  - properties
  type: object
WorkflowMetadata_git_info:
  properties:
    target_id:
      type: string
    commit_hash:
      type: string
    comitted_by:
      type: string
    comitted_on:
      type: string
    commit_message:
      type: string
  type: object
ErrorDTO:
  properties:
    code:
      readOnly: true
      type: string
    message:
      readOnly: true
      type: string
  type: object
ManagedDeviceSiteDTO:
  example:
    templateDetails:
      - templateName: templateName
        deviceParams:
          - allowedValues: allowedValues
            displayType: displayType
            hintText: hintText
            name: name
            label: label
            type: type
            value: value
            toolTipText: toolTipText
          - allowedValues: allowedValues
            displayType: displayType
            hintText: hintText
            name: name
            label: label
            type: type
```

value: value  
toolTipText: toolTipText  
templateId: templateId  
- templateName: templateName  
deviceParams:  
- allowedValues: allowedValues  
displayType: displayType  
hintText: hintText  
name: name  
label: label  
type: type  
value: value  
toolTipText: toolTipText  
- allowedValues: allowedValues  
displayType: displayType  
hintText: hintText  
name: name  
label: label  
type: type  
value: value  
toolTipText: toolTipText  
templateId: templateId  
deviceNedId: deviceNedId  
deviceType: deviceType  
deviceInstanceId: deviceInstanceId  
deviceUsername: deviceUsername  
siteName: siteName  
siteDescription: siteDescription  
deviceInterfaces:  
- nedId: nedId  
roles:  
- roles  
- roles  
name: name  
snmp: snmp  
- nedId: nedId  
roles:  
- roles  
- roles  
name: name  
snmp: snmp  
enableSecureTunnel: enableSecureTunnel  
siteInfo:

key: siteInfo

deviceIpAddress: deviceIpAddress  
deviceSerial: deviceSerial  
modifiedOn: modifiedOn

tenantName: tenantName  
tenantDisplayName: tenantDisplayName  
tenantId: tenantId  
siteId: siteId  
devicePort: devicePort  
deviceModel: deviceModel  
subscriptionId: subscriptionId  
deviceOnboardingType: deviceOnboardingType  
deviceSecondaryPassword: deviceSecondaryPassword  
devicePassword: devicePassword  
properties:  
  templateDetails:  
    items:  
      \$ref: '#/components/schemas/ManagedDeviceTemplateDetailsDTO'  
    type: array  
  tenantId:  
    type: string  
  siteId:  
    type: string  
  siteName:  
    type: string  
  tenantName:  
    type: string  
  tenantDisplayName:  
    type: string  
  siteDescription:  
    type: string  
  subscriptionId:  
    type: string  
  deviceInstanceId:  
    type:  
string  
  deviceInterfaces:  
    items:  
      \$ref: '#/components/schemas/ManagedDeviceDeviceInterfaceDTO'  
    type: array  
  siteInfo:  
    additionalProperties:  
      type: string  
    type: object  
  deviceSerial:  
    type: string  
  deviceModel:  
    type: string  
  deviceOnboardingType:  
    type: string  
  deviceIpAddress:  
    type: string

```

devicePort:
  type: string
deviceUsername:
  type: string
devicePassword:
  type: string
deviceSecondaryPassword:
  type: string
deviceNedId:
  type: string
deviceType:
  type: string
enableSecureTunnel:
  type: string
modifiedOn:
  type: string
type: object
ManagedDeviceTemplateDetailsDTO:
  example:
    templateName: templateName
    deviceParams:
      - allowedValues: allowedValues
        displayType:
displayType
  hintText: hintText
  name: name
  label: label
  type: type
  value: value
  toolTipText: toolTipText
  - allowedValues: allowedValues
  displayType: displayType
  hintText: hintText
  name: name
  label: label
  type: type
  value: value
  toolTipText: toolTipText
  templateId: templateId
properties:
  templateId:
    type: string
  templateName:
    type: string
  deviceParams:
    items:
      $ref: '#/components/schemas/ManagedDeviceParameter'
    type: array

```



type: object

ManagedDeviceParameter:

example:

allowedValues: allowedValues

displayType: displayType

hintText: hintText

name: name

label: label

type: type

value: value

toolTipText: toolTipText

properties:

name:

type: string

hintText:

type: string

label:

type: string

type:

type: string

displayType:

type: string

allowedValues:

type: string

value:

type: string

toolTipText:

type: string

type: object

ManagedDeviceDeviceInterfaceDTO:

example:

nedId: nedId

roles:

- roles

- roles

name: name

snmp: snmp

properties:

name:

type: string

roles:

items:

type: string

type: array

snmp:

type: string

nedId:

```
    type: string
  type: object
ManagedDeviceTemplateDTO:
  example:
    sitesList:
      - sitesList
      - sitesList
    templateName: templateName
    payload: payload
    validators:
      - '{}'
      - '{}'
    tenantList:
      - tenantList
      - tenantList
    description: description
    templateId:
templateId
  properties:
    templateId:
      type: string
    templateName:
      type: string
    payload:
      type: string
    description:
      type: string
    sitesList:
      items:
        type: string
      type: array
    tenantList:
      items:
        type: string
      type: array
    validators:
      items:
        type: object
      type: array
  type: object
Error:
  properties:
    code:
      readOnly: true
      type: string
    message:
      readOnly: true
      type: string
```

type: object  
NameValue:  
example:  
  name: name  
  value: value  
properties:  
  name:  
    type: string  
  value:  
    type: string  
type: object  
StringArray:  
items:  
  type: string  
type: array  
UuidArray:  
items:  
  format: uuid  
  type: string  
type: array  
PageHeader:  
properties:  
  page:  
    format: int32  
    readOnly: true  
    type: integer  
  pageSize:  
    format: int32  
    readOnly: true  
    type: integer  
  totalItems:  
    format: int64  
    readOnly: true  
    type: integer  
  hasNext:  
    nullable: true  
    readOnly: true  
    type: boolean  
  hasPrevious:  
    nullable: true  
    readOnly: true  
    type: boolean  
  sortBy:  
    readOnly: true  
    type: string  
  sortOrder:  
    enum:  
    - asc

```
- desc
  readOnly: true
  type: string
type: object
Name:
  maxLength: 128
  minLength: 1
  type: string
Label:
  maxLength: 128
  minLength: 1
  type: string
Description:
  maxLength: 512
  minLength: 1
  type: string
Product_allOf:
  properties:
    id:
      format: uuid
      readOnly: true
      type:
string
ProductsPage_allOf:
  properties:
    contents:
      items:
        $ref: '#/components/schemas/Product'
      type: array
Offer_allOf:
  properties:
    id:
      format: uuid
      type: string
OffersPage_allOf:
  properties:
    contents:
      items:
        $ref: '#/components/schemas/Offer'
      type: array
Device_allOf:
  properties:
    id:
      type: string
    userId:
      format: uuid
      type: string
    providerId:
```

format: uuid  
type: string  
createdOn:  
format: date-time  
type: string  
modifiedOn:  
format: date-time  
type: string  
DeviceCreate\_allOf:  
properties:  
serviceId:  
type: string  
subscriptionId:  
type: string  
tenantId:  
format: uuid  
type: string  
required:  
- tenantId  
DevicesPage\_allOf:  
properties:  
contents:  
items:  
\$ref: '#/components/schemas/Device'  
type: array  
DeviceTemplate\_allOf:  
properties:  
id:  
format: uuid  
readOnly: true  
type: string  
userId:  
format: uuid  
readOnly: true  
type: string  
createdOn:  
format: date-time  
readOnly: true  
type: string  
ServicesPage\_allOf:  
properties:  
contents:  
items:  
\$ref: '#/components/schemas/Service'  
type: array  
SiteCreate\_allOf:  
properties:  
tenantId:

```

    format: uuid
    type: string
  deviceIds:
    items:
      type: string
    type: array
  required:
  - deviceIds
  - tenantId
  SitesPage_allOf:
    properties:
      contents:
        items:
          $ref: '#/components/schemas/Site'
        type: array
  Tenant_allOf:
    properties:
      id:

format: uuid
  readOnly: true
  type: string
  createdOn:
    format: date-time
    readOnly: true
    type: string
  modifiedOn:
    format: date-time
    readOnly: true
    type: string
  suspended:
    readOnly: true
    type: boolean
  TenantsPage_allOf:
    properties:
      contents:
        items:
          $ref: '#/components/schemas/Tenant'
        type: array
  User_allOf:
    properties:
      id:
        format: uuid
        readOnly: true
        type: string
      status:
        type: string
      deleted:

```

```
    type: string
UserCreate_allOf:
  properties:
    username:
      type: string
    password:
      format: password
      type: string
  required:
  - password
UsersPage_allOf:
  properties:
    contents:
      items:
        $ref: '#/components/schemas/User'
      type: array
Workflow_allOf:
  properties:
    id:
      type: string
    schema_id:
      type: string
    name:
      type: string
    title:
      type: string
    type:
      type: string
    base_type:
      type: string
    object_type:
      type: string
    properties:
      additionalProperties:
        type: object
      type: object
    valid:
      type: boolean
    workflow_valid:
      type: boolean
    categories:
      items:
        type: string
      type: array
    metadata:
      $ref: '#/components/schemas/WorkflowMetadata'
    status:
      additionalProperties:
```

```
    type: object
  type: object
permissions:
  items:
    type: string
  type: array
variables:
  items:
    $ref: '#/components/schemas/WorkflowVariable'
  type: array
actions:
  items:
    $ref: '#/components/schemas/WorkflowAction'
  type: array
WorkflowVariable_allOf:
  properties:
    id:
      type: string
    type:
      type: string
    base_type:
      type: string
    schema_id:
      type: string
    object_type:
      type: string
  properties:
    additionalProperties:
      type: object
      type: object
    data_type:
      type: string
    scope:
      type: string
WorkflowCategory_allOf:
  properties:
    id:
      type: string
    schema_id:
      type: string
    name:
      type: string
    title:
      type: string
  type:
    type: string
  base_type:
    type: string
```



description:  
  type: string  
category\_type:  
  type: string  
object\_type:  
  type: string  
WorkflowEvent\_allOf:  
  properties:  
    id:  
      type: string  
    name:  
      type:  
string  
  title:  
    type: string  
  type:  
    type: string  
  base\_type:  
    type: string  
  schema\_id:  
    type: string  
  properties:  
    additionalProperties:  
      type: object  
    type: object  
WorkflowInstance\_allOf:  
  properties:  
    id:  
      type: string  
    definition\_id:  
      type: string  
    name:  
      type: string  
    schema\_id:  
      type: string  
    version:  
      type: string  
  type:  
    type: string  
  base\_type:  
    type: string  
  properties:  
    additionalProperties:  
      type: object  
    type: object  
  actions:  
    items:  
      \$ref: '#/components/schemas/WorkflowAction'

type: array  
variables:  
items:  
  \$ref: '#/components/schemas/WorkflowVariable'  
type: array  
status:  
additionalProperties:  
  type: object

type: object  
started\_on:  
  type: string  
ended\_on:  
  type: string

WorkflowSchema\_allOf:

properties:  
id:  
  type: string  
schema\_id:  
  type: string  
name:  
  type: string  
title:  
  type: string  
description:  
  type: string  
type:  
  type: string  
base\_type:  
  type: string  
version:  
  type: string  
invisible:  
  type: boolean  
inherits:  
  type: string  
access\_meta:  
  \$ref: '#/components/schemas/WorkflowAccessMeta'  
variable\_schema:  
  additionalProperties:  
    type: object  
  type: object  
property\_schema:  
  additionalProperties:  
    type: object  
  type: object  
output\_schema:  
  additionalProperties:

```
    type: object
  type: object
  view_config:
    additionalProperties:

type: object
  type: object
  attributes:
    additionalProperties:
      type: object
    type: object
WorkflowTarget_allOf:
  properties:
    id:
      type: string
    schema_id:
      type: string
    adapter_id:
      type: string
    name:
      type: string
    title:
      type: string
    type:
      type: string
    base_type:
      type: string
    properties:
      additionalProperties:
        type: object
      type: object
    valid:
      type: boolean
    def_access_meta:
      $ref: '#/components/schemas/WorkflowDefAccessMeta'
  securitySchemes:
    BearerAuth:
      scheme: bearer
      type: http

Found in path(s):
* /opt/cola/permits/1118213626_1610574911.69/0/msx-platform-go-client-1-0-4-zip/msx-platform-go-client-1.0.4/api/openapi.yaml
```

# 1.539 vfsgen 0.0.0-20181202132449-6a9ea43bcacd

## 1.539.1 Available under license :

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## 1.540 prometheus-client 1.2.1

### 1.540.1 Available under license :

Prometheus instrumentation library for Go applications

Copyright 2012-2015 The Prometheus Authors

This product includes software developed at SoundCloud Ltd. (<http://soundcloud.com/>).

The following components are included in this product:

perks - a fork of <https://github.com/bmizerany/perks>

<https://github.com/beorn7/perks>

Copyright 2013-2015 Blake Mizerany, Bjrn Rabenstein

See <https://github.com/beorn7/perks/blob/master/README.md> for license details.

Go support for Protocol Buffers - Google's data interchange format

<http://github.com/golang/protobuf/>

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See source code for license details.

Support for streaming Protocol Buffer messages for the Go language (golang).

[https://github.com/matttproud/golang\\_protobuf\\_extensions](https://github.com/matttproud/golang_protobuf_extensions)

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## 1.543 survey 2.0.5

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Package pipe implements unix-like pipelines for Go.

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## 1.567 go-junit-report 0.9.1

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## 1.568 metrics 4.1.16

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## 1.582 pam 1.3.1-5

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```
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```

```
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Ty Coon, President of Vice
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 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/ServiceManagerBridge.java
```

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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ForwardingBlockingDeque.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ForwardingNavigableSet.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/DescendingImmutableSortedSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/AllEqualOrdering.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/TreeTraverser.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ForwardingImmutableSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/SortedMultisetBridge.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/FilteredEntryMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ForwardingImmutableMap.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/TransformedListIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ForwardingDeque.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/FilteredKeyListMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/UnmodifiableSortedMultiset.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/CompactHashMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/CompactLinkedHashMap.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/TreeRangeMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/FilteredKeySetMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/TransformedIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/AbstractNavigableMap.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/FilteredMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/EvictingQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ForwardingNavigableMap.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/AbstractMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/RangeMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/RegularImmutableAsList.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ForwardingImmutableList.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableEnumMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/FilteredEntrySetMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/FilteredSetMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/DescendingMultiset.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/CompactHashSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/CompactLinkedHashSet.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Verify.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/HashingInputStream.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/VerifyException.java

\*

/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/CharSequenceReader.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/Runnables.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/AbstractTable.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/FilteredMultimapValues.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/eventbus/SubscriberExceptionContext.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/eventbus/SubscriberExceptionHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Utf8.java

\*

/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/reflect/TypeVisitor.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java

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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/xml/XmlEscapers.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/html/HtmlEscapers.java



```

* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/Splitter.java
*
/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/io/ByteArrayDataInput.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/Service.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/DenseImmutableTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/AbstractIdleService.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/primitives/SignedBytes.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
*
/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/reflect/TypeResolver.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/io/LineProcessor.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/MapMaker.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/SettableFuture.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/net/HostSpecifier.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/annotations/GwtCompatible.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/net/UrlEscapers.java
*
/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/cache/CacheBuilder.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/SparseImmutableTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/annotations/GwtIncompatible.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/net/InternetDomainName.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/escape/Escapers.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-

```

jar/com/google/common/util/concurrent/ForwardingFuture.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/cache/ReferenceEntry.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/ForwardingFluentFuture.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/Cut.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/escape/ArrayBasedEscaperMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/cache/LocalCache.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/base/Platform.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/primitives/UnsignedBytes.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/io/ByteProcessor.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/RegularImmutableTable.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/Callables.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/JdkFutureAdapters.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/AbstractService.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/escape/ArrayBasedCharEscaper.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/escape/Platform.java

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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/PredecessorsFunction.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/MutableGraph.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/SuccessorsFunction.java

\*

/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/MutableNetwork.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/TopKSelector.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/Network.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/ImmutableGraph.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/Graphs.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/ImmutableNetwork.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/Graph.java

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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/GwtTransient.java

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```
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/JdkPattern.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/CommonMatcher.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/PatternCompiler.java
*
/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/CommonPattern.java
```

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 * the License.
 */
```

```
/**
 * Holder for web specializations of methods of { @code Shorts}. Intended to be empty for regular
 * version.
 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
```

jar/com/google/common/primitives/ShortsMethodsForWeb.java  
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 */
```

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```
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/ExecutionSequencer.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/hash/ImmutableSupplier.java
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 */
/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
 * following header:
 *
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 * hereby
```

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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Hashing.java

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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/LineReader.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/DirectExecutor.java

\*

/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/HashBiMap.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Objects.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ListenableFuture.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/eventbus/EventBus.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Supplier.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Suppliers.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/eventbus/AllowConcurrentEvents.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/LittleEndianDataInputStream.java

\*

/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/AbstractFuture.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/LineBuffer.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/LittleEndianDataOutputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/FinalizableReferenceQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/FinalizableReference.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/eventbus/DeadEvent.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/Resources.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/primitives/Primitives.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Function.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/AbstractIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/CharStreams.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Predicate.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Preconditions.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Charsets.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Interners.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/eventbus/AsyncEventBus.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/FinalizableSoftReference.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/CountingInputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/CountingOutputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/Files.java

\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Functions.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/eventbus/Subscribe.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/Closeables.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/MultiInputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/FinalizablePhantomReference.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/Flushables.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/eventbus/package-info.java

\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ExecutionList.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/EnumMultiset.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Predicates.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/ByteStreams.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Defaults.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/FinalizableWeakReference.java

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```

* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/AggregateFuture.java
*
/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/io/AppendableWriter.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/FuturesGetChecked.java
*
/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/Futures.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/reflect/TypeToken.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/AbstractTransformFuture.java
*
/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/CaseFormat.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/io/PatternFilenameFilter.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/escape/CharEscaper.java
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*/
/**
* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
* version.
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/ExtraObjectsMethodsForWeb.java
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Found in path(s):

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jar/com/google/common/collect/SortedMultiset.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/SortedMultisets.java
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express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/
/**
* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
* under GWT but with a slightly different signature.
*
* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler
wouldn't recognize
* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/Partially.java

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express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/
/*
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
* following header:
*

```

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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/base/SmallCharMatcher.java

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-

jar/com/google/common/hash/package-info.java

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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/AsyncCallable.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/ConsumingQueueIterator.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/io/ReaderInputStream.java

\*

/\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/CombinedFuture.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/InterruptibleTask.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/hash/LittleEndianByteArray.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/hash/FarmHashFingerprint64.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/Platform.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/AggregateFutureState.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/hash/MacHashFunction.java

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jar/com/google/common/collect/MultimapBuilder.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/AbstractSequentialIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/UnmodifiableListIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/ForwardingListMultimap.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/RowSortedTable.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/ForwardingSetMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/ForwardingSortedSetMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/SortedMapDifference.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-

jar/com/google/common/collect/ForwardingImmutableCollection.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-

jar/com/google/common/collect/MinMaxPriorityQueue.java

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jar/com/google/common/cache/CacheStats.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-

jar/com/google/common/hash/BloomFilter.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-

jar/com/google/common/primitives/ParseRequest.java

\*

/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-

jar/com/google/common/math/package-info.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-

jar/com/google/common/collect/RegularContiguousSet.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-

jar/com/google/common/hash/Crc32cHashFunction.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-

jar/com/google/common/hash/Hashing.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-

jar/com/google/common/cache/ForwardingCache.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-

jar/com/google/common/util/concurrent/AbstractScheduledService.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-

jar/com/google/common/util/concurrent/AsyncFunction.java

\*

/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-

jar/com/google/common/cache/RemovalNotification.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-

jar/com/google/common/hash/HashCode.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-

jar/com/google/common/base/PairwiseEquivalence.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/cache/AbstractCache.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/cache/AbstractLoadingCache.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/net/HostAndPort.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/cache/RemovalListener.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/cache/CacheBuilderSpec.java  
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/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/TreeRangeSet.java  
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jar/com/google/common/reflect/Types.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/cache/Weigher.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/AbstractSortedMultiset.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/cache/RemovalCause.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/math/DoubleUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/RegularImmutableMultiset.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/net/MediaType.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/net/HttpHeaders.java



\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
 jar/com/google/common/hash/AbstractStreamingHasher.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
 jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java  
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 jar/com/google/common/collect/BoundType.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
 jar/com/google/common/base/Optional.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
 jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java  
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 /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
 jar/com/google/common/hash/Funnel.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
 jar/com/google/common/math/LongMath.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
 jar/com/google/common/hash/Hasher.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
 jar/com/google/common/math/MathPreconditions.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
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 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
 jar/com/google/common/hash/MessageDigestHashFunction.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
 jar/com/google/common/cache/package-info.java  
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 jar/com/google/common/cache/LoadingCache.java  
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 jar/com/google/common/math/IntMath.java  
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 jar/com/google/common/hash/HashFunction.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
 jar/com/google/common/util/concurrent/ExecutionError.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
 jar/com/google/common/primitives/UnsignedLongs.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
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 jar/com/google/common/primitives/UnsignedInts.java  
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 jar/com/google/common/math/DoubleMath.java  
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 jar/com/google/common/collect/DescendingImmutableSortedMultiset.java  
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jar/com/google/common/reflect/TypeParameter.java  
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jar/com/google/common/collect/Queues.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/cache/RemovalListeners.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/hash/Murmur3\_32HashFunction.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/UncheckedExecutionException.java  
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jar/com/google/common/primitives/UnsignedInteger.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
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jar/com/google/common/hash/HashingOutputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/hash/Murmur3\_128HashFunction.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/hash/AbstractHasher.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/EmptyContiguousSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/hash/BloomFilterStrategies.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/cache/CacheLoader.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/Uninterruptibles.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/cache/Cache.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/AtomicLongMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/base/FunctionalEquivalence.java  
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express
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* the License.
*/
/**
* Holder for web specializations of methods of { @code Doubles}. Intended to be empty for regular
* version.
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/primitives/DoublesMethodsForWeb.java
```

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* limitations under the License.
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ImmutableSetMultimap.java
```

```
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ImmutableClassToInstanceMap.java
```

```
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
```

```
*
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/SingletonImmutableTable.java
```

```
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
```

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jar/com/google/common/collect/ImmutableAsList.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/ComparisonChain.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/ImmutableSortedMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/ForwardingTable.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/ComputationException.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/DiscreteDomain.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/RegularImmutableList.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/AbstractIndexedListIterator.java

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/\*\*  
\* Holder for web specializations of methods of { @code Floats }. Intended to be empty for regular  
\* version.  
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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/primitives/FloatsMethodsForWeb.java

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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableMapKeySet.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Platform.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/TreeBasedTable.java

\*

/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableEntry.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableCollection.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/EmptyImmutableListMultimap.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Tables.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Table.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableSortedSet.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableBiMap.java

\*

/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Collections2.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-

jar/com/google/common/collect/Serialization.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/Range.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/UnmodifiableIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/ImmutableListMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/StandardRowSortedTable.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/HashBasedTable.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/ImmutableMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/ImmutableMultimap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/ImmutableMapValues.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/CollectPreconditions.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/RegularImmutableMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/PeekingIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/ImmutableMultiset.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/RegularImmutableBiMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/ImmutableMapEntrySet.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/StandardTable.java  
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```
*/
/**
 * Holder for web specializations of methods of { @code Ints}. Intended to be empty for regular
 * version.
 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/primitives/IntsMethodsForWeb.java
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```
*/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/Strings.java
```

```
*/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/Ascii.java
```

```
*/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/Atomics.java
```

```
*/
/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/base/Equivalence.java
```

```
*/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
```

```
*/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ContiguousSet.java
```

```
*/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/SortedLists.java
```

```
*/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
```

```
*/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/annotations/package-info.java
```

```
*/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/annotations/Beta.java
```

\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/Monitor.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/net/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ListeningExecutorService.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/primitives/package-info.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/eventbus/SubscriberRegistry.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/math/Quantiles.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/eventbus/Dispatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/eventbus/Subscriber.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ListenerCallQueue.java  
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jar/com/google/common/primitives/Platform.java

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jar/com/google/common/io/MultiReader.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/ListenableFutureTask.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/base/CharMatcher.java

\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/primitives/Shorts.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/base/internal/Finalizer.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/primitives/Ints.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-

jar/com/google/common/base/Converter.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/escape/Escaper.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/FluentIterable.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/io/FileBackedOutputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/SequentialExecutor.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/thirdparty/publicsuffix/TrieParser.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/net/InetAddresses.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/primitives/Floats.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/primitives/Doubles.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/primitives/Longs.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/escape/UnicodeEscaper.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/net/PercentEscaper.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/primitives/Booleans.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/base/Stopwatch.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/primitives/Bytes.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/base/Joiner.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/primitives/Chars.java  
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jar/com/google/common/primitives/ImmutableIntArray.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/primitives/ImmutableDoubleArray.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/ForwardingLock.java  
\*

/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/hash/AbstractHashFunction.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/ForwardingCondition.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/primitives/ImmutableLongArray.java

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jar/com/google/common/util/concurrent/ServiceManager.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/cache/LongAddables.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/reflect/Element.java  
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/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/hash/LongAddables.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/math/StatsAccumulator.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-

jar/com/google/common/collect/CartesianList.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/hash/ChecksumHashFunction.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/io/BaseEncoding.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/FilteredKeyMultimap.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/io/CharSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/io/ByteSink.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/math/PairedStatsAccumulator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/ListenableScheduledFuture.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/escape/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/reflect/ClassPath.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/reflect/TypeToInstanceMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/reflect/MutableTypeToInstanceMap.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/io/CharSink.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/html/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/hash/AbstractByteHasher.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/SmoothRateLimiter.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/xml/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/reflect/Invokable.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/cache/LongAddable.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/reflect/package-info.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/hash/LongAddable.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/io/ByteSource.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/reflect/Parameter.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/Closer.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/SipHashFunction.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/StandardSystemProperty.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableRangeMap.java

\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/math/LinearTransformation.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableRangeSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/math/PairedStats.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/reflect/AbstractInvocationHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/RateLimiter.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/math/Stats.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/FileWriteMode.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/reflect/TypeCapture.java

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\* This following method is a modified version of one found in

\* <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30>

\* which contained the following notice:

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\* Other contributors include Andrew Wright, Jeffrey Hayes, Pat Fisher, Mike Judd.  
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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/MoreExecutors.java  
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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/hash/LongAdder.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/hash/Striped64.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/cache/Striped64.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/cache/LongAdder.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/util/concurrent/AtomicDoubleArray.java  
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/\*\*

\* Returns an array containing all of the elements in the specified collection. This method

```
* returns the elements in the order they are returned by the collection's iterator. The returned
* array is "safe" in that no references to it are maintained by the collection. The caller is
* thus free to modify the returned
array.
*
* <p>This method assumes that the collection size doesn't change while the method is running.
*
* <p>TODO(kevinb): support concurrently modified collections?
*
* @param c the collection for which to return an array of elements
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ObjectArrays.java
```

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

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
```

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```
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/StandardMutableValueGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java
*
/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/DirectedNetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/MapRetrievalCache.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/UndirectedNetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/EdgesConnecting.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/StandardNetwork.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/AbstractGraph.java
*
/opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/GraphConstants.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/ValueGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/ValueGraphBuilder.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/graph/AbstractValueGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
```



jar/com/google/common/graph/ElementOrder.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/graph/ForwardingNetwork.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/graph/AbstractDirectedNetworkConnections.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/graph/StandardValueGraph.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/graph/GraphBuilder.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/graph/DirectedGraphConnections.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/graph/EndpointPairIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/graph/StandardMutableGraph.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/graph/StandardMutableNetwork.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/graph/AbstractNetwork.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/graph/ForwardingGraph.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/graph/NetworkConnections.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/graph/MutableValueGraph.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/graph/MapIteratorCache.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/graph/EndpointPair.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/graph/ForwardingValueGraph.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/graph/ImmutableValueGraph.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/collect/Comparators.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/graph/AbstractGraphBuilder.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
jar/com/google/common/graph/MultiEdgesConnecting.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/RangeGwtSerializationDependencies.java

\*  
/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/UndirectedGraphConnections.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/GraphConnections.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/NetworkBuilder.java

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- \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/SortedIterables.java
- \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/RangeSet.java
- \*
- /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/AbstractRangeSet.java
- \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Count.java
- \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableSortedMultiset.java
- \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ForwardingSortedMultiset.java
- \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/RegularImmutableSortedMultiset.java
- \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/SortedIterable.java
- \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java

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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/BaseGraph.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/Traverser.java  
\*

/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ObjectCountLinkedHashMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/AbstractBaseGraph.java

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\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/CompactHashing.java  
\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/graph/IncidentEdgeSet.java

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jar/com/google/common/collect/IndexedImmutableSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/BaseImmutableMultimap.java
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 */
```

```
/*
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 * and released to the public domain, as explained at
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 *
 * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
 * java.util.HashMap
 * class.
 */
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/Striped.java

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

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\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ForwardingSortedMap.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Ordering.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/MutableClassToInstanceMap.java

\*

/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ExplicitOrdering.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ClassToInstanceMap.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Multiset.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Interner.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/LinkedHashMultimap.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/Sets.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/AbstractMapBasedMultiset.java

\*

/opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ForwardingSortedSet.java

\* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-

jar/com/google/common/collect/ForwardingMultimap.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
 jar/com/google/common/collect/ForwardingObject.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
 jar/com/google/common/collect/AbstractBiMap.java  
 \* /opt/ws\_local/PERMITS\_SQL/1073949279\_1595505200.06/0/guava-29-0-android-sources-  
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 jar/com/google/common/collect/UsingToStringOrdering.java  
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 jar/com/google/common/collect/NullsFirstOrdering.java  
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jar/com/google/common/collect/AbstractMapEntry.java

# 1.595 base-files 10.3+deb10u8

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Version 3, 29 June 2007

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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License.

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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

That's all there is to it!

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Version 3, 29 June 2007

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## 1.596 httpcomponents-core 4.4.13

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## 1.597 lombok 1.18.12

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## 1.600 asm 5.0.3

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```
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```
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/TypePath.java
```

\* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/TypeReference.java  
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/\*\*

\* Creates a new {@link AnalyzerAdapter}. *Subclasses must not use this*

\* constructor*.* Instead, they must use the

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

\* version.

\*

\* @param owner

\*

the owner's class name.

\* @param access

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

\* @param name

\* the method's name.

\* @param desc

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

```
* @param mv
*     the method visitor to which this adapter delegates calls. May
*     be <tt>null</tt>.
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/
```

Found in path(s):

```
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
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```

```
*/
```

```
/**
```

```
* Creates a new { @link GeneratorAdapter}. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the
* { @link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
* version.
*
```

```

* @param mv
*     the
method visitor to which this adapter delegates calls.
* @param access
*     the method's access flags (see { @link Opcodes }).
* @param name
*     the method's name.
* @param desc
*     the method's descriptor (see { @link Type Type }).
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/

```

Found in path(s):

```

* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
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```



```

/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 *     a reference to the annotated type. See {@link TypeReference}.
 * @param typePath
 *     the path to the annotated type argument, wildcard bound, array
 *     element type, or static inner type within 'typeRef'. May be
 *     <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 * @param start
 *     the first instructions corresponding to the continuous ranges
 *     that make the scope of this local variable (inclusive).
 * @param end
 *     the last instructions corresponding to the continuous ranges
 *     that make the scope of this local variable (exclusive). This
 *     array must have the same size as the 'start' array.
 * @param index
 *     the local variable's index in each range. This array must have
 *     the same size as the 'start' array.
 * @param desc
 *     the class descriptor of
the annotation class.
 */

```

Found in path(s):

```

* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
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/**
 * Creates a new JSRInliner. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * { @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
 * version.
 *
 * @param mv
 *
 * the <code>MethodVisitor</code> to send the resulting inlined
 * method code to (use <code>>null</code> for none).
 * @param access
 * the method's access flags (see { @link Opcodes}). This
 * parameter also indicates if the method is synthetic and/or
 * deprecated.
 * @param name
 * the method's name.
 * @param desc
 * the method's descriptor (see { @link Type}).
 * @param signature
 * the method's signature. May be <tt>null</tt>.
 * @param exceptions
 * the internal names of the method's exception classes (see
 * { @link Type#getInternalName() getInternalName}). May be
 * <tt>null</tt>.
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

```

Found in path(s):

```

* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
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jar/org/objectweb/asm/signature/package.html  
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jar/org/objectweb/asm/tree/analysis/package.html  
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\*/

/\*\*

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

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

Found in path(s):

```
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```
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* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
```

```
jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/xml/SAXAdapter.java
*
/opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/xml/ASMContentHandler.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/xml/SAXFieldAdapter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
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Found in path(s):

```
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/util/ASMifiable.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/util/Textifiable.java
```

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\* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
jar/org/objectweb/asm/optimizer/ClassOptimizer.java  
\* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
jar/org/objectweb/asm/tree/analysis/Value.java  
\* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/Label.java  
\*  
/opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/Item.java  
\* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
jar/org/objectweb/asm/commons/StaticInitMerger.java  
\* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java  
\* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
jar/org/objectweb/asm/AnnotationVisitor.java  
\* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
jar/org/objectweb/asm/commons/RemappingMethodAdapter.java  
\* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
jar/org/objectweb/asm/tree/analysis/Frame.java  
\* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/MethodVisitor.java  
\* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
jar/org/objectweb/asm/tree/analysis/BasicValue.java  
\*  
/opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/ClassVisitor.java  
\* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/ClassWriter.java  
\* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
jar/org/objectweb/asm/commons/Remapper.java  
\* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
jar/org/objectweb/asm/tree/VarInsnNode.java  
\* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
jar/org/objectweb/asm/commons/LocalVariablesSorter.java  
\* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-

```

jar/org/objectweb/asm/tree/AnnotationNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/tree/TypeInsnNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/Edge.java
*
/opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/commons/Method.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/tree/MethodNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/tree/FrameNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/Frame.java
*
/opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/tree/ParameterNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/tree/InnerClassNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/ClassReader.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/ByteVector.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/commons/RemappingClassAdapter.java
*
/opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/optimizer/JarOptimizer.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/optimizer/Shrinker.java

```

\* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/tree/MethodInsnNode.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/commons/TryCatchBlockSorter.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/util/TraceAnnotationVisitor.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/tree/analysis/Subroutine.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/tree/TryCatchBlockNode.java  
 \*  
 /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/util/CheckMethodAdapter.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/LabelNode.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/Context.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/tree/analysis/Interpreter.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/tree/analysis/SmallSet.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/optimizer/Constant.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/tree/analysis/SourceValue.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/MethodWriter.java  
 \*  
 /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/IntInsnNode.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/Type.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/InsnList.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/optimizer/MethodOptimizer.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/tree/InsnNode.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/util/CheckClassAdapter.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/Handler.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/util/CheckFieldAdapter.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/tree/analysis/Analyzer.java  
 \*  
 /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/FieldVisitor.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/FieldNode.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/tree/LdcInsnNode.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/tree/LineNumberNode.java

\* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/util/TraceSignatureVisitor.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/AnnotationWriter.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/util/TraceClassVisitor.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/util/CheckAnnotationAdapter.java  
 \*  
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 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
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 jar/org/objectweb/asm/commons/TableSwitchGenerator.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/signature/SignatureVisitor.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/tree/AbstractInsnNode.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/commons/RemappingFieldAdapter.java  
 \*  
 /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/commons/CodeSizeEvaluator.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/util/CheckSignatureAdapter.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/tree/InsnNode.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/tree/analysis/AnalyzerException.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/FieldWriter.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/Handle.java  
 \*  
 /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-  
 jar/org/objectweb/asm/commons/AdviceAdapter.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/Attribute.java  
 \* /opt/cola/permits/1135840046\_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/Opcodes.java

```
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/util/TraceFieldVisitor.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/util/ASMifier.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/util/Printer.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/optimizer/NameMapping.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
*
/opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/tree/FieldInsnNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/tree/JumpInsnNode.java
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/commons/InstructionAdapter.java
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```
Found in path(s):
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-
jar/org/objectweb/asm/optimizer/shrink.properties
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/shrink-
writer.properties
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/shrink-
resize.properties
*
/opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/shrink-
signatures.properties
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/shrink-
annotations.properties
* /opt/cola/permits/1135840046_1613613019.19/0/asm-5-0-3-sources-7-jar/org/objectweb/asm/optimizer/shrink-
frames.properties
```

## 1.601 reactive-streams 1.0.3

## 1.601.1 Available under license :

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```
* /opt/cola/permits/1135840663_1613613063.73/0/reactive-streams-1-0-3-sources-3-
jar/org/reactivestreams/Publisher.java
* /opt/cola/permits/1135840663_1613613063.73/0/reactive-streams-1-0-3-sources-3-
jar/org/reactivestreams/FlowAdapters.java
*
/opt/cola/permits/1135840663_1613613063.73/0/reactive-streams-1-0-3-sources-3-
jar/org/reactivestreams/Processor.java
* /opt/cola/permits/1135840663_1613613063.73/0/reactive-streams-1-0-3-sources-3-
jar/org/reactivestreams/Subscription.java
* /opt/cola/permits/1135840663_1613613063.73/0/reactive-streams-1-0-3-sources-3-
jar/org/reactivestreams/Subscriber.java
```

## 1.602 commons-logging 1.2

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```

Found in path(s):

\* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/LogFactory.java

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\* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/AvalonLogger.java

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\* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/WeakHashtable.java

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Found in path(s):

\* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-  
jar/org/apache/commons/logging/package.html

\* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-  
jar/org/apache/commons/logging/impl/package.html

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Found in path(s):

\* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-  
jar/org/apache/commons/logging/LogConfigurationException.java

\* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-  
jar/org/apache/commons/logging/impl/Log4JLogger.java

\* /opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-  
jar/org/apache/commons/logging/impl/LogFactoryImpl.java

\*

/opt/cola/permits/1135840457\_1613613080.13/0/commons-logging-1-1-sources-9-  
jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java



```
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/SimpleLog.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/Jdk14Logger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/LogSource.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/NoOpLog.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/LogKitLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/Log.java
```

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Found in path(s):

```
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
jar/org/apache/commons/logging/impl/ServletContextCleaner.java
```

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*/
/**
* This is a special exception that is used to stop parsing when
* search for an element. For instance, when searching
* for xml:stylesheet
* PIs, it is used to stop the parse once the document element is found.
* @see StylesheetPIHandler
* @xsl.usage internal
*/
```

Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/utils/StopParseException.java
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```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/transformer/QueuedEvents.java
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/XslAttribute.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
```

jar/org/apache/xml/dtm/ref/NodeLocator.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToStream.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/runtime/MessageHandler.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/dom/KeyIndex.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/ElemDesc.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/templates/ElemForEach.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xpath/patterns/ContextMatchStepPattern.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xpath/res/XPATHErrorResources\_zh.java  
 \*  
 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xpath/functions/FuncBoolean.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/util/NodeSetType.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/CurrentCall.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/trax/TransformerHandlerImpl.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/When.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/util/SecuritySupport.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xpath/axes/WalkingIteratorSorted.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/templates/ElemWhen.java  
 \*  
 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/serializer/utils/SerializerMessages\_ja.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/utils/StylesheetPIHandler.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xpath/functions/FuncSubstring.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/trax/TrAXFilter.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xpath/functions/FuncConcat.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/serializer/utils/SerializerMessages\_zh\_CN.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage\_ko.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xpath/functions/Function.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-

jar/org/apache/xalan/xsltc/trax/XSLTCSOURCE.java  
\*  
/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/axes/AttributeIterator.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xml/Utils/StringToIntTable.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/dom/LoadDocument.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/runtime/ObjectFactory.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/transformer/NumeratorFormatter.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xml/serializer/Utils/SerializerMessages\_hu.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/runtime/SecuritySupport.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage\_zh.java  
\*  
/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Equals.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/Pattern.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/processor/ProcessorExsltFuncResult.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/DOMEnhancedForDTM.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xml/serializer/SecuritySupport.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/dom/MatchingIterator.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/functions/FuncNot.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/processor/XSLTAttributeDef.java  
\*  
/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xml/Utils/StringToStringTableVector.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/If.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/dom/ObjectFactory.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xml/serializer/SerializerTraceWriter.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Lt.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/Utils/PrefixResolver.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/res/XSLTErrorResources\_en.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xml/serializer/ToTextSAXHandler.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/StringArrayWrapper.java

\*

/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Choose.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemFallback.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/XalanProperties.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncUnparsedEntityURI.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/KeyIterator.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/DOM2Helper.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/Hashtable.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/UnionIterator.java

\*

/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/NthIterator.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Stylesheet.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources\_sk.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XSLTC.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessage\_pt\_BR.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLMessages.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNodeProxy.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/StartsWithCall.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ElemContext.java

\*

/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/XPathProcessorException.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/NodeCounterGenerator.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage\_zh\_TW.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources\_he.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncRound.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-

jar/org/apache/xalan/xsltc/compiler/util/MethodGenerator.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/IntExpr.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/Fallback.java  
 \*  
 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/runtime/ErrorMessageMessages\_ja.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/Utils/DOMOrder.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/LangCall.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/extensions/ExtensionsTable.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Minus.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/Utils/res/CharArrayWrapper.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/CastExpr.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/runtime/ErrorMessageMessages\_pl.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/extensions/ExtensionNamespaceSupport.java  
 \*  
 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/Utils/ObjectFactory.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/TransletException.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/Utils/StringBufferPool.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/And.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/serializer/ToSAXHandler.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xpath/res/XPATHErrorResources\_ca.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/res/XSLTErrorResources\_pl.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/serializer/Utils/SerializerMessages\_zh\_TW.java  
 \*  
 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/serializer/Utils/SerializerMessages.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/templates/AVTPartXPath.java  
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jar/org/apache/xml/utils/FastStringBuffer.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xml/dtm/ref/sax2dtm/SAX2DTM2.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xml/dtm/ref/CustomStringPool.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/dom/DOMWSFilter.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/extensions/ExpressionContext.java  
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/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/functions/FunctionDef1Arg.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xpath/axes/OneStepIterator.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
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\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
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\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
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\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
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\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncTranslate.java  
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 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
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 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/serialize/Serializer.java  
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 jar/org/apache/xpath/jaxp/XPathFactoryImpl.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/Arg.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
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 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/trace/ExtensionEvent.java  
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 jar/org/apache/xalan/templates/ElemUnknown.java  
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 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/util/ReferenceType.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/Redirect.java  
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 jar/org/apache/xpath/domapi/XPathExpressionImpl.java  
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 jar/org/apache/xml/serializer/utils/SerializerMessages\_sl.java  
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 jar/org/apache/xalan/transformer/MsgMgr.java  
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 jar/org/apache/xalan/xsltc/compiler/XslElement.java  
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jar/org/apache/xml/serializer/AttributesImplSerializer.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/Filter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
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/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/VariableSafeAbsRef.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorText.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources\_fr.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExpressionVisitor.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/AVTPartSimple.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToUnknownStream.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/NodeSortRecordFactGenerator.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/OutlineableChunkEnd.java  
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/opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/CharInfo.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources\_sl.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LiteralAttribute.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/jaxp/XPathImpl.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources\_zh.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/NameCall.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Comment.java  
\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-

jar/org/apache/xalan/xsltc/runtime/ErrorMessage\_zh.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/templates/AbsPathChecker.java  
 \*  
 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/ExpressionNode.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xpath/functions/FuncSystemProperty.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/TransletOutput.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xpath/functions/FuncExtFunctionAvailable.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/res/XSLTErrorResources\_es.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/templates/StylesheetComposed.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage\_it.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xpath/domapi/XPathNSResolverImpl.java  
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 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xpath/res/XPATHErrorResources\_zh\_TW.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/Util.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/util/NumberType.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xpath/functions/FunctionOneArg.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/ElementAvailableCall.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xpath/compiler/XPathDumper.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/templates/VarNameCollector.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/processor/ProcessorCharacters.java  
 \*  
 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/extensions/ExtensionHandlerGeneral.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Gte.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/serializer/EmptySerializer.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xpath/axes/NodeSequence.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/serializer/utils/SerializerMessages\_it.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/util/JavaCupRedirect.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-

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jar/org/apache/xml/dtm/ref/DTMDefaultBaseTraversers.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/util/Type.java
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/util/AttributeSetMethodGenerator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/objects/XStringForChars.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/dom/DOMBuilder.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/XPathFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/NodeInfo.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/ProcessorDecimalFormat.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/transformer/XSLInfiniteLoopException.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/utils/SerializerMessages_ko.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/Mode.java
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/DOMSerializer.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/templates/OutputProperties.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/functions/Function2Args.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/res/XMLErrorResources_en.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/ProcessorVersion.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/ProcessorKey.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/templates/FuncFormatNumb.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/dom3/DOM3SerializerImpl.java
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/res/XMLErrorResources_de.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/trace/TraceListenerEx3.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/res/XSLTErrorResources_pt_BR.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/ToXMLSAXHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/XNumber.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-

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jar/org/apache/xml/serializer/OutputPropertyUtils.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/TopLevelElement.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/Copy.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/dtm/ref/ObjectFactory.java
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/functions/FuncNumber.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/Utils/Constants.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/trace/TraceListener.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/dom3/NamespaceSupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/dom3/DOMErrorImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/extensions/ExtensionHandlerJava.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/ProcessorStripSpace.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/trace/TraceListenerEx2.java
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/RealExpr.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/axes/UnionChildIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/dtm/DTMException.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/util/CompareGenerator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/templates/XMLNSDecl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/Output.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/Closure.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Utils/Utils.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/templates/TemplateList.java
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/axes/SelfIteratorNoPredicate.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/Utils/res/XResources_sv.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/util/InternalServerError.java

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\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Utils/SerializerMessages\_ru.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/KeyCall.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ElemDesc.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/NodeIteratorBase.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorTemplateElem.java  
 \*  
 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMAxisTraverser.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemExsltFuncResult.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/XPathFunctionResolverImpl.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TransformerClient.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ObjectFactory.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/TraceListenerEx.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/ExtensionsProvider.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/cmdline/Compile.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/ExsltDatetime.java  
 \*  
 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncContains.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/EmptyIterator.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemValueOf.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/SelectionEvent.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/VoidType.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemParam.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/AdaptiveResultTreeImpl.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/XBoolean.java  
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 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ResultTreeType.java  
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\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/OutputSettings.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Encodings.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/SerializerFactory.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/WrongParserException.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/XPathException.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMStringPool.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/String.java  
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 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/NodeTestFilter.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StringToStringTable.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/ExsltDynamic.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/XSLTCDTMMManager.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMTreeWalker.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/XMLCharacterRecognizer.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/NodeTest.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/IdKeyPattern.java  
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 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/serialize/SerializerUtils.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/NamedMethodGenerator.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/SourceTree.java  
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 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/ThreadControllerWrapper.java  
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 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/DOMCache.java

- \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemAttributeSet.java
- \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncTrue.java
- \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/IntArrayWrapper.java
- \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/StepPattern.java
- \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/MultipleNodeCounter.java
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 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
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 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/res/XMLERrorResources\_ja.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/XPathContext.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/Include.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/templates/ElemWithParam.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/dom/CurrentNodeListFilter.java  
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 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/util/MethodType.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xpath/WhitespaceStrippingElementMatcher.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/Attribute.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/CopyOf.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/Attributes.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/MatchPatternIterator.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/DupFilterIterator.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/NodeIterator.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/DecimalFormatting.java  
 \*  
 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/XPathVisitor.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources\_ko.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/XalanTransformState.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemVariablePseudo.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/FilterExprIterator.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessage\_es.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage\_hu.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources\_ru.java  
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 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages\_pl.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/Expression.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/TransformStateSetter.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathEvaluatorImpl.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemExtensionCall.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/RTFIterator.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNodeListBase.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/LocPathIterator.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources\_pt\_BR.java  
 \*  
 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorInclude.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/ObjectPool.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Message.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/dtm/ref/DTMNamedNodeMap.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/ObjectFactory.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/Utils/XMLString.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/templates/ElemExtensionDecl.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/serializer/Utils/WrappedRuntimeException.java  
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 jar/org/apache/xml/Utils/res/XResources\_de.java  
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 jar/org/apache/xpath/res/XPATHMessages.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/runtime/ErrorMessage\_ca.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/cmdline/SecuritySupport.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/LocalNameCall.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/extensions/SecuritySupport.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/Utils/BoolStack.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/FoundIndex.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/serializer/dom3/DOMStringListImpl.java  
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 jar/org/apache/xalan/res/XSLTErrorResources\_it.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xpath/functions/FuncExtElementAvailable.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMIterator.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/ArgumentList.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xpath/objects/DTMXRTreeFrag.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/compiler/AnccestorPattern.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xpath/axes/WalkingIterator.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
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 jar/org/apache/xpath/res/XPATHErrorResources\_en.java  
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 jar/org/apache/xalan/xsltc/compiler/ForEach.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources\_de.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StringComparable.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Expression.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/XSLTVisitor.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LiteralExpr.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ApplyImports.java  
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 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/ConnectionPoolManager.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorAttributeSet.java  
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 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExtensionHandlerJavaClass.java  
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 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/QName.java  
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 /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMManager.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/GenerateIdCall.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/QName.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TransformSnapshot.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages\_ca.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/QueryParameter.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage\_es.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorOutputElem.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Param.java  
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 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xpath/axes/FilterExprIteratorSimple.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/res/XSLTErrorResources\_zh\_CN.java  
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 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/res/XSLTErrorResources\_de.java  
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 jar/org/apache/xalan/transformer/ResultNameSpace.java  
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 jar/org/apache/xml/serializer/utils/SerializerMessages\_fr.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xalan/xsltc/trax/ObjectFactory.java  
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 jar/org/apache/xml/utils/res/XResources\_ja\_JP\_A.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Gt.java  
 \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-  
 jar/org/apache/xml/res/XMLErrorResources\_fr.java  
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/dtm/DTMConfigurationException.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/dtm/ref/DTMNodeList.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/Axis.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/templates/XUnresolvedVariable.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/functions/FuncFalse.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage_sl.java
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/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/dom/AbsoluteIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/dom/CurrentNodeListIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/IllegalCharException.java
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```

```
/*
```

```
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```

```
*/
```

```
/*
```

```
* $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
```

```
*/
```

```
package org.apache.xalan;
```

```
/**
```

```
* Administrative
```



```

class to keep track of the version number of
* the Xalan release.
* <P>This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
* to get version information. This class will replace the older
* org.apache.xalan.processor.Version class.</P>
* <P>See also: org/apache/xalan/res/XSLTInfo.properties for
* information about the version of the XSLT spec we support.</P>
* @xsl.usage general
*/
public class Version
{

/**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * <CODE>"<B>Xalan</B> <B>Java</B> v.r[.dd] <B>D</B>nn]"</CODE>.
 *
 * Futurework: have this read version info from jar manifest.
 *
 * @return String denoting our current version
 */
public static String getVersion()
{
    return getProduct()+" "+getImplementationLanguage()+" "
        +getMajorVersionNum()+"."+getReleaseVersionNum()+". "

        +( (getDevelopmentVersionNum() > 0) ?
            ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
}

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Xalan.
 */
public static String getProduct()
{
    return "Xalan";
}

```

```

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 *     significant, externally apparent enhancement from
 *     the previous release. 'n' represents the n'th
 *     version.
 *
 *     Clients should carefully consider the implications
 *     of new versions as external interfaces and behaviour
 *
 *     may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 *     - a new set of functionality is to be added, eg,
 *       implementation of a new W3C specification.
 *     - API or behaviour change.
 *     - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *     drop applied to a specific release and contains
 *     fixes for defects reported. It maintains compatibility
 *     with the release and contains no API changes.
 *     When missing, it designates the final and complete

```

```

*      development drop for a release.
*/
public static int getMaintenanceVersionNum()
{
    return
    @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@").length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}
}
}

```

Found in path(s):

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.src  
No license file was found, but licenses were detected in source scan.

```

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*/
/*
* $Id: Version.src 468654 2006-10-28 07:09:23Z minchau $
*/
package org.apache.xml.serializer;

/**
 * Administrative class to keep track of the version number of
 * the Serializer release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information.</P>
 * @xsl.usage general
 */
public final class Version
{

    /**
     * Get the basic version string for the current Serializer.
     * Version String formatted like
     * <CODE>"<B>Serializer</B> <B>Java</B> v.r[.dd| <B>D</B>nn]"</CODE>.
     *
     * Futurework: have this read version info from jar manifest.
     *
     * @return String denoting our current version
     */
    public static String getVersion()
    {
        return getProduct()+" "+getImplementationLanguage()+" "
            +getMajorVersionNum()+"."+getReleaseVersionNum()+"."
            +(getDevelopmentVersionNum() > 0) ?
                ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum());
    }

    /**
     * Print the processor version to the command
     line.
     */

```

```

* @param argv command line arguments, unused.
*/
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Serializer.
 */
public static String getProduct()
{
    return "Serializer";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 *     significant, externally apparent enhancement from
 *     the previous release. 'n' represents the n'th
 *     version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This
changes when:
 *     - a new set of functionality is to be added, eg,
 *     implementation of a new W3C specification.
 *     - API or behaviour change.

```

```

*     - its designated as a reference release.
*/
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development
drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}

```

```
}  
}  
}
```

Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src
```

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```
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```

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*/
```

Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-  
jar/org/apache/xalan/xsltc/compiler/XPathLexer.java
```

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```
/*
```

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```

```
*/
```

```
// Proprietary
```

/\*\* The 'document-location()' id (Proprietary). \*/

Found in path(s):

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/FunctionTable.java

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\*/

/\*\*

\* Major version number.  
\* Version number. This changes only when there is a  
\* significant, externally apparent  
enhancement from  
\* the previous release. 'n' represents the n'th  
\* version.  
\*  
\* Clients should carefully consider the implications  
\* of new versions as external interfaces and behaviour  
\* may have changed.

\*/

Found in path(s):

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.java

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/Version.java

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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/
```

```
/*
 * $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $
 */
```

```
/*
 * @author Jacek Ambroziak
 * @author
 * Santiago Pericas-Geertsen
 * @author Morten Jorgensen
 * @author G. Todd Miller
 */
```

```
package org.apache.xalan.xsltc.compiler;
```

```
import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;
```

```
import org.apache.xml.dtm.DTM;
import org.apache.xalan.xsltc.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xalan.xsltc.compiler.util.ErrorMsg;
```

```
parser code {:
```

```
/**
 * Used by function calls with no args.
 */
static public final Vector EmptyArgs = new Vector(0);
```

```
/**
 * Reference to non-existing variable.
 */
static public final VariableRef DummyVarRef = null;
```

```

/**
 * Reference to the Parser class.
 */
private Parser _parser;
private XSLTC _xslt;

/**
 * String representation of the expression being parsed.
 */
private String _expression;

/**
 * Line number where this expression/pattern
was declared.
 */
private int _lineNumber = 0;

/**
 * Reference to the symbol table.
 */
public SymbolTable _symbolTable;

public XPathParser(Parser parser) {
    _parser = parser;
    _xslt = parser.getXSLTC();
    _symbolTable = parser.getSymbolTable();
}

public int getLineNumber() {
    return _lineNumber;
}

public QName getQNameIgnoreDefaultNs(String name) {
    return _parser.getQNameIgnoreDefaultNs(name);
}

public QName getQName(String namespace, String prefix, String localname) {
    return _parser.getQName(namespace, prefix, localname);
}

public void setMultiDocument(boolean flag) {
    _xslt.setMultiDocument(flag);
}

public void setCallsNodeset(boolean flag) {
    _xslt.setCallsNodeset(flag);
}

```

```

public void setHasIdCall(boolean flag) {
    _xslt.setHasIdCall(flag);
}

/**
 * This
method is similar to findNodeType(int, Object) except that it
 * creates a StepPattern instead of just returning a node type. It also
 * differs in the way it handles "{uri}:*" and "{uri}:@*". The last two
 * patterns are expanded as "*[namespace-uri() = 'uri']" and
 * "@*[namespace-uri() = 'uri']", respectively. This expansion considerably
 * simplifies the grouping of patterns in the Mode class. For this
 * expansion to be correct, the priority of the pattern/template must be
 * set to -0.25 (when no other predicates are present).
 */
public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
int nodeType;

if (test == null) { // "*"
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
(axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;

    return new StepPattern(axis, nodeType, predicates);
    }
    else if (test instanceof Integer) {
nodeType = ((Integer) test).intValue();

return new StepPattern(axis, nodeType, predicates);
    }
    else {
QName name = (QName)test;
boolean setPriority = false;

if (axis == Axis.NAMESPACE) {
nodeType = (name.toString().equals("*")) ? -1
: _xslt.registerNamespacePrefix(name);;
    }
    else {
final String uri = name.getNamespace();
final String local = name.getLocalPart();
final QName namespace_uri =
    _parser.getQNameIgnoreDefaultNs("namespace-uri");

// Expand {uri}:* to *[namespace-uri() = 'uri'] - same for @*
if (uri != null && (local.equals("") || local.equals("@*"))) {

```

```

    if (predicates == null) {
predicates = new Vector(2);
    }

    // Priority is set by hand if no other predicates exist
    setPriority = (predicates.size() == 0);

    predicates.add(
new Predicate(
    new EqualityExpr(Operators.EQ,
new NamespaceUriCall(namespace_uri),
new LiteralExpr(uri))););
    }

if (local.equals("*"))
{
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
: NodeTest.ELEMENT;
    }
else if (local.equals("@*")) {
    nodeType = NodeTest.ATTRIBUTE;
    }
else {
    nodeType = (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
: _xsltc.registerElement(name);
    }
    }

    final StepPattern result = new StepPattern(axis, nodeType, predicates);

    // Set priority for case prefix:* and prefix:@* (no predicates)
    if (setPriority) {
result.setPriority(-0.25);
    }

    return result;
}
}

public int findNodeType(int axis, Object test) {
if (test == null) { // *
    return (axis == Axis.ATTRIBUTE) ?
NodeTest.ATTRIBUTE :
(axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
    }
    else if (test instanceof Integer) {
        return ((Integer)test).intValue();
    }
}

```

```

    else {
        QName name = (QName)test;

        if (axis == Axis.NAMESPACE) {
            return (name.toString().equals("*"))
? -1
            : _xslt.registerNamespacePrefix(name);
        }

        if (name.getNamespace() == null) {
            final String local = name.getLocalPart();

            if (local.equals("*")) {
                return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
: NodeTest.ELEMENT;
            }
            else if (local.equals("@*")) {
                return NodeTest.ATTRIBUTE;
            }
        }

        return (axis == Axis.ATTRIBUTE) ? _xslt.registerAttribute(name)
: _xslt.registerElement(name);
    }
}

/**
 * Parse the expression passed to the current scanner. If this
 * expression contains references to local variables and it will be
 * compiled in an external module (not in the main class) request
 * the current template to create a new variable stack frame.
 *
 * @param lineNumber Line where the current expression is defined.
 * @param external Set to <tt>true</tt> if this expression is
 * compiled in a separate module.
 *
 */
public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
        _expression = expression;
        _lineNumber = lineNumber;
        return super.parse();
    }
    catch (IllegalCharException e) {
        ErrorMessage err = new ErrorMessage(ErrorMessage.ILLEGAL_CHAR_ERR,
            lineNumber, e.getMessage());
        _parser.reportError(Constants.FATAL, err);
    }
}

```

```

    }
    return null;
}

/**
 * Lookup a variable or parameter in the symbol table given its name.
 *
 * @param name Name of the symbol being looked up.
 */
final SyntaxTreeNode lookupName(QName name) {
    // Is it a local var or param ?
    final SyntaxTreeNode result = _parser.lookupVariable(name);
    if (result != null)
        return(result);
    else
        return(_symbolTable.lookupName(name));
}

public final void addError(ErrorMsg error) {
    _parser.reportError(Constants.ERROR,
error);
}

public void report_error(String message, Object info) {
final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
    _expression);
    _parser.reportError(Constants.FATAL, err);
}

public void report_fatal_error(String message, Object info) {
    // empty
}

public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
    if (rlp instanceof Step) {
        return new ParentLocationPath(step, (Step) rlp);
    }
    else if (rlp instanceof ParentLocationPath) {
        final ParentLocationPath plp = (ParentLocationPath) rlp;
        final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
        return new ParentLocationPath(newrlp, plp.getStep());
    }
    else {
        addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep"));
        return rlp;
    }
}
}

```

```

/**
 * Returns true if the axis applies to elements only. The axes
 * child, attribute, namespace, descendant
result in non-empty
 * nodesets only if the context node is of type element.
 */
public boolean isElementAxis(int axis) {
return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
}
:}

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QNAME;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non
terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal RelativePathPattern RelativePathPattern;
non terminal StepPattern StepPattern;

```

non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;

non terminal QName QName, FunctionName, VariableName;

non terminal Integer AxisName, AxisSpecifier;

non terminal

Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;

precedence left OR;

precedence left AND;

precedence nonassoc EQ, NE;

precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;

precedence left DIV, MOD, MULT;

precedence left DOLLAR;

precedence left ATSIGN;

precedence right DCOLON;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern

{: RESULT = pattern; :}

| EXPRESSION Expr:expr

{: RESULT = expr; :};

/\* ----- Patterns ----- \*/

Pattern ::= LocationPathPattern:lpp

{: RESULT = lpp; :}

| LocationPathPattern:lpp VBAR Pattern:p

{: RESULT = new AlternativePattern(lpp, p); :};

LocationPathPattern ::= SLASH

{: RESULT = new AbsolutePathPattern(null); :}

| SLASH RelativePathPattern:rpp

{: RESULT = new AbsolutePathPattern(rpp); :}

| IdKeyPattern:ikp

{: RESULT = ikp; :}

| IdKeyPattern:ikp SLASH RelativePathPattern:rpp

{: RESULT = new ParentPattern(ikp, rpp); :}



```

| IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
{: RESULT = new AncestorPattern(ikp, rpp); :}

| DSLASH RelativePathPattern:rpp
{: RESULT = new AncestorPattern(rpp); :}

| RelativePathPattern:rpp
{: RESULT = rpp; :};

IdKeyPattern ::= ID LPAREN Literal:l RPAREN
{: RESULT = new IdPattern(l);
  parser.setHasIdCall(true);
:}

| KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
{: RESULT = new KeyPattern(l1, l2); :};

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
{: RESULT = new ProcessingInstructionPattern(l); :};

RelativePathPattern ::= StepPattern:sp
{: RESULT = sp; :}

| StepPattern:sp SLASH RelativePathPattern:rpp
{: RESULT
= new ParentPattern(sp, rpp); :}

| StepPattern:sp DSLASH RelativePathPattern:rpp
{: RESULT = new AncestorPattern(sp, rpp); :};

StepPattern ::= NodeTestPattern:nt
{:
RESULT = parser.createStepPattern(Axis.CHILD, nt, null);
:}

| NodeTestPattern:nt Predicates:pp
{:
RESULT = parser.createStepPattern(Axis.CHILD, nt, pp);
:}

| ProcessingInstructionPattern:pip
{: RESULT = pip; :}

| ProcessingInstructionPattern:pip Predicates:pp
{: RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); :}

| ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt

```

```

    {
    RESULT = parser.createStepPattern(axis.intValue(), nt, null);
    :}

| ChildOrAttributeAxisSpecifier:axis
NodeTestPattern:nt Predicates:pp
    {
    RESULT = parser.createStepPattern(axis.intValue(), nt, pp);
    :}

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
    {
    RESULT = pip; // TODO: report error if axis is attribute
    :}

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
Predicates:pp
    {
    // TODO: report error if axis is attribute
    RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);
    :};

NodeTestPattern ::= NameTestPattern:nt
    { RESULT = nt; :}

| NODE
    { RESULT = new Integer(NodeTest.ANODE); :}

| TEXT
    { RESULT = new Integer(NodeTest.TEXT); :}

| COMMENT
    { RESULT = new Integer(NodeTest.COMMENT); :}

| PI
    { RESULT = new Integer(NodeTest.PI); :};

NameTestPattern ::= STAR
    { RESULT = null; :}

| QName:qn
    { RESULT = qn; :};

ChildOrAttributeAxisSpecifier ::= ATSIGN

    { RESULT = new Integer(Axis.ATTRIBUTE); :}

| CHILD DCOLON

```

```
{: RESULT = new Integer(Axis.CHILD); :}
```

```
| ATTRIBUTE DCOLON
```

```
{: RESULT = new Integer(Axis.ATTRIBUTE); :};
```

```
Predicates ::= Predicate:p
```

```
{:
```

```
Vector temp = new Vector();
```

```
temp.addElement(p);
```

```
RESULT = temp;
```

```
:}
```

```
| Predicate:p Predicates:pp
```

```
{: pp.insertElementAt(p, 0); RESULT = pp; :};
```

```
Predicate ::= LBRACK Expr:e RBRACK
```

```
{:
```

```
RESULT = new Predicate(e);
```

```
:};
```

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

```
Expr ::= OrExpr:ex
```

```
{: RESULT = ex; :};
```

```
OrExpr ::= AndExpr:ae
```

```
{: RESULT = ae; :}
```

```
| OrExpr:oe OR AndExpr:ae
```

```
{: RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); :};
```

```
AndExpr ::= EqualityExpr:e
```

```
{: RESULT = e; :}
```

```
| AndExpr:ae AND EqualityExpr:ee
```

```
{: RESULT = new LogicalExpr(LogicalExpr.AND,  
ae, ee); :};
```

```
EqualityExpr ::= RelationalExpr:re
```

```
{: RESULT = re; :}
```

```
| EqualityExpr:ee EQ RelationalExpr:re
```

```
{: RESULT = new EqualityExpr(Operators.EQ, ee, re); :}
```

```
| EqualityExpr:ee NE RelationalExpr:re
```

```
{: RESULT = new EqualityExpr(Operators.NE, ee, re); :};
```

```
RelationalExpr ::= AdditiveExpr:ae
```

{: RESULT = ae; :}

| RelationalExpr:re LT AdditiveExpr:ae

{: RESULT = new RelationalExpr(Operators.LT, re, ae); :}

| RelationalExpr:re GT AdditiveExpr:ae

{: RESULT = new RelationalExpr(Operators.GT, re, ae); :}

| RelationalExpr:re LE AdditiveExpr:ae

{: RESULT = new RelationalExpr(Operators.LE, re, ae); :}

| RelationalExpr:re GE AdditiveExpr:ae

{: RESULT = new RelationalExpr(Operators.GE, re, ae); :};

AdditiveExpr ::= MultiplicativeExpr:me

{: RESULT = me; :}

| AdditiveExpr:ae PLUS MultiplicativeExpr:me

{: RESULT = new BinOpExpr(BinOpExpr.PLUS,  
ae, me); :}

| AdditiveExpr:ae MINUS MultiplicativeExpr:me

{: RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); :};

MultiplicativeExpr ::= UnaryExpr:ue

{: RESULT = ue; :}

| MultiplicativeExpr:me MULT UnaryExpr:ue

{: RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); :}

| MultiplicativeExpr:me DIV UnaryExpr:ue

{: RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); :}

| MultiplicativeExpr:me MOD UnaryExpr:ue

{: RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); :};

UnaryExpr ::= UnionExpr:ue

{: RESULT = ue; :}

| MINUS UnaryExpr:ue

{: RESULT = new UnaryOpExpr(ue); :};

UnionExpr ::= PathExpr:pe

{: RESULT = pe; :}

| PathExpr:pe VBAR UnionExpr:rest

{: RESULT = new UnionPathExpr(pe, rest); :};

```

PathExpr ::= LocationPath:lp
    {: RESULT = lp; :}

    | FilterExpr:fexp
    {: RESULT = fexp; :}

    | FilterExpr:fexp
SLASH RelativeLocationPath:rlp
    {: RESULT = new FilterParentPath(fexp, rlp); :}

    | FilterExpr:fexp DSLASH RelativeLocationPath:rlp
    {:
        //
        // Expand '/' into '/descendant-or-self::node()' or
        // into '/descendant-or-self::*'
        //
        int nodeType = DOM.NO_TYPE;
        if (rlp instanceof Step &&
            parser.isElementAxis(((Step) rlp).getAxis()))
        {
            nodeType = DTM.ELEMENT_NODE;
        }
        final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
        FilterParentPath fpp = new FilterParentPath(fexp, step);
        fpp = new FilterParentPath(fpp, rlp);
        if (fexp instanceof KeyCall == false) {
            fpp.setDescendantAxis();
        }
        RESULT = fpp;
    };

```

```

LocationPath ::= RelativeLocationPath:rlp
    {: RESULT = rlp; :}

```

```

    | AbsoluteLocationPath:alp
    {: RESULT = alp; :};

```

```

RelativeLocationPath ::= Step:step
    {: RESULT
= step; :}

```

```

    | RelativeLocationPath:rlp SLASH Step:step
    {:
        if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
            RESULT = step;    // Remove './' from the middle
        }
        else if (((Step) step).isAbbreviatedDot()) {
            RESULT = rlp;    // Remove './' from the end
        }
    };

```

```

}
else {
    RESULT =
        new ParentLocationPath((RelativeLocationPath) rlp, step);
}
:}

```

```

| AbbreviatedRelativeLocationPath:arlp
{: RESULT = arlp; :};

```

```

AbsolutePath ::= SLASH
{: RESULT = new AbsoluteLocationPath(); :}

```

```

| SLASH RelativeLocationPath:rlp
{: RESULT = new AbsoluteLocationPath(rlp); :}

```

```

| AbbreviatedAbsolutePath:aalp
{: RESULT = aalp; :};

```

```

AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step

```

```

{:
    final Step right = (Step)step;
    final
int axis = right.getAxis();
    final int type = right.getNodeType();
    final Vector predicates = right.getPredicates();

    if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
        // Compress './child:E' into 'descendant::E' - if possible
        if (predicates == null) {
            right.setAxis(Axis.DESCENDANT);
            if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
                RESULT = right;
            }
            else {
                // Expand 'rlp//child::E' into 'rlp/descendant::E'
                RelativeLocationPath left = (RelativeLocationPath)rlp;
                RESULT = new ParentLocationPath(left, right);
            }
        }
        else {
            // Expand './step' -> 'descendant-or-self::*step'
            if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {

                Step left = new Step(Axis.DESCENDANTORSELF,
                    DTM.ELEMENT_NODE, null);
                RESULT = new ParentLocationPath(left, right);
            }
        }
    }
}

```

```

    else {
        // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/*step'
        RelativeLocationPath left = (RelativeLocationPath)rlp;
        Step mid = new Step(Axis.DESCENDANTORSELF,
DTM.ELEMENT_NODE, null);
        ParentLocationPath ppl = new ParentLocationPath(mid, right);
        RESULT = new ParentLocationPath(left, ppl);
    }
}
}
else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/*step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
DTM.ELEMENT_NODE, null);

    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
DOM.NO_TYPE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
};

```

AbbreviatedAbsolutePath ::= DSLASH RelativeLocationPath:rlp

```

{:
    //
    // Expand '/' into '/descendant-or-self::node()/' or
    // into '/descendant-or-self::*/*'
    //
    int nodeType = DOM.NO_TYPE;
    if (rlp instanceof Step &&
        parser.isElementAxis(((Step) rlp).getAxis()))
    {
        nodeType = DTM.ELEMENT_NODE;
    }
    final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
    RESULT =
new AbsoluteLocationPath(parser.insertStep(step,
    (RelativeLocationPath) rlp));
};

```

Step ::= NodeTest:ntest

```
{:  
  if (ntest instanceof Step) {  
    RESULT = (Step)ntest;  
  }  
  else {  
    RESULT = new Step(Axis.CHILD,  
                      parser.findNodeType(Axis.CHILD, ntest),  
                      null);  
  }  
:}
```

| NodeTest:ntest Predicates:pp

```
{:  
  if (ntest instanceof Step) {  
    Step step = (Step)ntest;  
    step.addPredicates(pp);  
    RESULT = (Step)ntest;  
  }  
  else {  
    RESULT = new Step(Axis.CHILD,  
                      parser.findNodeType(Axis.CHILD, ntest), pp);  
  }  
:}
```

| AxisSpecifier:axis NodeTest:ntest Predicates:pp

```
{: RESULT = new Step(axis.intValue(),  
                    parser.findNodeType(axis.intValue(), ntest),  
                    pp);  
:}
```

| AxisSpecifier:axis NodeTest:ntest

```
{: RESULT = new Step(axis.intValue(),  
                    parser.findNodeType(axis.intValue(), ntest),  
                    null);  
:}
```

| AbbreviatedStep:abbrev

```
{: RESULT = abbrev; :};
```

AxisSpecifier ::= AxisName:an DCOLON

```
{: RESULT = an; :}
```

| ATSIGN

```
{: RESULT = new Integer(Axis.ATTRIBUTE); :};
```

AxisName ::= ANCESTOR

```
{: RESULT = new Integer(Axis.ANCESTOR); :}
```



| ANCESTORORSELF  
{: RESULT = new Integer(Axis.ANCESTORORSELF); :}

| ATTRIBUTE  
{: RESULT = new Integer(Axis.ATTRIBUTE); :}

| CHILD  
{: RESULT = new Integer(Axis.CHILD); :}

| DESCENDANT  
{: RESULT = new Integer(Axis.DESCENDANT); :}

| DESCENDANTORSELF  
{: RESULT = new Integer(Axis.DESCENDANTORSELF); :}

| FOLLOWING  
{: RESULT = new  
Integer(Axis.FOLLOWING); :}

| FOLLOWINGSIBLING  
{: RESULT = new Integer(Axis.FOLLOWINGSIBLING); :}

| NAMESPACE  
{: RESULT = new Integer(Axis.NAMESPACE); :}

| PARENT  
{: RESULT = new Integer(Axis.PARENT); :}

| PRECEDING  
{: RESULT = new Integer(Axis.PRECEDING); :}

| PRECEDINGSIBLING  
{: RESULT = new Integer(Axis.PRECEDINGSIBLING); :}

| SELF  
{: RESULT = new Integer(Axis.SELF); :};

AbbreviatedStep ::= DOT  
{: RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); :}

| DDOT  
{: RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); :};

FilterExpr ::= PrimaryExpr:primary  
{: RESULT = primary; :}

| PrimaryExpr:primary Predicates:pp

```

    {: RESULT = new FilterExpr(primary, pp); :};

PrimaryExpr ::= VariableReference:vr
    {: RESULT = vr; :}

    | LPAREN Expr:ex RPAREN
    {: RESULT = ex; :}

    | Literal:string
    {:

/*
* If the string appears to have the syntax of a QName, store
* namespace info in the literal expression. This is used for
* element-available and function-available functions, among
* others. Also, the default namespace must be ignored.
*/
String namespace = null;
final int index = string.lastIndexOf(':');

if (index > 0) {
    final String prefix = string.substring(0, index);
    namespace = parser._symbolTable.lookupNamespace(prefix);
}
RESULT = (namespace == null) ? new LiteralExpr(string)
    : new LiteralExpr(string, namespace);
:}

    | INT:num
    {:
    long value = num.longValue();
    if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
RESULT = new RealExpr(value);
    }
    else {
        if (num.doubleValue() == -0)
            RESULT = new RealExpr(num.doubleValue());
        else if (num.intValue() == 0)
            RESULT = new IntExpr(num.intValue());

        else if (num.doubleValue() == 0.0)
            RESULT = new RealExpr(num.doubleValue());
        else
            RESULT = new IntExpr(num.intValue());
    }
:}

    | REAL:num

```

```
{: RESULT = new RealExpr(num.doubleValue()); :}
```

```
| FunctionCall:fc
```

```
{: RESULT = fc; :};
```

```
VariableReference ::= DOLLAR VariableName:varName
```

```
{:  
  // An empty QName prefix for a variable or parameter reference  
  // should map to the null namespace and not the default URI.  
  SyntaxTreeNode node = parser.lookupName(varName);  
  
  if (node != null) {  
    if (node instanceof Variable) {  
      RESULT = new VariableRef((Variable)node);  
    }  
    else if (node instanceof Param) {  
      RESULT = new ParameterRef((Param)node);  
    }  
    else {  
      RESULT = new UnresolvedRef(varName);  
    }  
  }  
  
  if (node == null) {  
    RESULT = new UnresolvedRef(varName);  
  }  
};
```

```
FunctionCall ::= FunctionName:fname LPAREN RPAREN
```

```
{:  
  
  if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {  
    RESULT = new CurrentCall(fname);  
  }  
  else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {  
    RESULT = new NumberCall(fname, parser.EmptyArgs);  
  }  
  else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {  
    RESULT = new StringCall(fname, parser.EmptyArgs);  
  }  
  else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {  
    RESULT = new ConcatCall(fname, parser.EmptyArgs);  
  }  
  else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {  
    RESULT = new BooleanExpr(true);  
  }  
  else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
```

```

RESULT = new BooleanExpr(false);
}
else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
    RESULT = new PositionCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
    RESULT = new LastCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname);
}
else {
    RESULT = new FunctionCall(fname, parser.EmptyArgs);
}
:}

| FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN
{:
if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
    RESULT = new NumberCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
parser.setMultiDocument(true);
    RESULT = new DocumentCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
    RESULT = new BooleanCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {

```

```

RESULT = new NameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
    RESULT = new NotCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
    RESULT = new FormatNumberCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
    RESULT = new UnparsedEntityUriCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
    parser.setHasIdCall(true);
}
else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname))
{
    RESULT = new CeilingCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new StartsWithCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname))
{
    RESULT = new ElementAvailableCall(fname, argl);
}

```

```

    else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
        RESULT = new LocalNameCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
        RESULT = new LangCall(fname, argl);
    }
    else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
        RESULT = new NamespaceUriCall(fname, argl);
    }
    else if (parser.getQName(Constants.TRANSLET_URI, "xslt", "cast").equals(fname)) {
        RESULT = new CastCall(fname, argl);
    }
    // Special case for extension function nodeset()
    else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
        parser.setCallsNodeset(true); // implies MultiDOM
        RESULT = new FunctionCall(fname, argl);
    }
    else {
        RESULT = new FunctionCall(fname, argl);
    }
};

```

NonemptyArgumentList

```

::= Argument:arg
    {
        Vector temp = new Vector();
        temp.addElement(arg);
        RESULT = temp;
    }

| Argument:arg COMMA NonemptyArgumentList:argl
    { argl.insertElementAt(arg, 0); RESULT = argl; };

```

FunctionName ::= QName:fname

```

    {
        RESULT = fname;
    };

```

VariableName ::= QName:vname

```

    {
        RESULT = vname;
    };

```

Argument ::= Expr:ex

```

    { RESULT = ex; };

```

NodeTest ::= NameTest:nt

```

    { RESULT = nt; }

```

```

| NODE
{: RESULT = new Integer(NodeTest.ANODE); :}

| TEXT
{: RESULT = new Integer(NodeTest.TEXT); :}

| COMMENT
{: RESULT = new Integer(NodeTest.COMMENT); :}

| PIPARAM LPAREN Literal:l RPAREN
{:
  QName name = parser.getQNameIgnoreDefaultNs("name");
  Expression exp = new EqualityExpr(Operators.EQ,
    new NameCall(name),
    new LiteralExpr(l));
  Vector predicates = new Vector();
  predicates.addElement(new Predicate(exp));
  RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
:}

| PI
{: RESULT = new Integer(NodeTest.PI); :};

```

```

NameTest ::= STAR
  {: RESULT = null; :}

```

```

  | QName:qn
  {: RESULT = qn; :};

```

```

QName ::= QNAME:qname
  {: RESULT = parser.getQNameIgnoreDefaultNs(qname); :}

```

```

| DIV
  {: RESULT = parser.getQNameIgnoreDefaultNs("div"); :}

```

```

| MOD
  {: RESULT = parser.getQNameIgnoreDefaultNs("mod"); :}

```

```

| KEY
  {: RESULT = parser.getQNameIgnoreDefaultNs("key"); :}

```

```

| ANCESTOR
  {: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

```

```

| ANCESTORORSELF
  {: RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); :}

```

```

| ATTRIBUTE
{: RESULT = parser.getQNameIgnoreDefaultNs("attribute"); ;}

= parser.getQNameIgnoreDefaultNs("attribute"); ;}

| CHILD
{: RESULT = parser.getQNameIgnoreDefaultNs("child"); ;}

| DESCENDANT
{: RESULT = parser.getQNameIgnoreDefaultNs("decendant"); ;}

| DESCENDANTORSELF
{: RESULT = parser.getQNameIgnoreDefaultNs("decendant-or-self"); ;}

| FOLLOWING
{: RESULT = parser.getQNameIgnoreDefaultNs("following"); ;}

| FOLLOWINGSIBLING
{: RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); ;}

| NAMESPACE
{: RESULT = parser.getQNameIgnoreDefaultNs("namespace"); ;}

| PARENT
{: RESULT = parser.getQNameIgnoreDefaultNs("parent"); ;}

| PRECEDING
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding"); ;}

| PRECEDINGSIBLING
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); ;}

| SELF
{: RESULT = parser.getQNameIgnoreDefaultNs("self"); ;}

| ID
{: RESULT = parser.getQNameIgnoreDefaultNs("id"); ;};

```

Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/xpath.cup
```

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

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```



Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/Encodings.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/XMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_text.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/res/XSLTInfo.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_xml.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/Makefile.inc
*
/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_unknown.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/HTMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xml/serializer/output_html.properties
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/
// is found, then throw a special exception in order to terminate
```

Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/TransformerFactoryImpl.java
No license file was found, but licenses were detected in source scan.
```

/\*



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- \* limitations under the License.

Found in path(s):

- \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/package.html
  - \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html
  - \*
  - /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/package.html
  - \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html
  - \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/package.html
  - \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html
  - \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/package.html
  - \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/package.html
  - \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/package.html
  - \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/extensions/package.html
  - \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/package.html
  - \*
  - /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/package.html
  - \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/package.html
  - \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/package.html
  - \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html
  - \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html
  - \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html
  - \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/package.html
  - \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/objects/package.html
  - \* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html
  - \*
  - /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/package.html
- No license file was found, but licenses were detected in source scan.

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* limitations under the License.
*/
/**
* Execute the proprietary document-location() function, which returns
* a node set of documents.
* @xsl.usage advanced
*/
```

Found in path(s):

```
*/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xpath/functions/FuncDoclocation.java
```

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*/
```

```
/*
* $Id: XSLProcessorVersion.src 468640 2006-10-28 06:53:53Z minchau $
*/
```

```
package org.apache.xalan.processor;
```

```
/**
* Administrative class to keep track of the version number of
* the Xalan release.
* <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
* @deprecated To be replaced by org.apache.xalan.Version.getVersion()
```

```

* @xsl.usage general
*/
public class XSLProcessorVersion
{

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(S_VERSION);
}

/**
 * Constant name of product.
 */
public static final String PRODUCT = "Xalan";

/**
 * Implementation Language.
 */
public static final String LANGUAGE = "Java";

/**
 * Major version number.
 * Version number. This changes only when there is a
 *     significant, externally apparent enhancement from
 *     the previous release. 'n' represents the n'th
 *     version.
 *
 *     Clients should carefully consider
the implications
 *     of new versions as external interfaces and behaviour
 *     may have changed.
 */
public static final int VERSION = @version.VERSION@;

/**
 * Release Number.
 * Release number. This changes when:
 *     - a new set of functionality is to be added, eg,
 *       implementation of a new W3C specification.
 *     - API or behaviour change.
 *     - its designated as a reference release.
 */
public static final int RELEASE = @version.RELEASE@;

```

```

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static final int MAINTENANCE
= @version.MINOR@;

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static final int DEVELOPMENT = 0;

/**
 * Version String like <CODE>"<B>Xalan</B> <B>Language</B>
 * v.r[.dd] <B>D</B>nn]"</CODE>.
 * <P>Semantics of the version string are
 identical to the Xerces project.</P>
 */
public static final String S_VERSION = PRODUCT+" "+LANGUAGE+" "
+VERSION+"."+RELEASE+"."
+(DEVELOPMENT > 0 ? ("D"+DEVELOPMENT)
: (""+MAINTENANCE));
}

```

Found in path(s):

```

* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/processor/XSLProcessorVersion.src

```

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 * limitations under the License.
 */
/*
 * $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
 */
```

```
/*
 * @author Jacek Ambroziak
 * @author
 * Santiago Pericas-Geertsen
 * @author Morten Jorgensen
 *
 */
```

```
package org.apache.xalan.xsltc.compiler;
```

```
import java_cup.runtime.Symbol;
%%
%cup
%unicode
%class XPathLexer
%yyeof

%{
    int last;

    void initialize() {
        last = -1;
    }

    static boolean isWhitespace(int c) {
        return (c == ' ' || c == '\t' || c == '\r' || c == '\n' || c == '\f');
```

```

}

/**
 * If symbol is not followed by ':' or '(', then treat it as a
 * name instead of an axis or function (Jira-1912).
 */
Symbol disambiguateAxisOrFunction(int ss) throws Exception {
    // Peek in the input buffer without changing the internal state
    int index = yy_buffer_index;

    // Skip whitespace
    while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
        index++;
    }

    // If end of buffer, can't disambiguate :(

    if (index >= yy_buffer_read) {
        // Can't disambiguate, so return as symbol
        return new Symbol(ss);
    }

    // Return symbol if next token is ':' or '('
    return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':' ||
            yy_buffer[index] == '(') ?
        newSymbol(ss) : newSymbol(sym.QNAME, yytext());
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * name instead of a keyword (Jira-1912).
 */
Symbol disambiguateOperator(int ss) throws Exception {
    switch (last) {
    case -1: // first token
    case sym.ATSIGN:
    case sym.DCOLON:
    case sym.LPAREN:
    case sym.LBRACK:
    case sym.COMMA:
    case sym.AND:
    case sym.OR:
    case
sym.MOD:
    case sym.DIV:
    case sym.MULT:
    case sym.SLASH:

```



```

case sym.DSLASH:
case sym.VBAR:
case sym.PLUS:
case sym.MINUS:
case sym.EQ:
case sym.NE:
case sym.LT:
case sym.LE:
case sym.GT:
case sym.GE:
    return newSymbol(sym.QNAME, yytext());
}
return newSymbol(ss);
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * wildcard instead of a multiplication operator
 */
Symbol disambiguateStar() throws Exception {
    switch (last) {
    case -1: // first token
    case sym.ATSIGN:
    case sym.DCOLON:
    case sym.LPAREN:
    case sym.LBRACK:
    case sym.COMMA:

case sym.AND:
    case sym.OR:
    case sym.MOD:
    case sym.DIV:
    case sym.MULT:
    case sym.SLASH:
    case sym.DSLASH:
    case sym.VBAR:
    case sym.PLUS:
    case sym.MINUS:
    case sym.EQ:
    case sym.NE:
    case sym.LT:
    case sym.LE:
    case sym.GT:
    case sym.GE:
        return newSymbol(sym.STAR);
    }
    return newSymbol(sym.MULT);
}

```

```

}

Symbol newSymbol(int ss) {
    last = ss;
    return new Symbol(ss);
}

Symbol newSymbol(int ss, String value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Long value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Double value) {
    last = ss;
    return new
Symbol(ss, value);
}
% }

%eofval{
return newSymbol(sym.EOF);
%eofval}

%yylexthrow{
Exception
%yylexthrow }

Letter={ BaseChar }|{ Ideographic }

BaseChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u00FF\u0100-\u0131\u0134-
\u013E\u0141-\u0148\u014A-\u017E\u0180-\u01C3\u01CD-\u01F0\u01F4-\u01F5\u01FA-\u0217\u0250-
\u02A8\u02BB-\u02C1\u0386\u0388-\u038A\u038C\u038E-\u03A1\u03A3-\u03CE\u03D0-
\u03D6\u03DA\u03DC\u03DE\u03E0\u03E2-\u03F3\u0401-\u040C\u040E-\u044F\u0451-\u045C\u045E-
\u0481\u0490-\u04C4\u04C7-\u04C8\u04CB-\u04CC\u04D0-\u04EB\u04EE-\u04F5\u04F8-\u04F9\u0531-
\u0556\u0559\u0561-\u0586\u05D0-\u05EA\u05F0-\u05F2\u0621-\u063A\u0641-\u064A\u0671-\u06B7\u06BA-
\u06BE\u06C0-\u06CE\u06D0-\u06D3\u06D5\u06E5-\u06E6\u0905-\u0939\u093D\u0958-\u0961\u0985-
\u098C\u098F-\u0990\u0993-\u09A8\u09AA-\u09B0\u09B2\u09B6-\u09B9\u09DC-\u09DD\u09DF-
\u09E1\u09F0-\u09F1\u0A05-\u0A0A\u0A0F-\u0A10\u0A13-\u0A28\u0A2A-\u0A30\u0A32-\u0A33\u0A35-
\u0A36\u0A38-\u0A39\u0A59-\u0A5C\u0A5E\u0A72-\u0A74\u0A85-\u0A8B\u0A8D\u0A8F-\u0A91\u0A93-
\u0AA8\u0AAA-\u0AB0\u0AB2-\u0AB3\u0AB5-\u0AB9\u0ABD\u0AE0\u0B05-\u0B0C\u0B0F-\u0B10\u0B13-
\u0B28\u0B2A-\u0B30\u0B32-\u0B33\u0B36-\u0B39\u0B3D\u0B5C-\u0B5D\u0B5F-\u0B61\u0B85-
\u0B8A\u0B8E-\u0B90\u0B92-\u0B95\u0B99-\u0B9A\u0B9C\u0B9E-\u0B9F\u0BA3-\u0BA4\u0BA8-
\u0BAA\u0BAE-\u0BB5\u0BB7-\u0BB9\u0C05-\u0C0C\u0C0E-\u0C10\u0C12-\u0C28\u0C2A-\u0C33\u0C35-

```

\u0C39\u0C60-\u0C61\u0C85-\u0C8C\u0C8E-\u0C90\u0C92-\u0CA8\u0CAA-\u0CB3\u0CB5-\u0CB9\u0CDE\u0CE0-\u0CE1\u0D05-\u0D0C\u0D0E-\u0D10\u0D12-\u0D28\u0D2A-\u0D39\u0D60-\u0D61\u0E01-\u0E2E\u0E30\u0E32-\u0E33\u0E40-\u0E45\u0E81-\u0E82\u0E84\u0E87-\u0E88\u0E8A\u0E8D\u0E94-\u0E97\u0E99-\u0E9F\u0EA1-\u0EA3\u0EA5\u0EA7\u0EAA-\u0EAB\u0EAD-\u0EAE\u0EB0\u0EB2-\u0EB3\u0EBD\u0EC0-\u0EC4\u0F40-\u0F47\u0F49-\u0F69\u10A0-\u10C5\u10D0-\u10F6\u1100\u1102-\u1103\u1105-\u1107\u1109\u110B-\u110C\u110E-\u1112\u113C\u113E\u1140\u114C\u114E\u1150\u1154-\u1155\u1159\u115F-\u1161\u1163\u1165\u1167\u1169\u116D-\u116E\u1172-\u1173\u1175\u119E\u11A8\u11AB\u11AE-\u11AF\u11B7-\u11B8\u11BA\u11BC-\u11C2\u11EB\u11F0\u11F9\u1E00-\u1E9B\u1EA0-\u1EF9\u1F00-\u1F15\u1F18-\u1F1D\u1F20-\u1F45\u1F48-\u1F4D\u1F50-\u1F57\u1F59\u1F5B\u1F5D\u1F5F-\u1F7D\u1F80-\u1FB4\u1FB6-\u1FBC\u1FBE\u1FC2-\u1FC4\u1FC6-\u1FCC\u1FD0-\u1FD3\u1FD6-\u1FDB\u1FE0-\u1FEC\u1FF2-\u1FF4\u1FF6-\u1FFC\u2126\u212A-\u212B\u212E\u2180-\u2182\u3041-\u3094\u30A1-\u30FA\u3105-\u312C\uAC00-\uD7A3]

Ideographic=[\u4E00-\u9FA5\u3007\u3021-\u3029]

CombiningChar=[\u0300-\u0345\u0360-\u0361\u0483-\u0486\u0591-\u05A1\u05A3-\u05B9\u05BB-\u05BD\u05BF\u05C1-\u05C2\u05C4\u064B-\u0652\u0670\u06D6-\u06DC\u06DD-\u06DF\u06E0-\u06E4\u06E7-\u06E8\u06EA-\u06ED\u0901-\u0903\u093C\u093E-\u094C\u094D\u0951-\u0954\u0962-\u0963\u0981-\u0983\u09BC\u09BE\u09BF\u09C0-\u09C4\u09C7-\u09C8\u09CB-\u09CD\u09D7\u09E2-\u09E3\u0A02\u0A3C\u0A3E\u0A3F\u0A40-\u0A42\u0A47-\u0A48\u0A4B-\u0A4D\u0A70-\u0A71\u0A81-\u0A83\u0ABC\u0ABE-\u0AC5\u0AC7-\u0AC9\u0ACB-\u0ACD\u0B01-\u0B03\u0B3C\u0B3E-\u0B43\u0B47-\u0B48\u0B4B-\u0B4D\u0B56-\u0B57\u0B82-\u0B83\u0BBE-\u0BC2\u0BC6-\u0BC8\u0BCA-\u0BCD\u0BD7\u0C01-\u0C03\u0C3E-\u0C44\u0C46-\u0C48\u0C4A-\u0C4D\u0C55-\u0C56\u0C82-\u0C83\u0CBE-\u0CC4\u0CC6-\u0CC8\u0CCA-\u0CCD\u0CD5-\u0CD6\u0D02-\u0D03\u0D3E-\u0D43\u0D46-\u0D48\u0D4A-\u0D4D\u0D57\u0E31\u0E34-\u0E3A\u0E47-\u0E4E\u0EB1\u0EB4-\u0EB9\u0EBB-\u0EBC\u0EC8-\u0ECD\u0F18-\u0F19\u0F35\u0F37\u0F39\u0F3E\u0F3F\u0F71-\u0F84\u0F86-\u0F8B\u0F90-\u0F95\u0F97\u0F99-\u0FAD\u0FB1-\u0FB7\u0FB9\u20D0-\u20DC\u20E1\u302A-\u302F\u3099\u309A]

Digit=[\u0030-\u0039\u0660-\u0669\u06F0-\u06F9\u0966-\u096F\u09E6-\u09EF\u0A66-\u0A6F\u0AE6-\u0AEF\u0B66-\u0B6F\u0BE7-\u0BEF\u0C66-\u0C6F\u0CE6-\u0CEF\u0D66-\u0D6F\u0E50-\u0E59\u0ED0-\u0ED9\u0F20-\u0F29]

Extender=[\u00B7\u02D0\u02D1\u0387\u0640\u0E46\u0EC6\u3005\u3031-\u3035\u309D-\u309E\u30FC-\u30FE]

NCName=({Letter}|"\_{NCNameStartChar})({NCNameChar})\*

NCNameChar={Letter}|{Digit}|"."-"\_"|{CombiningChar}|{Extender}|{NCNameStartChar}|\u00B7|[\u0300-\u036F]|[\u203F-\u2040]|[\u0130-\u0136]

NCNameStartChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u02FF\u0370-\u037D\u037F-\u1FFF\u200C-\u200D\u2070-\u218F\u2C00-\u2FEF\u3001-\uD7FF\uF900-\uFDCF\uFDF0-\uFFFD]| \u005F |({HighSurrogate}{LowSurrogate})

HighSurrogate=[\uD800-\uDBFF]

LowSurrogate=[\uDC00-\uDFFF]

%%

```
"*"          { return disambiguateStar(); }
"/"          { return newSymbol(sym.SLASH); }
"+"          { return newSymbol(sym.PLUS); }
"-"          { return newSymbol(sym.MINUS); }
"div"        { return disambiguateOperator(sym.DIV); }
"mod"        { return disambiguateOperator(sym.MOD); }
"::"         { return newSymbol(sym.DCOLON); }
","          { return newSymbol(sym.COMMA); }
"@"          { return newSymbol(sym.ATSIGN); }
".."         { return newSymbol(sym.DDOT); }
"|"          { return newSymbol(sym.VBAR); }
"$"          { return newSymbol(sym.DOLLAR); }
"//"          { return newSymbol(sym.DSLASH); }
"="          { return newSymbol(sym.EQ); }
"!="         { return newSymbol(sym.NE); }
"<"         { return newSymbol(sym.LT); }
">"         { return newSymbol(sym.GT); }
"<="        { return newSymbol(sym.LE); }
">="        { return newSymbol(sym.GE); }
"id"          { return disambiguateAxisOrFunction(sym.ID); }
"key"        { return disambiguateAxisOrFunction(sym.KEY); }
"text()"     { return newSymbol(sym.TEXT); }
"text"+[ \t\r\n\f]+"()" { return newSymbol(sym.TEXT); }
"node()"     { return newSymbol(sym.NODE); }
"node"+[ \t\r\n\f]+"()" { return newSymbol(sym.NODE); }
"comment()"  { return newSymbol(sym.COMMENT); }
"comment"+[ \t\r\n\f]+"()" { return newSymbol(sym.COMMENT); }
"processing-instruction"
{ return disambiguateAxisOrFunction(sym.PIPARAM); }
"processing-instruction()" { return newSymbol(sym.PI); }
"processing-instruction"+[ \t\r\n\f]+"()" { return newSymbol(sym.PI); }
"or"         { return disambiguateOperator(sym.OR); }
"and"        { return disambiguateOperator(sym.AND); }
"child"      { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute"  { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor"   { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self" { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant" { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self" { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following"  { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling" { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); }
}
"namespace"  { return disambiguateAxisOrFunction(sym.NAMESPACE); }
```

```

"parent"      { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding"   { return disambiguateAxisOrFunction(sym.PRECEDING); }
"preceding-sibling" { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self"       { return disambiguateAxisOrFunction(sym.SELF); }
"["          { return newSymbol(sym.LBRACK); }
"]"          { return newSymbol(sym.RBRACK); }
"("         { return newSymbol(sym.LPAREN); }
")"         { return newSymbol(sym.RPAREN); }
"<PATTERN>"  { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>" { initialize(); return new Symbol(sym.EXPRESSION); }
\[^\]*\     { return newSymbol(sym.Literal,
            yytext().substring(1, yytext().length() - 1)); }
\[^\]*\'    { return newSymbol(sym.Literal,
            yytext().substring(1,
            yytext().length() - 1)); }
{Digit}+    { return newSymbol(sym.INT, new Long(yytext())); }
{Digit}+(\."{Digit})*? { return newSymbol(sym.REAL, new Double(yytext())); }
"."{Digit}+ { return newSymbol(sym.REAL, new Double(yytext())); }
"."         { return newSymbol(sym.DOT); }
({NCName}":")?{NCName} { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?""*"" { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?""@*" { return newSymbol(sym.QNAME, yytext()); }
[ \t\r\n\f] { /* ignore white space. */ }
.           { throw new Exception(yytext()); }

```

Found in path(s):

```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
jar/org/apache/xalan/xsltc/compiler/xpath.lex
```

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```
/*
```

```

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```

```
*/
```

```
// Proprietary, built in functions
```

/\*\* current function string (Proprietary). \*/

Found in path(s):

\* /opt/cola/permits/1134796662\_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/Keywords.java

# 1.604 commons-cli 1.4

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# 1.605 Isb 10.2019051400

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\* /opt/cola/permits/1135864284\_1613618157.58/0/spring-retry-1-2-5-release-sources-1-jar/org/springframework/retry/stats/StatisticsListener.java

\*  
/opt/cola/permits/1135864284\_1613618157.58/0/spring-retry-1-2-5-release-sources-1-jar/org/springframework/retry/stats/DefaultStatisticsRepository.java

\* /opt/cola/permits/1135864284\_1613618157.58/0/spring-retry-1-2-5-release-sources-1-jar/org/springframework/retry/stats/ExponentialAverageRetryStatistics.java

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\* /opt/cola/permits/1135864284\_1613618157.58/0/spring-retry-1-2-5-release-sources-1-jar/org/springframework/retry/stats/StatisticsRepository.java

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jar/org/springframework/classify/BinaryExceptionClassifier.java  
\* /opt/cola/permits/1135864284\_1613618157.58/0/spring-retry-1-2-5-release-sources-1-  
jar/org/springframework/retry/policy/SimpleRetryPolicy.java  
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/opt/cola/permits/1135864284\_1613618157.58/0/spring-retry-1-2-5-release-sources-1-  
jar/org/springframework/classify/SubclassClassifier.java

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jar/org/springframework/retry/policy/CircuitBreakerRetryPolicy.java  
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jar/org/springframework/retry/policy/ExpressionRetryPolicy.java

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\* /opt/cola/permits/1135864284\_1613618157.58/0/spring-retry-1-2-5-release-sources-1-jar/org/springframework/retry/ExhaustedRetryException.java  
\* /opt/cola/permits/1135864284\_1613618157.58/0/spring-retry-1-2-5-release-sources-1-jar/org/springframework/retry/policy/RetryCacheCapacityExceededException.java  
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\* /opt/cola/permits/1135864284\_1613618157.58/0/spring-retry-1-2-5-release-sources-1-jar/org/springframework/classify/annotation/Classifier.java  
\* /opt/cola/permits/1135864284\_1613618157.58/0/spring-retry-1-2-5-release-sources-1-jar/org/springframework/classify/BackToBackPatternClassifier.java  
\* /opt/cola/permits/1135864284\_1613618157.58/0/spring-retry-1-2-5-release-sources-1-jar/org/springframework/retry/support/RetrySimulator.java  
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jar/org/springframework/retry/TerminatedRetryException.java  
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jar/org/springframework/retry/RetryException.java  
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jar/org/springframework/retry/backoff/StatelessBackOffPolicy.java  
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jar/org/springframework/retry/RetryOperations.java  
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jar/org/springframework/retry/support/RetrySynchronizationManager.java  
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\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java  
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/opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/Processor.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/SAXFieldAdapter.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/ASMContentHandler.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/SAXCodeAdapter.java  
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\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/asm-xml.dtd

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/\*\*

\* Creates a new {@link GeneratorAdapter}. *Subclasses must not use this*

\* constructor*.* Instead, they must use the

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

\* version.

\*

\* @param mv



```
*      the
method visitor to which this adapter delegates calls.
* @param access
*      the method's access flags (see { @link Opcodes}).
* @param name
*      the method's name.
* @param desc
*      the method's descriptor (see { @link Type Type}).
* @throws IllegalStateException
*      If a subclass calls this constructor.
*/
```

Found in path(s):

```
*/opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/GeneratorAdapter.java
```

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*/
```

```
/**
```

```

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

```

Found in path(s):

```

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/JSRInlinerAdapter.java

```

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```

```
*/
```

```
/**
```

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

```
 *
```

```
 * @throws IllegalStateException
```

```
 *     If a subclass calls this constructor.
```

```
 */
```

Found in path(s):

```
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/ClassNode.java
```

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\*/

/\*\*

\* Constructs a new {@link Textifier}. *Subclasses must not use this  
\* constructor*. Instead, they must use the {@link #Textifier(int)}  
\* version.

\*

\* @throws IllegalStateException

\* If a subclass calls this constructor.

\*/

Found in path(s):

\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/Textifier.java

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\*/

/\*\*

\* Constructs a new {@link LocalVariableAnnotationNode}. *<i>Subclasses must*  
\* not use this constructor*</i>. Instead, they must use the*

\* {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}

\* version.

\*

\* @param typeRef

\* a reference to the annotated type. See {@link TypeReference}.

\* @param typePath

\* the path to the annotated type argument, wildcard bound, array  
\* element type, or static inner type within 'typeRef'. May be  
\* `<tt>null</tt>` if the annotation targets 'typeRef' as a whole.

\* @param start

\* the first instructions corresponding to the continuous ranges  
\* that make the scope of this local variable (inclusive).

\* @param end

\* the last instructions corresponding to the continuous ranges  
\* that make the scope of this local variable (exclusive). This  
\* array must have the same size as the 'start' array.

\* @param index

\* the local variable's index in each range. This array must have  
\* the same size as the 'start' array.

\* @param desc

\* the class descriptor of

the annotation class.

\*/

Found in path(s):

\*/opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-  
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\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Label.java  
 \* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Type.java  
 \* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/AnnotationWriter.java  
 \*  
 \* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java  
 \* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/NameMapping.java  
 \* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/Printer.java  
 \* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/Shrinker.java  
 \* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/Method.java  
 \* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java  
 \* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java  
 \* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java  
 \*  
 \* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/ClassWriter.java  
 \* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Attribute.java  
 \* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java  
 \* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/MethodInsnNode.java

\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/MethodVisitor.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/TraceFieldVisitor.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SourceValue.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/AdviceAdapter.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/Remapper.java  
\*  
/opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/BasicValue.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/FieldWriter.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/ByteVector.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/AbstractInsnNode.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/Interpreter.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/JumpInsnNode.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/TableSwitchGenerator.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/FieldNode.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/FieldInsnNode.java  
\*  
/opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/LabelNode.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckSignatureAdapter.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/InstructionAdapter.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/IntInsnNode.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingClassAdapter.java  
\*  
/opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/ClassReader.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/VarInsnNode.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-

```

jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/analysis/Value.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/StaticInitMerger.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/AnnotationVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/InsnNode.java
*
/opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/LineNumberNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/optimizer/JarOptimizer.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/optimizer/Constant.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/TypeAnnotationNode.java
*
/opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Handle.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/TryCatchBlockNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/optimizer/ClassOptimizer.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/ASMifier.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/util/TraceClassVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/analysis/Frame.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
*
/opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-

```



```

jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/InnerClassNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/ParameterNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
*
/opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/TypeInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/InsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/optimizer/MethodOptimizer.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Frame.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/util/CheckMethodAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/SimpleRemapper.java
*
/opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/AnnotationNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/FieldVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Context.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Handler.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/MethodNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/InsnList.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
*

```

/opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/MethodWriter.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/signature/SignatureWriter.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/TryCatchBlockSorter.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Item.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Edge.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/ClassVisitor.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/FrameNode.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/ConstantPool.java  
\*  
/opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Opcodes.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckClassAdapter.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/signature/SignatureVisitor.java  
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\*/  
/\*\*

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

Found in path(s):

\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-  
jar/org/objectweb/asm/commons/AnalyzerAdapter.java

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annotations.properties

\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink-  
frames.properties

\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink-  
resize.properties

\*

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signatures.properties

\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-  
jar/org/objectweb/asm/optimizer/shrink.properties

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writer.properties

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- \* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/TypePath.java
- \* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/TypeReference.java

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\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/Textifiable.java  
\* /opt/cola/permits/1135863767\_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/ASMifiable.java

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* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
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* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
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* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/jmx/export/metadata/InvalidMetadataException.java
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 jar/org/springframework/remoting/support/RemoteInvocationTraceInterceptor.java  
 \* /opt/cola/permits/1135872461\_1613620742.75/0/spring-context-5-2-12-release-sources-  
 jar/org/springframework/scheduling/SchedulingAwareRunnable.java

\* /opt/cola/permits/1135872461\_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/jmx/export/MBeanExporterListener.java

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/opt/cola/permits/1135872461\_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/scheduling/SchedulingException.java

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\* /opt/cola/permits/1135872461\_1613620742.75/0/spring-context-5-2-12-release-sources-

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jar/org/springframework/format/datetime/joda/LocalDateTimeParser.java
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jar/org/springframework/format/datetime/joda/MillisecondInstantPrinter.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
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* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
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* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
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* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/format/datetime/joda/LocalTimeParser.java
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* limitations under the License.
*/
* {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}

```

\* reference through WebSphere's proprietary { @code AdminServiceFactory } API,  
 \* available on WebSphere 5.1 and higher.  
 \*  
 \* <p>Exposes the { @code MBeanServer } for bean references.  
 \*  
 \* <p>This { @code FactoryBean } is  
 a direct alternative to { @link MBeanServerFactoryBean },  
 \* which uses standard JMX 1.2 API to access the platform's { @link MBeanServer }.  
 \*  
 \* <p>See the javadocs for WebSphere's  
 \* <a  
 href="https://www.ibm.com/support/knowledgecenter/SSEQTJ\_9.0.0/com.ibm.websphere.javadoc.doc/web/apidocs  
 /com/ibm/websphere/management/AdminServiceFactory.html">{ @code AdminServiceFactory }</a>  
 \* and  
 \* <a  
 href="https://www.ibm.com/support/knowledgecenter/SSEQTJ\_9.0.0/com.ibm.websphere.javadoc.doc/web/apidocs  
 /com/ibm/websphere/management/MBeanFactory.html">{ @code MBeanFactory }</a>.  
 \*  
 \* @author Juergen Hoeller  
 \* @author Rob Harrop  
 \* @since 2.0.3  
 \* @see javax.management.MBeanServer  
 \* @see MBeanServerFactoryBean  
 \*/

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\* /opt/cola/permits/1135872461\_1613620742.75/0/spring-context-5-2-12-release-sources-  
 jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java

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\* /opt/cola/permits/1135872461\_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/validation/annotation/Validated.java  
\* /opt/cola/permits/1135872461\_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/scheduling/config/ContextLifecycleScheduledTaskRegistrar.java  
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/opt/cola/permits/1135872461\_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/format/AnnotationFormatterFactory.java  
\* /opt/cola/permits/1135872461\_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java  
\* /opt/cola/permits/1135872461\_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/cache/interceptor/BasicOperation.java  
\* /opt/cola/permits/1135872461\_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/context/annotation/PropertySources.java  
\* /opt/cola/permits/1135872461\_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/scheduling/annotation/AsyncConfigurerSupport.java  
\* /opt/cola/permits/1135872461\_1613620742.75/0/spring-context-5-2-12-release-sources-

jar/org/springframework/context/ApplicationContext.java

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jar/org/springframework/validation/support/BindingAwareModelMap.java
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* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
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* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/jndi/JndiAccessor.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/jmx/export/metadata/ManagedResource.java
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\* /opt/cola/permits/1135872461\_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/context/support/DelegatingMessageSource.java

\* /opt/cola/permits/1135872461\_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/context/EnvironmentAware.java

\* /opt/cola/permits/1135872461\_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/jmx/export/NotificationListenerBean.java

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/opt/cola/permits/1135872461\_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/jndi/JndiObjectTargetSource.java

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\* /opt/cola/permits/1135872461\_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/cache/interceptor/NamedCacheResolver.java  
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* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/context/support/ConversionServiceFactoryBean.java
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```
*/
```

```
/**
```

```
* Abstract the invocation of a cache operation.
```

```
*
```

```
* <p>Does not provide a way to transmit checked exceptions but
```

```
* provide a special exception that should be used to wrap any
```

```
* exception that was thrown by the underlying invocation.
```

```
* Callers are expected to handle this issue type specifically.
```

```
*
```

```
* @author Stephane Nicoll
```

```
* @since 4.1
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
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 */
```

Found in path(s):

```
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/validation/beanvalidation/SpringConstraintValidatorFactory.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/cache/annotation/CacheConfig.java
*
/opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/format/datetime/joda/DurationFormatter.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/context/PayloadApplicationEvent.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/jmx/export/annotation/ManagedResource.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/format/datetime/joda/YearMonthFormatter.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/jmx/export/annotation/ManagedNotification.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/jmx/export/annotation/ManagedOperationParameters.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/scheduling/config/AnnotationDrivenBeanDefinitionParser.java
*
/opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/context/annotation/ImportResource.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/format/datetime/joda/PeriodFormatter.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/format/number/PercentStyleFormatter.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/jmx/export/annotation/ManagedMetric.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/context/event/EventListenerFactory.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
```

```
jar/org/springframework/remoting/RemoteTimeoutException.java
*
/opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/scripting/config/LangNamespaceHandler.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/jmx/export/annotation/ManagedOperation.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/context/annotation/ComponentScans.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/scripting/support/StandardScriptEvalException.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/scripting/ScriptEvaluator.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/context/annotation/Role.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/format/number/money/CurrencyUnitFormatter.java
*
/opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/scheduling/support/CronTrigger.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/format/datetime/joda/MonthDayFormatter.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/jmx/export/annotation/ManagedOperationParameter.java
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Found in path(s):

```
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/remoting/support/RemoteInvocationFactory.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/remoting/support/RemoteInvocationExecutor.java
*
```

```
/opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/jmx/export/SpringModelMBean.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/jmx/export/metadata/ManagedOperationParameter.java
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```
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* limitations under the License.
*/
/**
* Indicates that a component is only eligible for registration when all
* { @linkplain #value specified conditions } match.
*
* <p>A <em>condition</em> is any state that can be determined programmatically
* before the bean definition is due to be registered (see { @link Condition } for details).
*
*
* <p>The { @code @Conditional } annotation may be used in any of the following ways:
* <ul>
* <li>as a type-level annotation on any class directly or indirectly annotated with
* { @code @Component }, including { @link Configuration @Configuration } classes</li>
* <li>as a meta-annotation, for the purpose of composing custom stereotype
* annotations</li>
* <li>as a method-level annotation on any { @link Bean @Bean } method</li>
* </ul>
*
* <p>If a { @code @Configuration } class is marked with { @code @Conditional },
* all of the { @code @Bean } methods, { @link Import @Import } annotations, and
* { @link ComponentScan @ComponentScan } annotations associated with that
* class will be subject to the conditions.
*
* <p><strong>NOTE</strong>: Inheritance of { @code @Conditional } annotations
* is not supported; any conditions from superclasses or from overridden
* methods will not be considered. In order to enforce these semantics,
* { @code @Conditional } itself is not declared as
* { @link java.lang.annotation.Inherited
```

```
@Inherited}); furthermore, any
* custom <em>composed annotation</em> that is meta-annotated with
* { @code @Conditional } must not be declared as { @code @Inherited }.
*
* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/
```

Found in path(s):

```
*/opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/context/annotation/Conditional.java
```

# 1.620 httpcomponents-core 4.4.14

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# 1.621 json-smart 2.3

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```
* /opt/cola/permits/1135872708_1613620849.69/0/json-smart-2-3-sources-2-
jar/net/minidev/json/writer/DefaultMapper.java
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```
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jar/net/minidev/json/writer/DefaultMapperOrdered.java
```

```
* /opt/cola/permits/1135872708_1613620849.69/0/json-smart-2-3-sources-2-
jar/net/minidev/json/JSONStreamAware.java
```

```
* /opt/cola/permits/1135872708_1613620849.69/0/json-smart-2-3-sources-2-
jar/net/minidev/json/writer/ArraysMapper.java
```

```
*
```

/opt/cola/permits/1135872708\_1613620849.69/0/json-smart-2-3-sources-2-jar/net/minidev/json/parser/JSONParserStream.java  
\* /opt/cola/permits/1135872708\_1613620849.69/0/json-smart-2-3-sources-2-jar/net/minidev/json/writer/FakeMapper.java  
\* /opt/cola/permits/1135872708\_1613620849.69/0/json-smart-2-3-sources-2-jar/net/minidev/json/JSONAware.java  
\* /opt/cola/permits/1135872708\_1613620849.69/0/json-smart-2-3-sources-2-jar/net/minidev/json/JSONNavi.java  
\* /opt/cola/permits/1135872708\_1613620849.69/0/json-smart-2-3-sources-2-jar/net/minidev/json/parser/JSONParser.java  
\* /opt/cola/permits/1135872708\_1613620849.69/0/json-smart-2-3-sources-2-jar/net/minidev/json/JStylerObj.java  
\* /opt/cola/permits/1135872708\_1613620849.69/0/json-smart-2-3-sources-2-jar/net/minidev/json/JSONStreamAwareEx.java  
\* /opt/cola/permits/1135872708\_1613620849.69/0/json-smart-2-3-sources-2-jar/net/minidev/json/JSONUtil.java  
\* /opt/cola/permits/1135872708\_1613620849.69/0/json-smart-2-3-sources-2-jar/net/minidev/json/JSONValue.java  
\*  
/opt/cola/permits/1135872708\_1613620849.69/0/json-smart-2-3-sources-2-jar/net/minidev/json/parser/JSONParserBase.java  
\* /opt/cola/permits/1135872708\_1613620849.69/0/json-smart-2-3-sources-2-jar/net/minidev/json/parser/JSONParserInputStream.java  
\* /opt/cola/permits/1135872708\_1613620849.69/0/json-smart-2-3-sources-2-jar/net/minidev/json/writer/JsonReader.java  
\* /opt/cola/permits/1135872708\_1613620849.69/0/json-smart-2-3-sources-2-jar/net/minidev/json/writer/CompressorMapper.java  
\* /opt/cola/permits/1135872708\_1613620849.69/0/json-smart-2-3-sources-2-jar/net/minidev/json/JSONStyle.java  
\* /opt/cola/permits/1135872708\_1613620849.69/0/json-smart-2-3-sources-2-jar/net/minidev/json/JSONObject.java  
\* /opt/cola/permits/1135872708\_1613620849.69/0/json-smart-2-3-sources-2-jar/net/minidev/json/parser/JSONParserMemory.java  
\* /opt/cola/permits/1135872708\_1613620849.69/0/json-smart-2-3-sources-2-jar/net/minidev/json/parser/JSONParserReader.java  
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\* /opt/cola/permits/1135872708\_1613620849.69/0/json-smart-2-3-sources-2-jar/net/minidev/json/writer/DefaultMapperCollection.java  
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\* /opt/cola/permits/1135872708\_1613620849.69/0/json-smart-2-3-sources-2-jar/net/minidev/json/parser/ParseException.java  
\* /opt/cola/permits/1135872708\_1613620849.69/0/json-smart-2-3-sources-2-jar/net/minidev/json/parser/JSONParserByteArray.java



# 1.622 commons-configuration 1.10

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# 1.623 jakarta-el 3.0.3

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jar/org/springframework/transaction/annotation/AnnotationTransactionAttributeSource.java
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jar/org/springframework/transaction/annotation/Propagation.java
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jar/org/springframework/transaction/interceptor/MethodMapTransactionAttributeSource.java
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jar/org/springframework/transaction/TransactionExecution.java
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jar/org/springframework/transaction/support/WithoutTransactionOperations.java
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jar/org/springframework/transaction/event/ApplicationListenerMethodTransactionalAdapter.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-
jar/org/springframework/transaction/config/JtaTransactionManagerFactoryBean.java
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jar/org/springframework/transaction/TransactionDefinition.java  
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jar/org/springframework/transaction/interceptor/TransactionAttributeSource.java  
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jar/org/springframework/transaction/reactive/TransactionalOperatorImpl.java  
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jar/org/springframework/transaction/reactive/TransactionSynchronizationUtils.java  
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jar/org/springframework/transaction/interceptor/TransactionAttribute.java  
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jar/org/springframework/transaction/reactive/ReactiveResourceSynchronization.java  
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jar/org/springframework/transaction/TransactionManager.java  
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jar/org/springframework/transaction/interceptor/TransactionAttributeEditor.java  
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jar/org/springframework/transaction/reactive/TransactionContextHolder.java  
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jar/org/springframework/transaction/support/DefaultTransactionStatus.java  
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jar/org/springframework/transaction/ReactiveTransaction.java  
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jar/org/springframework/transaction/StaticTransactionDefinition.java  
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* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-
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* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-
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* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-
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jar/org/springframework/dao/CannotAcquireLockException.java  
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\* /opt/cola/permits/1135872481\_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/transaction/support/ResourceTransactionDefinition.java

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\* /opt/cola/permits/1135872481\_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/transaction/SavepointManager.java

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- \* /opt/cola/permits/1135872481\_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeSourceAdvisor.java
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- /opt/cola/permits/1135872481\_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/transaction/support/CallbackPreferringPlatformTransactionManager.java
- \* /opt/cola/permits/1135872481\_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/jca/cci/connection/ConnectionSpecConnectionFactoryAdapter.java
- \* /opt/cola/permits/1135872481\_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/jca/cci/object/EisOperation.java
- \* /opt/cola/permits/1135872481\_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/jca/support/ResourceAdapterFactoryBean.java
- \* /opt/cola/permits/1135872481\_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/dao/NonTransientDataAccessResourceException.java
- \* /opt/cola/permits/1135872481\_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/dao/NonTransientDataAccessException.java
- \* /opt/cola/permits/1135872481\_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/dao/UncategorizedDataAccessException.java
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- /opt/cola/permits/1135872481\_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/dao/DataAccessResourceFailureException.java
- \* /opt/cola/permits/1135872481\_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/transaction/event/TransactionPhase.java
- \* /opt/cola/permits/1135872481\_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/dao/OptimisticLockingFailureException.java
- \* /opt/cola/permits/1135872481\_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/jca/context/BootstrapContextAwareProcessor.java
- \* /opt/cola/permits/1135872481\_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/dao/ConcurrencyFailureException.java
- \* /opt/cola/permits/1135872481\_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/dao/TransientDataAccessException.java
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- /opt/cola/permits/1135872481\_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/jca/cci/core/support/CommAreaRecord.java
- \* /opt/cola/permits/1135872481\_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/transaction/TransactionSystemException.java
- \* /opt/cola/permits/1135872481\_1613620989.54/0/spring-tx-5-2-12-release-sources-

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jar/org/springframework/jca/support/SimpleBootstrapContext.java
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jar/org/springframework/dao/DataAccessException.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-
jar/org/springframework/jca/context/ResourceAdapterApplicationContext.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-
jar/org/springframework/dao/DataRetrievalFailureException.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-
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/opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-
jar/org/springframework/jca/cci/core/CciOperations.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-
jar/org/springframework/transaction/support/TransactionCallbackWithoutResult.java
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```

# 1.626 spring-aop 5.2.12.RELEASE

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\* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/AfterReturningAdvice.java  
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\* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/framework/adapter/UnknownAdviceTypeException.java  
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\* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/config/ScopedProxyBeanDefinitionDecorator.java  
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/opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/framework/adapter/AdvisorAdapterRegistrationManager.java  
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\* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/framework/AopProxyFactory.java  
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\* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/IntroductionAdvisor.java  
\* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/PointcutAdvisor.java  
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/opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/target/PoolingConfig.java  
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- \*
- /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/support/IntroductionInfoSupport.java
- \* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/framework/adapters/DefaultAdvisorAdapterRegistry.java
- \* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/IntroductionAwareMethodMatcher.java
- \* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/framework/ProxyCreatorSupport.java
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- \* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/framework/autoproxy/AutoProxyUtils.java
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- \* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/framework/AbstractSingletonProxyFactoryBean.java

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 \* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-  
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 \* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-  
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 \* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-  
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jar/org/springframework/aop/aspectj/DeclareParentsAdvisor.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/aopalliance/aop/AspectException.java
*
/opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/target/AbstractPoolingTargetSource.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/target/AbstractPrototypeBasedTargetSource.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/config/AopNamespaceUtils.java
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jar/org/aopalliance/aop/Advice.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/aopalliance/intercept/Invocation.java
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/opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/config/AspectJAutoProxyBeanDefinitionParser.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/framework/autoproxy/TargetSourceCreator.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
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* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
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* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/target/ThreadLocalTargetSource.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
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* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
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*
/opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/aspectj/annotation/SimpleMetadataAwareAspectInstanceFactory.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/aopalliance/intercept/MethodInvocation.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/aspectj/annotation/SingletonMetadataAwareAspectInstanceFactory.java
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jar/org/springframework/aop/BeforeAdvice.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
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* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/IntroductionInterceptor.java
*
/opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/RawTargetAccess.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/SpringProxy.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/framework/AopInfrastructureBean.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/framework/InterceptorAndDynamicMethodMatcher.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/AfterAdvice.java
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\* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/framework/autoproxy/AbstractAdvisorAutoProxyCreator.java  
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\* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/config/AopNamespaceHandler.java  
\* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/framework/adapter/MethodBeforeAdviceInterceptor.java



\* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/aspectj/autoproxy/AspectJAwareAdvisorAutoProxyCreator.java  
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\* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/interceptor/CustomizableTraceInterceptor.java  
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\* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/aspectj/annotation/ReflectiveAspectJAdvisorFactory.java  
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- \* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/framework/ObjenesisCglibAopProxy.java
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- \* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/interceptor/AsyncUncaughtExceptionHandler.java
- \* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/support/annotation/AnnotationMatchingPointcut.java
- \* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/aopalliance/intercept/Interceptor.java
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- \* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/framework/JdkDynamicAopProxy.java
- \* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/support/NameMatchMethodPointcut.java
- \* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/aspectj/annotation/AspectMetadata.java
- \* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/support/ControlFlowPointcut.java
- \* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/aspectj/AbstractAspectJAdvice.java
- \* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/support/annotation/AnnotationMethodMatcher.java
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- \* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/aspectj/AspectJProxyUtils.java
- \* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/support/AopUtils.java
- \* /opt/cola/permits/1135872535\_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/ClassFilter.java

```
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/MethodMatcher.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/support/DefaultIntroductionAdvisor.java
*
/opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/scope/ScopedProxyUtils.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/framework/AopProxyUtils.java
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```
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/target/PrototypeTargetSource.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/support/NameMatchMethodPointcutAdvisor.java
*
/opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/framework/autoproxy/target/LazyInitTargetSourceCreator.java
```

## 1.627 classmate 1.5.1

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

\* Brian Langel

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```
* /opt/cola/permits/1135872825_1613621009.27/0/accessors-smart-1-2-sources-4-
jar/net/minidev/asm/ASMUtil.java
* /opt/cola/permits/1135872825_1613621009.27/0/accessors-smart-1-2-sources-4-
jar/net/minidev/asm/BeansAccess.java
* /opt/cola/permits/1135872825_1613621009.27/0/accessors-smart-1-2-sources-4-
jar/net/minidev/asm/Accessor.java
*
/opt/cola/permits/1135872825_1613621009.27/0/accessors-smart-1-2-sources-4-
jar/net/minidev/asm/DynamicClassLoader.java
```

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jar/org/springframework/beans/propertyeditors/StringArrayPropertyEditor.java
* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-
jar/org/springframework/beans/propertyeditors/UIDEditor.java
*
```

/opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/ExtendedBeanInfo.java  
\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/config/AutowiredPropertyMarker.java  
\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/config/PreferencesPlaceholderConfigurer.java  
\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/annotation/AnnotatedGenericBeanDefinition.java  
\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/PropertyDescriptorUtils.java  
\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/support/RootBeanDefinition.java  
\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/TypeConverterSupport.java  
\*  
/opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/annotation/AnnotationBeanUtils.java  
\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/config/BeanDefinitionVisitor.java  
\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/BeanMetadataElement.java  
\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/TypeConverterDelegate.java  
\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/PropertyBatchUpdateException.java  
\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/config/YamlMapFactoryBean.java  
\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/TypeConverter.java  
\*  
/opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/propertyeditors/CustomCollectionEditor.java  
\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/support/DefaultBeanNameGenerator.java  
\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/support/AutowireUtils.java  
\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/annotation/InitDestroyAnnotationBeanPostProcessor.java  
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\*  
/opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/xml/BeansDtdResolver.java  
\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/PropertyValue.java  
\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-

jar/org/springframework/beans/factory/xml/ResourceEntityResolver.java  
 \* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
 jar/org/springframework/beans/propertyeditors/StringTrimmerEditor.java  
 \* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
 jar/org/springframework/beans/factory/config/BeanFactoryPostProcessor.java  
 \* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
 jar/org/springframework/beans/factory/config/BeanPostProcessor.java  
 \* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
 jar/org/springframework/beans/factory/support/DisposableBeanAdapter.java  
 \*  
 /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
 jar/org/springframework/beans/factory/xml/DelegatingEntityResolver.java  
 \* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
 jar/org/springframework/beans/factory/groovy/GroovyBeanDefinitionReader.java  
 \* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
 jar/org/springframework/beans/factory/config/AutowireCapableBeanFactory.java  
 \* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
 jar/org/springframework/beans/factory/support/GenericBeanDefinition.java  
 \* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
 jar/org/springframework/beans/factory/BeanFactoryUtils.java  
 \* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
 jar/org/springframework/beans/factory/annotation/Autowired.java  
 \*  
 /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
 jar/org/springframework/beans/factory/xml/PluggableSchemaResolver.java  
 \* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
 jar/org/springframework/beans/factory/support/BeanDefinitionBuilder.java  
 \* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
 jar/org/springframework/beans/factory/support/MethodOverrides.java  
 \* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
 jar/org/springframework/beans/factory/config/RuntimeBeanReference.java  
 \* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
 jar/org/springframework/beans/factory/config/InstantiationAwareBeanPostProcessor.java  
 \* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
 jar/org/springframework/beans/factory/config/YamlPropertiesFactoryBean.java  
 \* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
 jar/org/springframework/beans/factory/annotation/ParameterResolutionDelegate.java  
 \*  
 /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
 jar/org/springframework/beans/factory/config/PropertyPlaceholderConfigurer.java  
 \* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
 jar/org/springframework/beans/propertyeditors/CustomMapEditor.java  
 \* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
 jar/org/springframework/beans/factory/groovy/GroovyBeanDefinitionWrapper.java  
 \* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
 jar/org/springframework/beans/factory/config/TypedStringValue.java  
 \* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
 jar/org/springframework/beans/factory/InjectionPoint.java

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* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-
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\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/PropertyEditorRegistry.java  
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\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/xml/BeanDefinitionDecorator.java  
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/opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/xml/NamespaceHandler.java

\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/xml/DocumentLoader.java  
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\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/support/BeanDefinitionValidationException.java  
\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/HierarchicalBeanFactory.java  
\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/BeanCreationNotAllowedException.java  
\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/config/BeanReference.java  
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/opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/BeanIsAbstractException.java  
\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/parsing/AbstractComponentDefinition.java  
\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/propertyeditors/CurrencyEditor.java

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\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/NotReadablePropertyException.java

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/opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/SmartInitializingSingleton.java

\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/xml/AbstractSimpleBeanDefinitionParser.java

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* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-
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* /opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-
jar/org/springframework/beans/BeanInfoFactory.java
*
/opt/cola/permits/1135872447_1613620979.46/0/spring-beans-5-2-12-release-sources-
jar/org/springframework/beans/ExtendedBeanInfoFactory.java
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jar/org/springframework/beans/SimpleTypeConverter.java  
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  - \* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/factory/annotation/Qualifier.java
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- \* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-jar/org/springframework/beans/propertyeditors/ClassEditor.java
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jar/org/springframework/beans/MethodInvocationException.java  
\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
jar/org/springframework/beans/factory/ObjectFactory.java  
\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
jar/org/springframework/beans/factory/UnsatisfiedDependencyException.java  
\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
jar/org/springframework/beans/propertyeditors/CustomDateEditor.java  
\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
jar/org/springframework/beans/Mergeable.java  
\*  
/opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
jar/org/springframework/beans/factory/CannotLoadBeanClassException.java  
\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
jar/org/springframework/beans/NotWritablePropertyException.java  
\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
jar/org/springframework/beans/factory/support/AutowireCandidateQualifier.java  
\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
jar/org/springframework/beans/factory/config/AbstractFactoryBean.java  
\* /opt/cola/permits/1135872447\_1613620979.46/0/spring-beans-5-2-12-release-sources-  
jar/org/springframework/beans/factory/xml/AbstractBeanDefinitionParser.java

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\* <https://github.com/eclipse-ee4j/jaf>

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JUnit (4.12)

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# 1.635 spring-expression 5.2.12.RELEASE

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\* /opt/cola/permits/1135872690\_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/ExpressionException.java

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\* /opt/cola/permits/1135872690\_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/spel/ast/FormatHelper.java

\* /opt/cola/permits/1135872690\_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/common/LiteralExpression.java

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/opt/cola/permits/1135872690\_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java

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\* /opt/cola/permits/1135872690\_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/spel/support/StandardTypeConverter.java

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- /opt/cola/permits/1135872690\_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/AccessException.java
- \* /opt/cola/permits/1135872690\_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
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/opt/cola/permits/1135872690\_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/spel/ast/MethodReference.java  
\* /opt/cola/permits/1135872690\_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/spel/standard/SpelCompiler.java  
\* /opt/cola/permits/1135872690\_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java  
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\* /opt/cola/permits/1135872690\_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/MethodFilter.java  
\* /opt/cola/permits/1135872690\_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/EvaluationException.java  
\*

/opt/cola/permits/1135872690\_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/spel/standard/TokenKind.java  
\* /opt/cola/permits/1135872690\_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/ConstructorResolver.java

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\* /opt/cola/permits/1135872690\_1613620730.6/0/spring-expression-5-2-12-release-sources-jar/org/springframework/expression/ExpressionParser.java

## 1.636 jcl-over-slf4j 1.7.30

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jar/org/apache/commons/logging/LogFactory.java
* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-
jar/org/apache/commons/logging/impl/SLF4JLogFactory.java
* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-
jar/org/apache/commons/logging/LogConfigurationException.java
*
/opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-
jar/org/apache/commons/logging/Log.java
* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-
jar/org/apache/commons/logging/impl/SimpleLog.java
* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-
jar/org/apache/commons/logging/impl/NoOpLog.java
* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-
jar/org/apache/commons/logging/impl/SLF4JLocationAwareLog.java
* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-
jar/org/apache/commons/logging/impl/SLF4JLog.java
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# 1.637 spring-orm 5.2.7.RELEASE

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jar/org/springframework/orm/jpa/persistenceunit/SmartPersistenceUnitInfo.java

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\* /opt/cola/permits/1135880033\_1613624256.69/0/spring-orm-5-2-7-release-sources-1-jar/org/springframework/orm/jpa/ExtendedEntityManagerCreator.java  
\*  
/opt/cola/permits/1135880033\_1613624256.69/0/spring-orm-5-2-7-release-sources-1-jar/org/springframework/orm/jpa/vendor/HibernateJpaVendorAdapter.java  
\* /opt/cola/permits/1135880033\_1613624256.69/0/spring-orm-5-2-7-release-sources-1-jar/org/springframework/orm/hibernate5/support/OpenSessionInViewFilter.java  
\* /opt/cola/permits/1135880033\_1613624256.69/0/spring-orm-5-2-7-release-sources-1-jar/org/springframework/orm/jpa/vendor/HibernateJpaDialect.java  
\* /opt/cola/permits/1135880033\_1613624256.69/0/spring-orm-5-2-7-release-sources-1-jar/org/springframework/orm/hibernate5/LocalSessionFactoryBean.java  
\* /opt/cola/permits/1135880033\_1613624256.69/0/spring-orm-5-2-7-release-sources-1-jar/org/springframework/orm/hibernate5/SpringBeanContainer.java  
\* /opt/cola/permits/1135880033\_1613624256.69/0/spring-orm-5-2-7-release-sources-1-jar/org/springframework/orm/hibernate5/SessionFactoryUtils.java  
\* /opt/cola/permits/1135880033\_1613624256.69/0/spring-orm-5-2-7-release-sources-1-jar/org/springframework/orm/jpa/EntityManagerFactoryUtils.java  
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  - \* /opt/cola/permits/1135880033\_1613624256.69/0/spring-orm-5-2-7-release-sources-1-jar/org/springframework/orm/jpa/persistenceunit/MutablePersistenceUnitInfo.java
  - \*
  - /opt/cola/permits/1135880033\_1613624256.69/0/spring-orm-5-2-7-release-sources-1-jar/org/springframework/orm/jpa/support/OpenEntityManagerInViewFilter.java
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  - \* /opt/cola/permits/1135880033\_1613624256.69/0/spring-orm-5-2-7-release-sources-1-jar/org/springframework/orm/hibernate5/support/OpenSessionInterceptor.java
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  - \*
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  - \* /opt/cola/permits/1135880033\_1613624256.69/0/spring-orm-5-2-7-release-sources-1-jar/org/springframework/orm/hibernate5/HibernateSystemException.java
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\*

/opt/cola/permits/1135880033\_1613624256.69/0/spring-orm-5-2-7-release-sources-1-jar/org/springframework/orm/hibernate5/HibernateJdbcException.java

\* /opt/cola/permits/1135880033\_1613624256.69/0/spring-orm-5-2-7-release-sources-1-jar/org/springframework/orm/hibernate5/HibernateQueryException.java

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/\*\*

\* Create a transactional EntityManager proxy for the given EntityManagerFactory.

\* @param emf the EntityManagerFactory to obtain EntityManagers from as needed

\* @param properties the properties to be passed into the

\* {@code createEntityManager} call (may be {@code null})

\* @param entityManagerInterfaces

the interfaces to be implemented by the

\* EntityManager. Allows the addition or specification of proprietary interfaces.

\* @return a shareable transactional EntityManager proxy

\*/

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\* /opt/cola/permits/1135880033\_1613624256.69/0/spring-orm-5-2-7-release-sources-1-jar/org/springframework/orm/jpa/SharedEntityManagerCreator.java

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jar/org/springframework/orm/jpa/persistenceunit/ClassFileTransformerAdapter.java  
\*  
/opt/cola/permits/1135880033\_1613624256.69/0/spring-orm-5-2-7-release-sources-1-  
jar/org/springframework/orm/hibernate5/SpringSessionSynchronization.java  
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jar/org/springframework/orm/hibernate5/SpringJtaSessionContext.java  
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jar/org/springframework/orm/hibernate5/support/OpenSessionInViewInterceptor.java

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/opt/cola/permits/1135880033\_1613624256.69/0/spring-orm-5-2-7-release-sources-1-jar/org/springframework/orm/hibernate5/HibernateExceptionTranslator.java  
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\*  
/opt/cola/permits/1135880033\_1613624256.69/0/spring-orm-5-2-7-release-sources-1-jar/org/springframework/orm/ObjectRetrievalFailureException.java  
\* /opt/cola/permits/1135880033\_1613624256.69/0/spring-orm-5-2-7-release-sources-1-jar/org/springframework/orm/jpa/AbstractEntityManagerFactoryBean.java  
\* /opt/cola/permits/1135880033\_1613624256.69/0/spring-orm-5-2-7-release-sources-1-jar/org/springframework/orm/hibernate5/SpringFlushSynchronization.java  
\* /opt/cola/permits/1135880033\_1613624256.69/0/spring-orm-5-2-7-release-sources-1-jar/org/springframework/orm/jpa/vendor/EclipseLinkJpaVendorAdapter.java  
\* /opt/cola/permits/1135880033\_1613624256.69/0/spring-orm-5-2-7-release-sources-1-jar/org/springframework/orm/jpa/support/OpenEntityManagerInViewInterceptor.java  
\* /opt/cola/permits/1135880033\_1613624256.69/0/spring-orm-5-2-7-release-sources-1-jar/org/springframework/orm/jpa/EntityManagerFactoryAccessor.java  
\*  
/opt/cola/permits/1135880033\_1613624256.69/0/spring-orm-5-2-7-release-sources-1-jar/org/springframework/orm/hibernate5/HibernateCallback.java  
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* /opt/cola/permits/1135880033_1613624256.69/0/spring-orm-5-2-7-release-sources-1-
jar/org/springframework/orm/jpa/EntityManagerProxy.java
* /opt/cola/permits/1135880033_1613624256.69/0/spring-orm-5-2-7-release-sources-1-
jar/org/springframework/orm/jpa/persistenceunit/PersistenceUnitPostProcessor.java
*
/opt/cola/permits/1135880033_1613624256.69/0/spring-orm-5-2-7-release-sources-1-
jar/org/springframework/orm/jpa/persistenceunit/PersistenceUnitManager.java
* /opt/cola/permits/1135880033_1613624256.69/0/spring-orm-5-2-7-release-sources-1-
jar/org/springframework/orm/jpa/JpaOptimisticLockingFailureException.java
* /opt/cola/permits/1135880033_1613624256.69/0/spring-orm-5-2-7-release-sources-1-
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\* /opt/cola/permits/1135880033\_1613624256.69/0/spring-orm-5-2-7-release-sources-1-jar/org/springframework/orm/jpa/support/PersistenceAnnotationBeanPostProcessor.java

# 1.638 spring-context-support 5.2.7.RELEASE

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\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/scheduling/quartz/QuartzJobBean.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/mail/MailSender.java  
\*

/opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/mail/javamail/InternetAddressEditor.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/ui/freemarker/FreeMarkerTemplateUtils.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/cache/ehcache/EhCacheManagerUtils.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/cache/jcache/interceptor/CacheRemoveAllOperation.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/mail/javamail/JavaMailSender.java

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```

Found in path(s):

```
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/cache/transaction/TransactionAwareCacheDecorator.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/cache/jcache/interceptor/CacheRemoveAllInterceptor.java
*
/opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/cache/jcache/interceptor/JCacheOperation.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/cache/jcache/interceptor/AbstractCacheInterceptor.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/scheduling/quartz/ResourceLoaderClassLoadHelper.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/scheduling/quartz/SchedulerAccessor.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/cache/jcache/interceptor/CacheRemoveEntryInterceptor.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/cache/jcache/interceptor/CacheRemoveOperation.java
*
/opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/scheduling/quartz/LocalDataSourceJobStore.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/cache/jcache/interceptor/AbstractJCacheOperation.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/scheduling/quartz/MethodInvokingJobDetailFactoryBean.java
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```

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Found in path(s):

- \* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/ui/freemarker/FreeMarkerConfigurationFactoryBean.java
  - \* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/scheduling/commonj/ScheduledTimerListener.java
  - \*
  - /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/mail/MailMessage.java
  - \* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/cache/transaction/TransactionAwareCacheManagerProxy.java
  - \* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/mail/MailException.java
  - \* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/mail/javamail/SmartMimeMessage.java
  - \* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/cache/ehcache/EhCacheManagerFactoryBean.java
  - \* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/scheduling/commonj/TimerManagerAccessor.java
  - \* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/scheduling/quartz/SchedulerAccessorBean.java
  - \*
  - /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/mail/javamail/MimeMailMessage.java
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#####

#####
#
# Defaults for the Java Activation Framework (revised).
#
# Modified extensions registered
# in this file:
# text/plain java c c++ cpp pl cc h
# image/png png
# image/svg+xml svg
#
#####

text/html html htm HTML HTM
text/plain txt text TXT TEXT java c c++ cpp pl cc h
image/gif gif GIF
image/ief ief
image/jpeg jpeg jpg jpe JPG
image/tiff tiff tif
image/x-xwindowdump xwd
application/postscript ai eps ps
application/rtf rtf
application/x-tex tex
application/x-texinfo texinfo texi
application/x-troff t tr roff
audio/basic au
audio/midi midi mid
audio/x-aifc aifc
audio/x-aiff aif aiff
audio/x-mpeg mpeg mpg mpe
audio/x-wav wav
video/mpeg mpeg mpg mpe
video/quicktime qt mov
video/x-msvideo avi

#####
#
# Additional file types adapted from
# http://sites.utoronto.ca/webdocs/HTMLdocs/Book/Book-3ed/appb/mimetype.html
# kindly re-licensed to Apache Software License 2.0 by
# Ian Graham.
#
#####

# TEXT TYPES

```

text/x-speech talk  
text/css css  
text/csv csv

## # IMAGE TYPES

# X-Windows bitmap (b/w)  
image/x-xbitmap xbm  
# X-Windows pixmap (8-bit color)  
image/x-xpixmap xpm  
# Portable Network Graphics  
image/png png  
# Scalable Vector Graphics  
image/svg+xml svg  
# Image Exchange Format (RFC 1314)  
image/ief ief  
# RGB  
image/rgb rgb  
# Group III Fax (RFC 1494)  
image/g3fax g3f  
# X Windowdump format  
image/x-windowdump xwd  
# Macintosh PICT format  
image/x-pict pict  
# PPM (UNIX PPM package)  
image/x-portable-pixmap ppm  
# PGM (UNIX PPM package)  
image/x-portable-graymap pgm  
# PBM (UNIX PPM package)  
image/x-portable-bitmap pbm  
# PNM (UNIX PPM package)  
image/x-portable-anymap pnm  
# Microsoft Windows bitmap  
image/x-ms-bmp bmp  
# CMU raster  
image/x-cmu-raster ras  
# Kodak Photo-CD  
image/x-photo-cd pcd  
# Computer Graphics Metafile  
image/cgm cgm  
# CALS Type 1  
or 2  
image/x-cals mil cal  
# Fractal Image Format (Iterated Systems)  
image/fif fif  
# QuickSilver active image (Micrografx)  
image/x-mgx-dsf dsf

# CMX vector image (Corel)  
image/x-cmx cmx  
# Wavelet-compressed (Summus)  
image/wavelet wi  
# AutoCad Drawing (SoftSource)  
image/vnd.dwg dwg  
# AutoCad DXF file (SoftSource)  
image/vnd.dxf dxf  
# Simple Vector Format (SoftSource)  
image/vnd.svf svf

#### # AUDIO/VOICE/MUSIC RELATED TYPES

# ""basic"" audio - 8-bit u-law PCM"  
audio/basic au snd  
# Macintosh audio format (AIpple)  
audio/x-aiff aif aiff aifc  
# Microsoft audio  
audio/x-wav wav  
# MPEG audio  
audio/x-mpeg mpa abs mpega  
# MPEG-2 audio  
audio/x-mpeg-2 mp2a mpa2  
# compressed speech (Echo Speech Corp.)  
audio/echospeech es  
# Toolvox speech audio (Voxware)  
audio/voxware vox  
# RapidTransit compressed audio (Fast Man)  
application/fastman lcc  
# Realaudio (Progressive Networks)  
application/x-pn-realaudio ra ram  
# MIDI music data  
x-music/x-midi mmid  
# Koan music  
data (SSeyo)  
application/vnd.koan skp  
# Speech synthesis data (MVP Solutions)  
text/x-speech talk

#### # VIDEO TYPES

# MPEG video  
video/mpeg mpeg mpg mpe  
# MPEG-2 video  
video/mpeg-2 mpv2 mp2v  
# Macintosh Quicktime  
video/quicktime qt mov  
# Microsoft video

```
video/x-msvideo avi
# SGI Movie format
video/x-sgi-movie movie
# VDOLive streaming video (VDOnet)
video/vdo vdo
# Vivo streaming video (Vivo software)
video/vnd.vivo viv

# SPECIAL HTTP/WEB APPLICATION TYPES

# Proxy autoconfiguration (Netscape browsers)
application/x-ns-proxy-autoconfig pac
# Netscape Cooltalk chat data (Netscape)
x-conference/x-cooltalk ice

# TEXT-RELATED

# PostScript
application/postscript ai eps ps
# Microsoft Rich Text Format
application/rtf rtf
# Adobe Acrobat PDF
application/pdf pdf
# Maker Interchange Format (FrameMaker)
application/vnd.mif mif
# Troff document
application/x-troff t tr roff
# Troff document with MAN macros
application/x-troff-man man
# Troff document with
ME macros
application/x-troff-me me
# Troff document with MS macros
application/x-troff-ms ms
# LaTeX document
application/x-latex latex
# Tex/LateX document
application/x-tex tex
# GNU TexInfo document
application/x-texinfo texinfo texi
# TeX dvi format
application/x-dvi dvi
# MS word document
application/msword doc DOC
# Office Document Architecture
application/oda oda
# Envoy Document
application/envoy evy
```

## # ARCHIVE/COMPRESSED ARCHIVES

# Gnu tar format  
application/x-gtar gtar  
# 4.3BSD tar format  
application/x-tar tar  
# POSIX tar format  
application/x-ustar ustar  
# Old CPIO format  
application/x-bcpio bcpio  
# POSIX CPIO format  
application/x-cpio cpio  
# UNIX sh shell archive  
application/x-shar shar  
# DOS/PC - Pkzipped archive  
application/zip zip  
# Macintosh Binhexed archive  
application/mac-binhex40 hqx  
# Macintosh Stuffit Archive  
application/x-stuffit sit sea  
# Fractal Image Format  
application/fractals fif  
# "Binary UUencoded"  
application/octet-stream bin  
uu  
# PC executable  
application/octet-stream exe  
# "WAIS ""sources"""  
application/x-wais-source src wsrc  
# NCSA HDF data format  
application/hdf hdf

## # DOWNLOADABLE PROGRAM/SCRIPTS

# Javascript program  
text/javascript js ls mocha  
# UNIX bourne shell program  
application/x-sh sh  
# UNIX c-shell program  
application/x-csh csh  
# Perl program  
application/x-perl pl  
# Tcl (Tool Control Language) program  
application/x-tcl tcl

## # ANIMATION/MULTIMEDIA

```
# FutureSplash vector animation (FutureWave)
application/futuresplash spl
# mBED multimedia data (mBED)
application/mbedlet mbd
# PowerMedia multimedia (RadMedia)
application/x-rad-powermedia rad

# PRESENTATION

# PowerPoint presentation (Microsoft)
application/mspowerpoint ppz
# ASAP WordPower (Software Publishing Corp.)
application/x-asap asp
# Astound Web Player multimedia data (GoldDisk)
application/astound asn

# SPECIAL EMBEDDED OBJECT

# OLE script e.g. Visual Basic (Ncompass)
application/x-olescript axs
#
# OLE Object (Microsoft/NCompass)
application/x-oleobject ods
# OpenScape OLE/OCX objects (Business@Web)
x-form/x-openscape opp
# Visual Basic objects (Amara)
application/x-webbasic wba
# Specialized data entry forms (Alpha Software)
application/x-alpha-form frm
# client-server objects (Wayfarer Communications)
x-script/x-wfxclient wfx

# GENERAL APPLICATIONS

# Undefined binary data (often executable progs)
application/octet-stream exe com
# Pointcast news data (Pointcast)
application/x-pcn pcn
# Excel spreadsheet (Microsoft)
application/vnd.ms-excel xls
# PowerPoint (Microsoft)
application/vnd.ms-powerpoint ppt
# Microsoft Project (Microsoft)
application/vnd.ms-project mpp
# SourceView document (Dataware Electronics)
application/vnd.svd svd
# Net Install - software install (20/20 Software)
application/x-net-install ins
```



# Carbon Copy - remote control/access (Microcom)  
application/ccv ccv  
# Spreadsheets (Visual Components)  
workbook/formulaone vts

## # 2D/3D DATA/VIRTUAL REALITY TYPES

# VRML data file  
x-world/x-vrml wrl vrml  
# WIRL - VRML data (VREAM)  
x-world/x-vream vrw  
# Play3D 3d scene data (Play3D)  
application/x-p3d p3d  
# Viscape Interactive 3d world data (Superscape)  
x-world/x-svr svr  
# WebActive 3d data (Plastic Thought)  
x-world/x-wvr wvr  
# QuickDraw3D scene data (Apple)  
x-world/x-3dmf 3dmf

## # SCIENTIFIC/MATH/CAD TYPES

# Mathematica notebook  
application/mathematica ma  
# Computational meshes for numerical simulations  
x-model/x-mesh msh  
# Vis5D 5-dimensional data  
application/vis5d v5d  
# IGES models -- CAD/CAM (CGM) data  
application/iges igs  
# Autocad WHIP vector drawings  
drawing/x-dwf dwf

Found in path(s):

\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/mail/javamail/mime.types

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- \* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/cache/jcache/config/JCacheConfigurerSupport.java
- \* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/mail/javamail/MimeMessageHelper.java
- \*
- /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/cache/jcache/interceptor/CacheResultOperation.java
- \* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/cache/jcache/interceptor/CachePutOperation.java
- \* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/scheduling/quartz/JobDetailFactoryBean.java
- \* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/scheduling/commonj/TimerManagerTaskScheduler.java
- \* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/scheduling/quartz/AdaptableJobFactory.java
- \* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/mail/javamail/ConfigurableMimeFileTypeMap.java
- \*
- /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/scheduling/quartz/SimpleThreadPoolTaskExecutor.java
- \* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/scheduling/quartz/SpringBeanJobFactory.java
- \* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/cache/jcache/config/ProxyJCacheConfiguration.java
- \* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/cache/jcache/interceptor/DefaultCacheKeyInvocationContext.java
- \* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/cache/jcache/interceptor/JCacheInterceptor.java
- \* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/mail/MailSendException.java
- \*
- /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/cache/jcache/interceptor/AbstractJCacheKeyOperation.java
- \* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/cache/jcache/interceptor/JCacheOperationSourcePointcut.java
- \* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/cache/jcache/interceptor/CacheResultInterceptor.java
- \* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-jar/org/springframework/cache/jcache/interceptor/DefaultJCacheOperationSource.java
- \* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-

jar/org/springframework/cache/jcache/interceptor/KeyGeneratorAdapter.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/ui/freemarker/FreeMarkerConfigurationFactory.java  
\*  
/opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/mail/SimpleMailMessage.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/cache/jcache/config/AbstractJCacheConfiguration.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/cache/jcache/interceptor/AbstractFallbackJCacheOperationSource.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/cache/jcache/interceptor/AbstractKeyCacheInterceptor.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/cache/jcache/interceptor/DefaultCacheMethodDetails.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/cache/jcache/interceptor/AnnotationJCacheOperationSource.java  
\*  
/opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/cache/jcache/JCacheManagerFactoryBean.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/scheduling/quartz/CronTriggerFactoryBean.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/cache/jcache/interceptor/JCacheOperationSource.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/scheduling/quartz/SimpleTriggerFactoryBean.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/cache/jcache/config/JCacheConfigurer.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/scheduling/quartz/LocalTaskExecutorThreadPool.java  
\*  
/opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/cache/jcache/interceptor/JCacheAspectSupport.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/cache/jcache/interceptor/CacheResolverAdapter.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/cache/jcache/interceptor/BeanFactoryJCacheOperationSourceAdvisor.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/cache/jcache/interceptor/SimpleExceptionCacheResolver.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/ui/freemarker/SpringTemplateLoader.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/scheduling/commonj/WorkManagerTaskExecutor.java  
\*  
/opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/scheduling/quartz/SchedulerFactoryBean.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/scheduling/commonj/TimerManagerFactoryBean.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-

jar/org/springframework/cache/ehcache/EhCacheFactoryBean.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/cache/jcache/interceptor/DefaultCacheInvocationContext.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/cache/jcache/interceptor/CachePutInterceptor.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/mail/javamail/JavaMailSenderImpl.java  
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jar/org/springframework/scheduling/quartz/SchedulerContextAware.java  
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jar/org/springframework/cache/jcache/JCacheCache.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/cache/caffeine/CaffeineCache.java  
\*  
/opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/cache/caffeine/CaffeineCacheManager.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/cache/ehcache/EhCacheCacheManager.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/cache/ehcache/EhCacheCache.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/cache/jcache/JCacheCacheManager.java  
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jar/org/springframework/cache/transaction/AbstractTransactionSupportingCacheManager.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/scheduling/commonj/DelegatingTimerListener.java  
\*  
/opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/scheduling/quartz/JobMethodInvocationFailedException.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/mail/MailAuthenticationException.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/scheduling/commonj/DelegatingWork.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/mail/MailParseException.java  
\* /opt/cola/permits/1135880196\_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-  
jar/org/springframework/scheduling/quartz/DelegatingJob.java  
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jar/org/springframework/mail/MailPreparationException.java
* /opt/cola/permits/1135880196_1613624430.75/0/spring-context-support-5-2-7-release-sources-1-
jar/org/springframework/mail/javamail/MimeMessagePreparator.java
```

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* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-
jar/org/springframework/aop/aspectj/annotation/ReflectiveAspectJAdvisorFactory.java
* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-
jar/org/springframework/aop/framework/adaptor/MethodBeforeAdviceInterceptor.java
*
/opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-
jar/org/springframework/aop/framework/AopContext.java
* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-
jar/org/springframework/aop/interceptor/CustomizableTraceInterceptor.java
* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-
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* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-
jar/org/springframework/aop/config/AopNamespaceHandler.java
* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-
jar/org/springframework/aop/framework/ProxyFactoryBean.java
* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-
jar/org/springframework/aop/framework/autoproxy/AbstractAdvisorAutoProxyCreator.java
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jar/org/springframework/aop/interceptor/ExposeInvocationInterceptor.java
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/opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/aspectj/autoproxy/AspectJAwareAdvisorAutoProxyCreator.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/aspectj/autoproxy/AspectJPrecedenceComparator.java  
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\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/interceptor/DebugInterceptor.java

\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/config/AdviceEntry.java

\*

/opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/scope/ScopedObject.java

\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/framework/AopProxy.java

\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/DynamicIntroductionAdvice.java

\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/aspectj/AspectJAopUtils.java

\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/framework/adapter/UnknownAdviceTypeException.java

\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/IntroductionInfo.java

\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/AfterReturningAdvice.java

\*

/opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/AopInvocationException.java

\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-

jar/org/springframework/aop/interceptor/ConcurrencyThrottleInterceptor.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-  
jar/org/springframework/aop/framework/adaptor/AfterReturningAdviceAdapter.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-  
jar/org/springframework/aop/Pointcut.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-  
jar/org/springframework/aop/support/StaticMethodMatcherPointcut.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-  
jar/org/springframework/aop/PointcutAdvisor.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-  
jar/org/springframework/aop/target/dynamic/BeanFactoryRefreshableTargetSource.java  
\*  
/opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-  
jar/org/springframework/aop/target/LazyInitTargetSource.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-  
jar/org/springframework/aop/config/PointcutComponentDefinition.java  
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jar/org/springframework/aop/config/SpringConfiguredBeanDefinitionParser.java  
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\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-  
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jar/org/springframework/aop/BeforeAdvice.java

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  - \* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/config/AspectJAutoProxyBeanDefinitionParser.java
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\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/TargetSource.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/target/AbstractLazyCreationTargetSource.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/framework/autoproxy/AbstractBeanFactoryAwareAdvisingPostProcessor.java  
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/opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectJAdvisorsBuilder.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/target/EmptyTargetSource.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/aspectj/AspectJAdviceParameterNameDiscoverer.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/aspectj/annotation/InstantiationModelAwarePointcutAdvisorImpl.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/aspectj/annotation/AspectJProxyFactory.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/IntroductionAwareMethodMatcher.java  
\*  
/opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/config/AopConfigUtils.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/aspectj/SimpleAspectInstanceFactory.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/config/AopNamespaceUtils.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/MethodBeforeAdvice.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/framework/autoproxy/target/QuickTargetSourceCreator.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/config/ConfigBeanDefinitionParser.java  
\*  
/opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/aspectj/annotation/NotAnAtAspectException.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/interceptor/SimpleAsyncUncaughtExceptionHandler.java

\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/aopalliance/intercept/ConstructorInvocation.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/target/dynamic/AbstractRefreshableTargetSource.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/framework/adapter/GlobalAdvisorAdapterRegistry.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/framework/DefaultAdvisorChainFactory.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/framework/ProxyConfig.java  
\*  
/opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectInstanceFactory.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/framework/autoproxy/AutoProxyUtils.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/aopalliance/aop/AspectException.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/framework/ProxyProcessorSupport.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/aspectj/RuntimeTestWalker.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/target/HotSwappableTargetSource.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/interceptor/AsyncExecutionInterceptor.java  
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/opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/target/CommonsPool2TargetSource.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/target/SingletonTargetSource.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/support/AbstractRegexpMethodPointcut.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/TrueClassFilter.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/framework/AdvisorChainFactory.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/framework/Advised.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/framework/autoproxy/DefaultAdvisorAutoProxyCreator.java  
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/opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/aspectj/annotation/AbstractAspectJAdvisorFactory.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/target/AbstractPrototypeBasedTargetSource.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-jar/org/springframework/aop/support/annotation/AnnotationClassFilter.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-



jar/org/springframework/aop/support/StaticMethodMatcher.java  
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jar/org/springframework/aop/framework/adaptor/AdvisorAdapterRegistry.java  
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jar/org/springframework/aop/aspectj/DeclareParentsAdvisor.java  
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jar/org/springframework/aop/framework/adaptor/AfterReturningAdviceInterceptor.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-  
jar/org/springframework/aop/interceptor/AsyncExecutionAspectSupport.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-  
jar/org/aopalliance/intercept/MethodInterceptor.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-  
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jar/org/springframework/aop/framework/autoproxy/BeanFactoryAdvisorRetrievalHelper.java  
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jar/org/springframework/aop/support/RegexpMethodPointcutAdvisor.java  
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/opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-  
jar/org/springframework/aop/TrueMethodMatcher.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-  
jar/org/springframework/aop/config/AdvisorComponentDefinition.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-  
jar/org/springframework/aop/framework/AbstractAdvisingBeanPostProcessor.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-  
jar/org/springframework/aop/target/AbstractBeanFactoryBasedTargetSource.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-  
jar/org/springframework/aop/framework/ProxyCreatorSupport.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-  
jar/org/springframework/aop/support/DynamicMethodMatcher.java  
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jar/org/springframework/aop/aspectj/AspectJPointcutAdvisor.java  
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\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-  
jar/org/springframework/aop/aspectj/AspectJPrecedenceInformation.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-  
jar/org/springframework/aop/support/StaticMethodMatcherPointcutAdvisor.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-  
jar/org/springframework/aop/framework/autoproxy/ProxyCreationContext.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-  
jar/org/springframework/aop/scope/ScopedProxyFactoryBean.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-  
jar/org/springframework/aop/framework/adaptor/ThrowsAdviceInterceptor.java

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*
/opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-
jar/org/springframework/aop/TruePointcut.java
* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-
jar/org/springframework/aop/framework/AbstractSingletonProxyFactoryBean.java
* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-
jar/org/springframework/aop/interceptor/ExposeBeanNameAdvisors.java
* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-
jar/org/springframework/aop/aspectj/MethodInvocationProceedingJoinPoint.java
* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-
jar/org/springframework/aop/framework/autoproxy/target/AbstractBeanFactoryBasedTargetSourceCreator.java
* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-
jar/org/springframework/aop/target/AbstractPoolingTargetSource.java
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```
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Found in path(s):

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* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-
jar/org/springframework/aop/aspectj/SingletonAspectInstanceFactory.java
* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-
jar/org/springframework/aop/aspectj/AspectJAfterAdvice.java
*
/opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-
jar/org/springframework/aop/aspectj/annotation/PrototypeAspectInstanceFactory.java
* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-
jar/org/springframework/aop/framework/DefaultAopProxyFactory.java
* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-
jar/org/springframework/aop/aspectj/AspectJAfterThrowingAdvice.java
* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-
jar/org/springframework/aop/ProxyMethodInvocation.java
* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-
jar/org/springframework/aop/aspectj/annotation/AspectJAdvisorFactory.java
* /opt/cola/permits/1135880320_1613624061.18/0/spring-aop-5-2-7-release-sources-1-
```

jar/org/springframework/aop/TargetClassAware.java  
\* /opt/cola/permits/1135880320\_1613624061.18/0/spring-aop-5-2-7-release-sources-1-  
jar/org/springframework/aop/aspectj/AspectJMethodBeforeAdvice.java

## 1.641 spring-cloud-starter 2.2.3.RELEASE

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\* /opt/ws\_local/PERMITS\_SQL/1073035050\_1597999451.86/0/spring-cloud-starter-2-2-3-release-jar/META-INF/maven/org.springframework.cloud/spring-cloud-starter/pom.xml

## 1.642 spring-jcl 5.2.7.RELEASE

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\* /opt/cola/permits/1135880368\_1613624434.86/0/spring-jcl-5-2-7-release-sources-1-jar/org/apache/commons/logging/impl/SimpleLog.java

\* /opt/cola/permits/1135880368\_1613624434.86/0/spring-jcl-5-2-7-release-sources-1-jar/org/apache/commons/logging/LogFactoryService.java

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jar/org/apache/commons/logging/LogFactory.java

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jar/org/apache/commons/logging/LogAdapter.java

# 1.643 spring-web 5.2.7.RELEASE

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- \* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/filter/RelativeRedirectFilter.java
- \* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/remoting/jaxws/AbstractJaxWsServiceExporter.java
- \*
- /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/context/request/WebRequest.java
- \* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/converter/json/AbstractJsonHttpMessageConverter.java
- \* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/server/i18n/FixedLocaleContextResolver.java
- \* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/bind/annotation/RequestPart.java
- \* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/accept/AbstractMappingContentNegotiationStrategy.java
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- \* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/multipart/commons/CommonsMultipartResolver.java
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- \* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/bind/annotation/RequestParam.java
- \* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/server/DefaultServerWebExchangeBuilder.java
- \* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/util/pattern/SeparatorPathElement.java
- \* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/context/ContextLoader.java
- \* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/context/request/async/StandardServletAsyncWebRequest.java
- \* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/SpringServletContainerInitializer.java
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\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/client/reactive/JettyClientHttpRequest.java  
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/opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/converter/json/MappingJackson2HttpMessageConverter.java  
\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/client/Netty4ClientHttpRequestFactory.java

\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/server/handler/FilteringWebHandler.java  
\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/codec/HttpMessageEncoder.java  
\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/method/annotation/SessionAttributesHandler.java  
\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/method/annotation/AbstractCookieValueMethodArgumentResolver.java  
\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/server/reactive/UndertowHttpHandlerAdapter.java  
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\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/HttpOutputMessage.java  
\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/client/SimpleStreamingAsyncClientHttpRequest.java  
\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/bind/support/ConfigurableWebBindingInitializer.java  
\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/multipart/MultipartFile.java  
\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/client/Netty4ClientHttpRequest.java  
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/opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/converter/HttpMessageConverter.java  
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\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/converter/xml/Jaxb2CollectionHttpMessageConverter.java  
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jar/org/springframework/web/bind/annotation/RequestBody.java  
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/opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/converter/xml/MarshallingHttpMessageConverter.java  
\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/method/annotation/AbstractNamedValueMethodArgumentResolver.java  
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\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/HttpMessage.java  
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/opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/bind/support/SpringWebConstraintValidatorFactory.java  
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* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-
jar/org/springframework/http/converter/HttpMessageConversionException.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-
jar/org/springframework/web/context/request/RequestContextListener.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-
jar/org/springframework/web/filter/CommonsRequestLoggingFilter.java
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jar/org/springframework/web/util/HttpSessionMutexListener.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-
jar/org/springframework/web/context/request/DestructionCallbackBindingListener.java
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jar/org/springframework/web/multipart/MultipartResolver.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-
jar/org/springframework/http/converter/HttpMessageNotWritableException.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-
jar/org/springframework/web/bind/annotation/SessionAttributes.java
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jar/org/springframework/web/context/ConfigurableWebApplicationContext.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-
jar/org/springframework/web/method/support/HandlerMethodArgumentResolver.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-
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```

```
/**
```

```
* Return the web session for the current request. Always guaranteed to
```

\* return an instance either matching to the session id requested by the  
\* client, or with a new session id either because the client did not  
\* specify one or because the underlying session had expired. Use of this  
\* method  
does not automatically create a session. See { @link WebSession }  
\* for more details.  
\*/

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/opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/remoting/caucho/HessianProxyFactoryBean.java  
\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/client/AsyncRequestCallback.java  
\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/server/ServletServerHttpAsyncRequestControl.java  
\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/context/request/AbstractRequestAttributesScope.java  
\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/client/support/ProxyFactoryBean.java  
\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/client/HttpComponentsAsyncClientHttpRequest.java  
\*  
/opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/bind/support/WebExchangeDataBinder.java  
\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/context/request/async/CallableProcessingInterceptorAdapter.java  
\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/client/AsyncClientHttpRequestInterceptor.java  
\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/bind/support/DefaultDataBinderFactory.java  
\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/converter/feed/RssChannelHttpMessageConverter.java  
\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/client/AsyncClientHttpRequestFactory.java  
\*  
/opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/client/support/InterceptingAsyncHttpAccessor.java  
\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/context/support/ServletContextParameterFactoryBean.java  
\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/context/request/async/DeferredResultProcessingInterceptor.java  
\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-

```
jar/org/springframework/web/jsf/el/SpringBeanFacesELResolver.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-
jar/org/springframework/web/context/request/async/DeferredResultProcessingInterceptorAdapter.java
No license file was found, but licenses were detected in source scan.
```

```
# This file maps Internet media types to unique file extension(s).
# Although created for httpd, this file is used by many software systems
# and has been placed in the public domain for unlimited redistribution.
#
# The table below contains both registered and (common) unregistered types.
# A type that has no unique extension can be ignored -- they are listed
# here to guide configurations toward known types and to make it easier to
# identify "new" types. File extensions are also commonly used to indicate
# content languages and encodings, so choose them carefully.
#
# Internet media types should be registered as described in RFC 4288.
# The registry is at <https://www.iana.org/assignments/media-types/>.
#
# This file was retrieved from
https://svn.apache.org/viewvc/httpd/httpd/trunk/docs/conf/mime.types?revision=1752884&view=co
#
# MIME type (lowercased) Extensions
# =====
#
application/1d-interleaved-parityfec
# application/3gpdash-qoe-report+xml
# application/3gpp-ims+xml
# application/a2l
# application/activemessage
# application/alto-costmap+json
# application/alto-costmapfilter+json
# application/alto-directory+json
# application/alto-endpointcost+json
# application/alto-endpointcostparams+json
# application/alto-endpointprop+json
# application/alto-endpointpropparams+json
# application/alto-error+json
# application/alto-networkmap+json
# application/alto-networkmapfilter+json
# application/aml
application/andrew-inset ez
# application/applefile
application/applixware aw
# application/atf
# application/atfx
application/atom+xml atom
application/atomcat+xml atomcat
# application/atomdeleted+xml
```

# application/atomicmail  
application/atomsvc+xml atomsvc  
# application/atxml  
# application/auth-policy+xml  
# application/bacnet-xdd+zip  
# application/batch-smtp  
# application/beep+xml  
# application/calendar+json  
# application/calendar+xml  
#  
application/call-completion  
# application/cals-1840  
# application/cbor  
# application/ccmp+xml  
application/ccxml+xml ccxml  
# application/cdfx+xml  
application/cdmi-capability cdmia  
application/cdmi-container cdmic  
application/cdmi-domain cdmid  
application/cdmi-object cdmio  
application/cdmi-queue cdmiq  
# application/cdni  
# application/cea  
# application/cea-2018+xml  
# application/cellml+xml  
# application/cfw  
# application/cms  
# application/cnrp+xml  
# application/coap-group+json  
# application/commonground  
# application/conference-info+xml  
# application/cpl+xml  
# application/csrattrs  
# application/csta+xml  
# application/cstadata+xml  
# application/csvm+json  
application/cu-seeme cu  
# application/cybercash  
# application/dash+xml  
# application/dashdelta  
application/davmount+xml davmount  
# application/dca-rft  
# application/dcd  
# application/dec-dx  
# application/dialog-info+xml  
# application/dicom  
# application/dii  
# application/dit

# application/dns  
application/docbook+xml dbk  
#  
application/dskpp+xml  
application/dssc+der dssc  
application/dssc+xml xdssc  
# application/dvcs  
application/ecmascript ecma  
# application/edi-consent  
# application/edi-x12  
# application/edifact  
# application/efi  
# application/emergencycalldata.comment+xml  
# application/emergencycalldata.deviceinfo+xml  
# application/emergencycalldata.providerinfo+xml  
# application/emergencycalldata.serviceinfo+xml  
# application/emergencycalldata.subscriberinfo+xml  
application/emma+xml emma  
# application/emotionml+xml  
# application/encaprtsp  
# application/epp+xml  
application/epub+zip epub  
# application/eshop  
# application/example  
application/exi exi  
# application/fastinfoset  
# application/fastsoap  
# application/fdt+xml  
# application/fits  
# application/font-sfnt  
application/font-tdpfr pfr  
application/font-woff woff  
# application/framework-attributes+xml  
# application/geo+json  
application/gml+xml gml  
application/gpx+xml gpx  
application/gxf gxf  
# application/gzip  
#  
application/h224  
# application/held+xml  
# application/http  
application/hyperstudio stk  
# application/ibe-key-request+xml  
# application/ibe-pkg-reply+xml  
# application/ibe-pp-data  
# application/iges  
# application/im-iscomposing+xml

# application/index  
# application/index.cmd  
# application/index.obj  
# application/index.response  
# application/index.vnd  
application/inkml+xml ink inkml  
# application/iotp  
application/ipfix ipfix  
# application/ipp  
# application/isup  
# application/its+xml  
application/java-archive jar  
application/java-serialized-object ser  
application/java-vm class  
application/javascript js  
# application/jose  
# application/jose+json  
# application/jrd+json  
application/json json  
# application/json-patch+json  
# application/json-seq  
application/jsonml+json jsonml  
# application/jwk+json  
# application/jwk-set+json  
# application/jwt  
# application/kpml-request+xml  
# application/kpml-response+xml  
# application/ld+json  
# application/lgr+xml  
# application/link-format  
#  
application/load-control+xml  
application/lost+xml lostxml  
# application/lostsync+xml  
# application/lxf  
application/mac-binhex40 hqx  
application/mac-compactpro cpt  
# application/macwriteii  
application/mads+xml mads  
application/marc mrc  
application/marcxml+xml mrcx  
application/mathematica ma nb mb  
application/mathml+xml mathml  
# application/mathml-content+xml  
# application/mathml-presentation+xml  
# application/mbms-associated-procedure-description+xml  
# application/mbms-deregister+xml  
# application/mbms-envelope+xml

```
# application/mbms-msk+xml
# application/mbms-msk-response+xml
# application/mbms-protection-description+xml
# application/mbms-reception-report+xml
# application/mbms-register+xml
# application/mbms-register-response+xml
# application/mbms-schedule+xml
# application/mbms-user-service-description+xml
application/mbox mbox
# application/media-policy-dataset+xml
# application/media_control+xml
application/mediaservercontrol+xml mscml
# application/merge-patch+json
application/metalink+xml metalink
application/metalink4+xml meta4
application/mets+xml mets
#
application/mf4
# application/mikey
application/mods+xml mods
# application/moss-keys
# application/moss-signature
# application/mosskey-data
# application/mosskey-request
application/mp21 m21 mp21
application/mp4 mp4s
# application/mpeg4-generic
# application/mpeg4-iod
# application/mpeg4-iod-xmt
# application/mrb-consumer+xml
# application/mrb-publish+xml
# application/msc-ivr+xml
# application/msc-mixer+xml
application/msword doc dot
application/mxf mxf
# application/nasdata
# application/news-checkgroups
# application/news-groupinfo
# application/news-transmission
# application/nlsm1+xml
# application/nss
# application/ocsp-request
# application/ocsp-response
application/octet-stream bin dms lrf mar so dist distz pkg bpk dump elc deploy
application/oda oda
# application/odx
application/oebps-package+xml opf
application/ogg ogx
```

application/omdoc+xml omdoc  
application/onenote onetoc  
onetoc2 onetmp onepkg  
application/oxps oxps  
# application/p2p-overlay+xml  
# application/parityfec  
application/patch-ops-error+xml xer  
application/pdf pdf  
# application/pdx  
application/pgp-encrypted pgp  
# application/pgp-keys  
application/pgp-signature asc sig  
application/pics-rules prf  
# application/pidf+xml  
# application/pidf-diff+xml  
application/pkcs10 p10  
# application/pkcs12  
application/pkcs7-mime p7m p7c  
application/pkcs7-signature p7s  
application/pkcs8 p8  
application/pkix-attr-cert ac  
application/pkix-cert cer  
application/pkix-crl crl  
application/pkix-pkipath pkipath  
application/pkixcmp pki  
application/pls+xml pls  
# application/poc-settings+xml  
application/postscript ai eps ps  
# application/ppsp-tracker+json  
# application/problem+json  
# application/problem+xml  
# application/provenance+xml  
# application/prs.alvestrand.titrax-sheet  
application/prs.cww cww  
# application/prs.hpub+zip  
#  
application/prs.nprend  
# application/prs.plucker  
# application/prs.rdf-xml-crypt  
# application/prs.xsf+xml  
application/pskc+xml pskcxml  
# application/qsig  
# application/raptorfec  
# application/rdap+json  
application/rdf+xml rdf  
application/reginfo+xml rif  
application/relax-ng-compact-syntax rnc  
# application/remote-printing

# application/reputon+json  
application/resource-lists+xml rl  
application/resource-lists-diff+xml rld  
# application/rfc+xml  
# application/riscos  
# application/rlmi+xml  
application/rls-services+xml rs  
application/rpki-ghostbusters gbr  
application/rpki-manifest mft  
application/rpki-roa roa  
# application/rpki-updown  
application/rsd+xml rsd  
application/rss+xml rss  
application/rtf rtf  
# application/rtploopback  
# application/rtx  
# application/samlassertion+xml  
# application/samlmetadata+xml  
application/sbml+xml sbml  
# application/scaip+xml  
# application/scim+json  
application/scvp-cv-request scq  
application/scvp-cv-response scs  
application/scvp-vp-request spq  
application/scvp-vp-response spp  
application/sdp sdp  
#  
application/sep+xml  
# application/sep-exi  
# application/session-info  
# application/set-payment  
application/set-payment-initiation setpay  
# application/set-registration  
application/set-registration-initiation setreg  
# application/sgml  
# application/sgml-open-catalog  
application/shf+xml shf  
# application/sieve  
# application/simple-filter+xml  
# application/simple-message-summary  
# application/simplesymbolcontainer  
# application/slate  
# application/smil  
application/smil+xml smi smil  
# application/smpite336m  
# application/soap+fastinfoset  
# application/soap+xml  
application/sparql-query rq



application/sparql-results+xml srx  
# application/spirits-event+xml  
# application/sql  
application/srgs gram  
application/srgs+xml grxml  
application/sru+xml sru  
application/ssdl+xml ssdl  
application/ssml+xml ssml  
# application/tamp-apex-update  
# application/tamp-apex-update-confirm  
# application/tamp-community-update  
#  
application/tamp-community-update-confirm  
# application/tamp-error  
# application/tamp-sequence-adjust  
# application/tamp-sequence-adjust-confirm  
# application/tamp-status-query  
# application/tamp-status-response  
# application/tamp-update  
# application/tamp-update-confirm  
application/tei+xml tei teicorpus  
application/thraud+xml tfi  
# application/timestamp-query  
# application/timestamp-reply  
application/timestamped-data tsd  
# application/ttml+xml  
# application/tve-trigger  
# application/ulpfec  
# application/urc-grpsheet+xml  
# application/urc-ressheet+xml  
# application/urc-targetdesc+xml  
# application/urc-uisocketdesc+xml  
# application/vcard+json  
# application/vcard+xml  
# application/vemmi  
# application/vividence.scriptfile  
# application/vnd.3gpp-prose+xml  
# application/vnd.3gpp-prose-pc3ch+xml  
# application/vnd.3gpp.access-transfer-events+xml  
# application/vnd.3gpp.bsf+xml  
# application/vnd.3gpp.mid-call+xml  
application/vnd.3gpp.pic-bw-large plb  
application/vnd.3gpp.pic-bw-small psb  
application/vnd.3gpp.pic-bw-var pvb  
#  
application/vnd.3gpp.sms  
# application/vnd.3gpp.sms+xml  
# application/vnd.3gpp.srvcc-ext+xml

# application/vnd.3gpp.srvcc-info+xml  
# application/vnd.3gpp.state-and-event-info+xml  
# application/vnd.3gpp.ussd+xml  
# application/vnd.3gpp2.bcmsginfo+xml  
# application/vnd.3gpp2.sms  
application/vnd.3gpp2.tcap tcap  
# application/vnd.3lightssoftware.imagescal  
application/vnd.3m.post-it-notes pwn  
application/vnd.accpac.simply.aso aso  
application/vnd.accpac.simply.imp imp  
application/vnd.acucobol acu  
application/vnd.acucorp atc acutc  
application/vnd.adobe.air-application-installer-package+zip air  
# application/vnd.adobe.flash.movie  
application/vnd.adobe.formscentral.fcdt fcdt  
application/vnd.adobe.fxp fxp fxpl  
# application/vnd.adobe.partial-upload  
application/vnd.adobe.xdp+xml xdp  
application/vnd.adobe.xfdf xfdf  
# application/vnd.aether.imp  
# application/vnd.ah-barcode  
application/vnd.ahead.space ahead  
application/vnd.airzip.filesecure.azf azf  
application/vnd.airzip.filesecure.azs azs  
application/vnd.amazon.ebook azw  
#  
application/vnd.amazon.mobi8-ebook  
application/vnd.americandynamics.acc acc  
application/vnd.amiga.ami ami  
# application/vnd.amundsen.maze+xml  
application/vnd.android.package-archive apk  
# application/vnd.anki  
application/vnd.anser-web-certificate-issue-initiation cii  
application/vnd.anser-web-funds-transfer-initiation fti  
application/vnd.antix.game-component atx  
# application/vnd.apache.thrift.binary  
# application/vnd.apache.thrift.compact  
# application/vnd.apache.thrift.json  
# application/vnd.api+json  
application/vnd.apple.installer+xml mpkg  
application/vnd.apple.mpegurl m3u8  
# application/vnd.arastra.swi  
application/vnd.aristanetworks.swi swi  
# application/vnd.artsquare  
application/vnd.astraea-software.iota iota  
application/vnd.audiograph aep  
# application/vnd.autopackage  
# application/vnd.avistar+xml

```
# application/vnd.balsamiq.bmml+xml
# application/vnd.balsamiq.bmpr
#
  application/vnd.bekitzur-stech+json
# application/vnd.biopax.rdf+xml
application/vnd.blueice.multipass mpm
# application/vnd.bluetooth.ep.oob
# application/vnd.bluetooth.le.oob
application/vnd.bmi bmi
application/vnd.businessobjects rep
# application/vnd.cab-jscript
# application/vnd.canon-cpdl
# application/vnd.canon-lips
# application/vnd.cendio.thinlinc.clientconf
# application/vnd.century-systems.tcp_stream
application/vnd.chemdraw+xml cdxml
# application/vnd.chess-pgn
application/vnd.chipnuts.karaoke-mmd mmd
application/vnd.cinderella cdy
# application/vnd.cirpack.isdn-ext
# application/vnd.citationstyles.style+xml
application/vnd.claymore cla
application/vnd.cloanto.rp9 rp9
application/vnd.clonk.c4group c4g c4d c4f c4p c4u
application/vnd.cluetrust.cartomobile-config c11amc
application/vnd.cluetrust.cartomobile-config-pkg c11amz
# application/vnd.coffeescript
# application/vnd.collection+json
# application/vnd.collection.doc+json
# application/vnd.collection.next+json
#
  application/vnd.comicbook+zip
# application/vnd.commerce-battelle
application/vnd.commonspace csp
application/vnd.contact.cmsg cdbcmsg
# application/vnd.coreos.ignition+json
application/vnd.cosmocaller cmc
application/vnd.crick.clicker clkx
application/vnd.crick.clicker.keyboard clkk
application/vnd.crick.clicker.palette clkp
application/vnd.crick.clicker.template clkt
application/vnd.crick.clicker.wordbank clkw
application/vnd.criticaltools.wbs+xml wbs
application/vnd.ctc-posml pml
# application/vnd.ctct.ws+xml
# application/vnd.cups-pdf
# application/vnd.cups-postscript
application/vnd.cups-ppd ppd
```

```
# application/vnd.cups-raster
# application/vnd.cups-raw
# application/vnd.curl
application/vnd.curl.car car
application/vnd.curl.pcurl pcurl
# application/vnd.cyan.dean.root+xml
# application/vnd.cybank
application/vnd.dart dart
application/vnd.data-vision.rdz rdz
# application/vnd.debian.binary-package
application/vnd.dece.data uvf uvvf
uvd uvvd
application/vnd.dece.ttml+xml uvt uvvt
application/vnd.dece.unsigned uvx uvvx
application/vnd.dece.zip uvz uvvz
application/vnd.denovo.fcselayout-link fe_launch
# application/vnd.desmume.movie
# application/vnd.dir-bi.plate-dl-nosuffix
# application/vnd.dm.delegation+xml
application/vnd.dna dna
# application/vnd.document+json
application/vnd.dolby.mlp mlp
# application/vnd.dolby.mobile.1
# application/vnd.dolby.mobile.2
# application/vnd.doremir.scorecloud-binary-document
application/vnd.dpgraph dpg
application/vnd.dreamfactory dfac
# application/vnd.drive+json
application/vnd.ds-keypoint kpxx
# application/vnd.dtg.local
# application/vnd.dtg.local.flash
# application/vnd.dtg.local.html
application/vnd.dvb.ait ait
# application/vnd.dvb.dvbj
# application/vnd.dvb.esgcontainer
# application/vnd.dvb.ipdcdftnotifaccess
# application/vnd.dvb.ipdcesgaccess
# application/vnd.dvb.ipdcesgaccess2
# application/vnd.dvb.ipdcesgpdd
# application/vnd.dvb.ipdcroaming
#
application/vnd.dvb.iptv.alfec-base
# application/vnd.dvb.iptv.alfec-enhancement
# application/vnd.dvb.notif-aggregate-root+xml
# application/vnd.dvb.notif-container+xml
# application/vnd.dvb.notif-generic+xml
# application/vnd.dvb.notif-ia-msglist+xml
# application/vnd.dvb.notif-ia-registration-request+xml
```

# application/vnd.dvb.notif-ia-registration-response+xml  
# application/vnd.dvb.notif-init+xml  
# application/vnd.dvb.pfr  
application/vnd.dvb.service svc  
# application/vnd.dxr  
application/vnd.dynageo geo  
# application/vnd.dzr  
# application/vnd.easykaraoke.cdgdownload  
# application/vnd.ecdis-update  
application/vnd.ecowin.chart mag  
# application/vnd.ecowin.filerequest  
# application/vnd.ecowin.fileupdate  
# application/vnd.ecowin.series  
# application/vnd.ecowin.seriesrequest  
# application/vnd.ecowin.seriesupdate  
# application/vnd.emclient.accessrequest+xml  
application/vnd.enliven nml  
# application/vnd.enphase.envoy  
# application/vnd.eprints.data+xml  
application/vnd.epson.esf esf  
application/vnd.epson.msf msf  
application/vnd.epson.quickanime qam  
application/vnd.epson.salt slt  
application/vnd.epson.ssf ssf  
#  
application/vnd.ericsson.quickcall  
application/vnd.eszigno3+xml es3 et3  
# application/vnd.etsi.aoc+xml  
# application/vnd.etsi.asic-e+zip  
# application/vnd.etsi.asic-s+zip  
# application/vnd.etsi.cug+xml  
# application/vnd.etsi.iptvcommand+xml  
# application/vnd.etsi.iptvdiscovery+xml  
# application/vnd.etsi.iptvprofile+xml  
# application/vnd.etsi.iptvsad-bc+xml  
# application/vnd.etsi.iptvsad-cod+xml  
# application/vnd.etsi.iptvsad-npvr+xml  
# application/vnd.etsi.iptvservice+xml  
# application/vnd.etsi.iptvsync+xml  
# application/vnd.etsi.iptvueprofile+xml  
# application/vnd.etsi.mcid+xml  
# application/vnd.etsi.mheg5  
# application/vnd.etsi.overload-control-policy-dataset+xml  
# application/vnd.etsi.pstn+xml  
# application/vnd.etsi.sci+xml  
# application/vnd.etsi.simservs+xml  
# application/vnd.etsi.timestamp-token  
# application/vnd.etsi.tsl+xml

```
# application/vnd.etsi.tsl.der
#
application/vnd.eudora.data
application/vnd.ezpix-album ez2
application/vnd.ezpix-package ez3
# application/vnd.f-secure.mobile
# application/vnd.fastcopy-disk-image
application/vnd.fdf fdf
application/vnd.fdsn.mseed mseed
application/vnd.fdsn.seed seed dataless
# application/vnd.ffsns
# application/vnd.filmit.zfc
# application/vnd.fints
# application/vnd.firemonkeys.cloudcell
application/vnd.flographit gph
application/vnd.fluxtime.clip ftc
# application/vnd.font-fontforge-sfd
application/vnd.frameMaker fm frame maker book
application/vnd.frogans.fnc fnc
application/vnd.frogans.ltf ltf
application/vnd.fsc.weblaunch fsc
application/vnd.fujitsu.oasys oas
application/vnd.fujitsu.oasys2 oa2
application/vnd.fujitsu.oasys3 oa3
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twds  
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application/vnd.smf mmf  
# application/vnd.smart.notebook  
application/vnd.smart.teacher teacher  
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# application/vnd.sss-dtf  
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application/vnd.stardivision.writer sdw vor  
application/vnd.stardivision.writer-global sgl  
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# application/vnd.tml  
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# application/vnd.uplanet.cacheop-wbxml
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# application/vnd.uplanet.channel-wbxml
# application/vnd.uplanet.list
# application/vnd.uplanet.list-wbxml
# application/vnd.uplanet.listcmd
# application/vnd.uplanet.listcmd-wbxml
# application/vnd.uplanet.signal
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```

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text/vnd.wap.wmlscript wmls  
text/x-asm s asm  
text/x-c c cc cxx cpp h hh dic  
text/x-fortran f for f77 f90  
text/x-java-source java  
text/x-nfo nfo  
text/x-opml opml  
text/x-pascal p pas  
text/x-setext etx  
text/x-sfv sfv  
text/x-uuencode uu  
text/x-vcalendar vcs  
text/x-vcard vcf  
# text/xml

# text/xml-external-parsed-entity  
# video/1d-interleaved-parityfec  
video/3gpp 3gp  
# video/3gpp-tt  
video/3gpp2 3g2  
# video/bmpeg  
# video/bt656  
# video/celb  
# video/dv  
# video/encaprtsp  
#  
video/example  
video/h261 h261  
video/h263 h263  
# video/h263-1998  
# video/h263-2000  
video/h264 h264  
# video/h264-rcdo  
# video/h264-svc  
# video/h265  
# video/iso.segment  
video/jpeg jpgv  
# video/jpeg2000  
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video/mj2 mj2 mjp2  
# video/mp1s  
# video/mp2p  
# video/mp2t  
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# video/mp4v-es  
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# video/mpeg4-generic  
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# video/pointer  
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video/x-ms-wm wm  
video/x-ms-wmv wmv  
video/x-ms-wmx wmx  
video/x-ms-wvx wvx  
video/x-msvideo avi

video/x-sgi-movie movie  
video/x-smv smv  
x-conference/x-cooltalk ice

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in path(s):

\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/mime.types

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\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/jsf/DecoratingNavigationHandler.java

\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/bind/annotation/InitBinder.java

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/opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/jsf/DelegatingPhaseListenerMulticaster.java

\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/client/ResourceAccessException.java

\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/bind/support/SessionStatus.java

\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/util/IntrospectorCleanupListener.java

\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/bind/ServletRequestParameterException.java

\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/bind/ServletRequestBindingException.java

\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/HttpMediaTypeNotAcceptableException.java

\*

/opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/context/ConfigurableWebEnvironment.java  
\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/bind/annotation/ValueConstants.java  
\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/remoting/jaxws/JaxWsSoapFaultException.java  
\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/client/AbstractClientHttpResponse.java  
\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/remoting/httpinvoker/HttpInvokerClientConfiguration.java  
\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/context/support/SpringBeanAutowiringSupport.java  
\* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/MediaTypeEditor.java

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/opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/http/converter/json/SpringHandlerInstantiator.java

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 \* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/remoting/httpinvoker/HttpInvokerRequestExecutor.java  
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 \* /opt/cola/permits/1135880101\_1613624385.9/0/spring-web-5-2-7-release-sources-1-jar/org/springframework/web/server/session/WebSessionManager.java  
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/opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-
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* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-
jar/org/springframework/web/context/annotation/RequestScope.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-
jar/org/springframework/web/bind/support/WebBindingInitializer.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-
jar/org/springframework/web/context/WebApplicationContext.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-
jar/org/springframework/web/context/request/SessionScope.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-
jar/org/springframework/web/cors/reactive/CorsConfigurationSource.java
*
/opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-
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jar/org/springframework/web/filter/CompositeFilter.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-
jar/org/springframework/web/server/WebHandler.java
* /opt/cola/permits/1135880101_1613624385.9/0/spring-web-5-2-7-release-sources-1-
jar/org/springframework/web/server/session/WebSessionIdResolver.java
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jar/org/springframework/web/multipart/MultipartHttpServletRequest.java
```

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jar/org/springframework/transaction/event/ApplicationListenerMethodTransactionalAdapter.java
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jar/org/springframework/transaction/TransactionExecution.java

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\* /opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/transaction/config/JtaTransactionManagerFactoryBean.java  
\* /opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/transaction/TransactionDefinition.java  
\* /opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/transaction/interceptor/TransactionAttribute.java  
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\* /opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/transaction/jta/ManagedTransactionAdapter.java  
\* /opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/jca/cci/InvalidResultSetAccessException.java  
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/opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/jca/cci/connection/NotSupportedRecordFactory.java  
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\* /opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/dao/TransientDataAccessResourceException.java  
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\* /opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/transaction/support/TransactionSynchronizationAdapter.java  
\* /opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/dao/annotation/PersistenceExceptionTranslationAdvisor.java  
\* /opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/transaction/TransactionUsageException.java  
\* /opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/dao/DataIntegrityViolationException.java  
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\* /opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/transaction/TransactionTimedOutException.java  
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\* /opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/transaction/jta/JtaAfterCompletionSynchronization.java  
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jar/org/springframework/dao/PermissionDeniedDataAccessException.java  
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/opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/transaction/jta/SimpleTransactionFactory.java  
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\* /opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/dao/annotation/PersistenceExceptionTranslationPostProcessor.java  
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jar/org/springframework/dao/support/PersistenceExceptionTranslator.java  
\* /opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-  
jar/org/springframework/jca/cci/core/RecordCreator.java  
\*  
/opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-  
jar/org/springframework/transaction/config/TxAdviceBeanDefinitionParser.java  
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\* /opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/transaction/config/JtaTransactionManagerBeanDefinitionParser.java  
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\* /opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/dao/NonTransientDataAccessResourceException.java  
\* /opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/transaction/event/TransactionPhase.java  
\*  
/opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/transaction/support/TransactionCallbackWithoutResult.java  
\* /opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/dao/TransientDataAccessException.java  
\* /opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/jca/cci/connection/ConnectionSpecConnectionFactoryAdapter.java  
\* /opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-jar/org/springframework/jca/cci/object/EisOperation.java  
\* /opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-



jar/org/springframework/jca/support/ResourceAdapterFactoryBean.java  
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jar/org/springframework/jca/context/BootstrapContextAwareProcessor.java  
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jar/org/springframework/dao/DataAccessResourceFailureException.java  
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jar/org/springframework/jca/cci/connection/DelegatingConnectionFactory.java  
\* /opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-  
jar/org/springframework/transaction/interceptor/BeanFactoryTransactionAttributeSourceAdvisor.java  
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jar/org/springframework/dao/DataAccessException.java  
\* /opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-  
jar/org/springframework/dao/DataRetrievalFailureException.java  
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/opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-  
jar/org/springframework/jca/context/ResourceAdapterApplicationContext.java  
\* /opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-  
jar/org/springframework/dao/ConcurrencyFailureException.java  
\* /opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-  
jar/org/springframework/dao/UncategorizedDataAccessException.java  
\* /opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-  
jar/org/springframework/transaction/TransactionSystemException.java  
\* /opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-  
jar/org/springframework/jca/support/SimpleBootstrapContext.java  
\* /opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-  
jar/org/springframework/jca/cci/core/support/CommAreaRecord.java  
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jar/org/springframework/transaction/support/CallbackPreferringPlatformTransactionManager.java  
\* /opt/cola/permits/1135880286\_1613624458.77/0/spring-tx-5-2-7-release-sources-2-  
jar/org/springframework/dao/OptimisticLockingFailureException.java  
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# 1.645 spring-aspects 5.2.7.RELEASE

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\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/CascadableDescriptor.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintTarget.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/FutureOrPresent.java

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/opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/MethodDescriptor.java

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\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/UnexpectedTypeException.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/BeanDescriptor.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-

jar/javax/validation/constraints/Digits.java  
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jar/javax/validation/ConstraintDefinitionException.java  
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jar/javax/validation/spi/ValidationProvider.java  
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jar/javax/validation/ElementKind.java  
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/opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
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jar/javax/validation/Path.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
jar/javax/validation/executable/package-info.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
jar/javax/validation/valueextraction/package-info.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-  
jar/javax/validation/constraints/PositiveOrZero.java

\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ValueExtractorDefinitionException.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/BootstrapConfiguration.java  
\*  
/opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ElementDescriptor.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ContainerElementTypeDescriptor.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/GroupDefinitionException.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Min.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/groups/ConvertGroup.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/Scope.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Max.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ReportAsSingleViolation.java  
\*  
/opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ReturnValueDescriptor.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ParameterNameProvider.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Pattern.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/NoProviderFoundException.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Validation.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidatorContext.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NotBlank.java  
\*  
/opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/package-info.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Constraint.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Valid.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/CrossParameterDescriptor.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ClockProvider.java  
\* /opt/cola/permits/1135880235\_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-

```

jar/javax/validation/Configuration.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/executable/ValidateOnExecution.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Size.java
*
/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/PastOrPresent.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintViolationException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/bootstrap/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/TraversableResolver.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/executable/ExecutableValidator.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ValidationProviderResolver.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ValidatorFactory.java
*
/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/ContainerDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/ConstraintDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/ParameterDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/NotNull.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/GroupSequence.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Negative.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintValidatorFactory.java
*
/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ValidationException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/OverridesAttribute.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/spi/BootstrapState.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Email.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintDeclarationException.java

```

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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/PropertyDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintValidator.java
*
/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/executable/ExecutableType.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/AssertFalse.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Future.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/DecimalMax.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Positive.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/NotEmpty.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/spi/ConfigurationState.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/Payload.java
*
/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/DecimalMin.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Past.java
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~

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```

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/META-
INF/maven/jakarta.validation/jakarta.validation-api/pom.xml

```

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## 1.648 hibernate-commons-annotations

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Version 2.1, February 1999

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- \* /opt/cola/permits/1135880092\_1613624048.43/0/spring-security-crypto-5-3-3-release-sources-1-jar/org/springframework/security/crypto/password/DelegatingPasswordEncoder.java
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- /opt/cola/permits/1135880092\_1613624048.43/0/spring-security-crypto-5-3-3-release-sources-1-jar/org/springframework/security/crypto/password/Md4PasswordEncoder.java
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\* /opt/cola/permits/1135880092\_1613624048.43/0/spring-security-crypto-5-3-3-release-sources-1-jar/org/springframework/security/crypto/password/PasswordEncoderUtils.java  
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/opt/cola/permits/1135880092\_1613624048.43/0/spring-security-crypto-5-3-3-release-sources-1-jar/org/springframework/security/crypto/factory/PasswordEncoderFactories.java  
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*/
/**
* Base64 encoder which is a reduced version of Robert Harder's public domain
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*
* @author
* Luke Taylor
* @since 3.0
* @deprecated Use java.util.Base64
*/
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\*

/opt/cola/permits/1135880092\_1613624048.43/0/spring-security-crypto-5-3-3-release-sources-1-jar/org/springframework/security/crypto/scrypt/SCryptPasswordEncoder.java

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Found in path(s):

\* /opt/cola/permits/1135880092\_1613624048.43/0/spring-security-crypto-5-3-3-release-sources-1-jar/org/springframework/security/crypto/codec/Utf8.java

\* /opt/cola/permits/1135880092\_1613624048.43/0/spring-security-crypto-5-3-3-release-sources-1-jar/org/springframework/security/crypto/codec/Hex.java

\*

/opt/cola/permits/1135880092\_1613624048.43/0/spring-security-crypto-5-3-3-release-sources-1-jar/org/springframework/security/crypto/codec/package-info.java

\* /opt/cola/permits/1135880092\_1613624048.43/0/spring-security-crypto-5-3-3-release-sources-1-jar/org/springframework/security/crypto/password/AbstractPasswordEncoder.java

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\* /opt/cola/permits/1135880092\_1613624048.43/0/spring-security-crypto-5-3-3-release-sources-1-jar/org/springframework/security/crypto/encrypt/BytesEncryptor.java

\* /opt/cola/permits/1135880092\_1613624048.43/0/spring-security-crypto-5-3-3-release-sources-1-jar/org/springframework/security/crypto/password/NoOpPasswordEncoder.java

\*

/opt/cola/permits/1135880092\_1613624048.43/0/spring-security-crypto-5-3-3-release-sources-1-jar/org/springframework/security/crypto/encrypt/HexEncodingTextEncryptor.java

\* /opt/cola/permits/1135880092\_1613624048.43/0/spring-security-crypto-5-3-3-release-sources-1-jar/org/springframework/security/crypto/keygen/KeyGenerators.java

\* /opt/cola/permits/1135880092\_1613624048.43/0/spring-security-crypto-5-3-3-release-sources-1-jar/org/springframework/security/crypto/encrypt/BouncyCastleAesCbcBytesEncryptor.java

\* /opt/cola/permits/1135880092\_1613624048.43/0/spring-security-crypto-5-3-3-release-sources-1-jar/org/springframework/security/crypto/encrypt/BouncyCastleAesBytesEncryptor.java

\* /opt/cola/permits/1135880092\_1613624048.43/0/spring-security-crypto-5-3-3-release-sources-1-jar/org/springframework/security/crypto/encrypt/CipherUtils.java

\* /opt/cola/permits/1135880092\_1613624048.43/0/spring-security-crypto-5-3-3-release-sources-1-

jar/org/springframework/security/crypto/password/StandardPasswordEncoder.java  
\*  
/opt/cola/permits/1135880092\_1613624048.43/0/spring-security-crypto-5-3-3-release-sources-1-  
jar/org/springframework/security/crypto/util/EncodingUtils.java  
\* /opt/cola/permits/1135880092\_1613624048.43/0/spring-security-crypto-5-3-3-release-sources-1-  
jar/org/springframework/security/crypto/keygen/StringKeyGenerator.java  
\* /opt/cola/permits/1135880092\_1613624048.43/0/spring-security-crypto-5-3-3-release-sources-1-  
jar/org/springframework/security/crypto/keygen/HexEncodingStringKeyGenerator.java  
\* /opt/cola/permits/1135880092\_1613624048.43/0/spring-security-crypto-5-3-3-release-sources-1-  
jar/org/springframework/security/crypto/encrypt/BouncyCastleAesGcmBytesEncryptor.java  
\* /opt/cola/permits/1135880092\_1613624048.43/0/spring-security-crypto-5-3-3-release-sources-1-  
jar/org/springframework/security/crypto/keygen/SharedKeyGenerator.java  
\* /opt/cola/permits/1135880092\_1613624048.43/0/spring-security-crypto-5-3-3-release-sources-1-  
jar/org/springframework/security/crypto/password/PasswordEncoder.java  
\*  
/opt/cola/permits/1135880092\_1613624048.43/0/spring-security-crypto-5-3-3-release-sources-1-  
jar/org/springframework/security/crypto/keygen/BytesKeyGenerator.java  
\* /opt/cola/permits/1135880092\_1613624048.43/0/spring-security-crypto-5-3-3-release-sources-1-  
jar/org/springframework/security/crypto/keygen/SecureRandomBytesKeyGenerator.java  
\* /opt/cola/permits/1135880092\_1613624048.43/0/spring-security-crypto-5-3-3-release-sources-1-  
jar/org/springframework/security/crypto/encrypt/TextEncryptor.java  
\* /opt/cola/permits/1135880092\_1613624048.43/0/spring-security-crypto-5-3-3-release-sources-1-  
jar/org/springframework/security/crypto/encrypt/AesBytesEncryptor.java

# 1.650 spring-cloud-commons 2.2.3.RELEASE

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Found in path(s):

```
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
jar/org/springframework/beans/factory/support/BeanDefinitionRegistryPostProcessor.java
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```
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
jar/org/springframework/beans/factory/config/InstantiationAwareBeanPostProcessor.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
jar/org/springframework/beans/factory/annotation/Value.java
```

\*  
/opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/propertyeditors/StringTrimmerEditor.java  
\* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/factory/config/BeanFactoryPostProcessor.java  
\* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/factory/support/GenericBeanDefinition.java  
\* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/factory/support/RootBeanDefinition.java  
\* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/factory/config/ConstructorArgumentValues.java  
\* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/factory/config/TypedStringValue.java  
\* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/factory/support/ReplaceOverride.java  
\*  
/opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/factory/xml/PluggableSchemaResolver.java  
\* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/factory/config/AutowiredPropertyMarker.java  
\* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/factory/config/AutowireCapableBeanFactory.java  
\* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/factory/annotation/Autowired.java  
\* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/factory/config/PropertyPlaceholderConfigurer.java  
\* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/propertyeditors/UIIDEditor.java  
\*  
/opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/BeanMetadataElement.java  
\* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/factory/support/DefaultBeanNameGenerator.java  
\* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/PropertyValue.java  
\* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/factory/support/StaticListableBeanFactory.java  
\* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/propertyeditors/CustomMapEditor.java  
\* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/PropertyDescriptorUtils.java  
\* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/propertyeditors/CustomCollectionEditor.java  
\*  
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\* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/factory/config/BeanPostProcessor.java

\* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-  
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 \* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-  
 jar/org/springframework/beans/factory/support/CglibSubclassingInstantiationStrategy.java  
 \* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-  
 jar/org/springframework/beans/propertyeditors/StringArrayPropertyEditor.java  
 \* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-  
 jar/org/springframework/beans/factory/InjectionPoint.java  
 \*  
 /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-  
 jar/org/springframework/beans/ExtendedBeanInfo.java  
 \* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-  
 jar/org/springframework/beans/TypeConverter.java  
 \* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-  
 jar/org/springframework/beans/TypeConverterDelegate.java  
 \* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-  
 jar/org/springframework/beans/factory/groovy/GroovyBeanDefinitionReader.java  
 \* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-  
 jar/org/springframework/beans/factory/xml/DelegatingEntityResolver.java  
 \* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-  
 jar/org/springframework/beans/PropertyBatchUpdateException.java  
 \* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-  
 jar/org/springframework/beans/factory/xml/ResourceEntityResolver.java  
 \*  
 /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-  
 jar/org/springframework/beans/factory/groovy/GroovyBeanDefinitionWrapper.java  
 \* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-  
 jar/org/springframework/beans/factory/annotation/InitDestroyAnnotationBeanPostProcessor.java  
 \* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-  
 jar/org/springframework/beans/factory/config/RuntimeBeanReference.java  
 \* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-  
 jar/org/springframework/beans/factory/config/PreferencesPlaceholderConfigurer.java  
 \* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-  
 jar/org/springframework/beans/factory/config/YamlPropertiesFactoryBean.java  
 \* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-  
 jar/org/springframework/beans/factory/support/AbstractBeanDefinitionReader.java  
 \*  
 /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-  
 jar/org/springframework/beans/factory/config/YamlMapFactoryBean.java  
 \* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-  
 jar/org/springframework/beans/factory/annotation/ParameterResolutionDelegate.java  
 \* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-  
 jar/org/springframework/beans/factory/support/BeanDefinitionDefaults.java  
 \* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-  
 jar/org/springframework/beans/factory/support/AutowireUtils.java  
 \* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-  
 jar/org/springframework/beans/factory/annotation/AutowiredAnnotationBeanPostProcessor.java  
 \* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-

```
jar/org/springframework/beans/factory/xml/BeansDtdResolver.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
jar/org/springframework/beans/factory/config/BeanDefinitionVisitor.java
*
/opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
jar/org/springframework/beans/factory/annotation/AnnotatedGenericBeanDefinition.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
jar/org/springframework/beans/AbstractNestablePropertyAccessor.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
jar/org/springframework/beans/TypeConverterSupport.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
jar/org/springframework/beans/factory/BeanFactoryUtils.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
jar/org/springframework/beans/factory/support/DisposableBeanAdapter.java
* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
jar/org/springframework/beans/annotation/AnnotationBeanUtils.java
*
/opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
jar/org/springframework/beans/factory/support/MethodOverrides.java
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* /opt/cola/permits/1135880012_1613624462.88/0/spring-beans-5-2-7-release-sources-1-
jar/org/springframework/beans/factory/annotation/Autowired.java
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jar/org/springframework/beans/factory/xml/AbstractSingleBeanDefinitionParser.java  
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/opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-  
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\* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-  
jar/org/springframework/beans/factory/config/DeprecatedBeanWarner.java  
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\* /opt/cola/permits/1135880012\_1613624462.88/0/spring-beans-5-2-7-release-sources-1-jar/org/springframework/beans/propertyeditors/TimeZoneEditor.java

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# 1.652 spring-oxm 5.2.7.RELEASE

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# 1.653 spring-cloud-context 2.2.3.RELEASE

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Found in path(s):

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/tags/form/HiddenInputTag.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/theme/ThemeChangeInterceptor.java

\*

/opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/i18n/AbstractLocaleResolver.java

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* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/mvc/method/annotation/RequestAttributeMethodArgumentResolver.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/support/JspAwareRequestContext.java
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/opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/handler/AbstractHandlerMethodExceptionResolver.java
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* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/config/annotation/ResourceHandlerRegistration.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
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/opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
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jar/org/springframework/web/servlet/config/annotation/ViewControllerRegistration.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/mvc/method/annotation/ModelAndViewMethodReturnValueHandler.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/view/tiles3/TilesView.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/mvc/method/annotation/AsyncTaskMethodReturnValueHandler.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/mvc/method/annotation/PathVariableMapMethodArgumentResolver.java
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/opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/config/annotation/EnableWebMvc.java  
\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/ServletWebArgumentResolverAdapter.java  
\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/handler/SimpleServletPostProcessor.java  
\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/resource/ResourceResolver.java  
\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/FlashMap.java  
\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/ServletRequestDataBinderFactory.java  
\*  
/opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/i18n/SessionLocaleResolver.java  
\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/JsonViewRequestBodyAdvice.java  
\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/RedirectAttributesMethodArgumentResolver.java  
\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/ServletCookieValueMethodArgumentResolver.java  
\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/handler/HandlerInterceptorAdapter.java  
\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/view/InternalResourceView.java  
\*  
/opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/config/ViewControllerBeanDefinitionParser.java  
\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/JsonViewResponseBodyAdvice.java  
\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/CallableMethodReturnValueHandler.java  
\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/ExtendedServletRequestDataBinder.java  
\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/tags/Param.java  
\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/RequestToViewNameTranslator.java  
\*  
/opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/config/CorsBeanDefinitionParser.java  
\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/i18n/FixedLocaleResolver.java  
\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/view/xslt/XsltViewResolver.java  
\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/AsyncHandlerInterceptor.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/view/script/ScriptTemplateViewResolver.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/i18n/AbstractLocaleContextResolver.java

\*

/opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/view/freemarker/FreeMarkerConfig.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/view/groovy/GroovyMarkupView.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/handler/WebRequestHandlerInterceptorAdapter.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/view/feed/AbstractRssFeedView.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/theme/SessionThemeResolver.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/LocaleResolver.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/view/tiles3/TilesConfigurer.java

\*

/opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/support/JstlUtils.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/resource/HttpResource.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/view/document/AbstractXlsView.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/ServletForwardingController.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/ParameterizableViewController.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/ThemeResolver.java

\*

/opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/support/RedirectAttributesModelMap.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/view/InternalResourceViewResolver.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/LocaleContextResolver.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/resource/AbstractResourceResolver.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/ModelAndViewResolverMethodReturnValueHandler.java

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\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/condition/RequestConditionHolder.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/RequestBodyAdvice.java

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*
/opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/mvc/method/annotation/ServletModelAttributeMethodProcessor.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/view/tiles3/SpringWildcardServletTilesApplicationContext.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/view/tiles3/TilesViewResolver.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/config/annotation/RedirectViewControllerRegistration.java
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/theme/FixedThemeResolver.java
*
```

```
/opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/mvc/method/annotation/HttpHeadersReturnValueHandler.java
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* limitations under the License.
*/
/**
* A contract for inspecting and potentially modifying request data values such
* as URL query parameters or form field values before they are rendered by a
* view or before a redirect.
*
* <p>Implementations may use this contract for example as part of a solution
* to provide data integrity, confidentiality,
* protection against cross-site
* request forgery (CSRF), and others or for other tasks such as automatically
* adding a hidden field to all forms and URLs.
*
* <p>View technologies that support this contract can obtain an instance to
* delegate to via { @link RequestContext#getRequestDataValueProcessor()}.
*
* @author Rossen Stoyanchev
* @since 3.1
*/
```

Found in path(s):

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/support/RequestDataValueProcessor.java

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Found in path(s):

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/ResponseEntityExceptionHandler.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/config/annotation/DefaultServletHandlerConfigurer.java

\*

/opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/resource/WebJarsResourceResolver.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/DeferredResultMethodReturnValueHandler.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/handler/AbstractUrlHandlerMapping.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/i18n/LocaleChangeInterceptor.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/config/annotation/DelegatingWebMvcConfiguration.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/WebContentInterceptor.java

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/opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/method/RequestMappingInfoHandlerMethodMappingNamingStrategy.java

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\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/config/MvcNamespaceUtils.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/ReactiveTypeHandler.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/view/RedirectView.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/function/EntityResponse.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/ViewMethodReturnValueHandler.java

\*

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\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/support/AbstractFlashMapManager.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/function/support/RouterFunctionMapping.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/function/ServerResponse.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/function/ResourceHandlerFunction.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/view/script/ScriptTemplateConfig.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/function/RenderingResponse.java

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/opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/function/HandlerFunction.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/resource/CachingResourceResolver.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/resource/CachingResourceTransformer.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/ExceptionHandlerExceptionResolver.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/ServletWrappingController.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/view/DefaultRequestToViewNameTranslator.java

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/opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/function/HandlerFilterFunction.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/resource/ResourceUrlProviderExposingInterceptor.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/ViewNameMethodReturnValueHandler.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/resource/CssLinkResourceTransformer.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/resource/VersionResourceResolver.java

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```
/**
 * XSLT-driven View that allows for response context to be rendered as the
 * result of an XSLT transformation.
 *
 * <p>The XSLT Source object is supplied as a parameter in the model and then
 * { @link #locateSource detected} during response rendering. Users can either specify
 * a specific entry in the
 * model via the { @link #setSourceKey sourceKey} property or
 * have Spring locate the Source object. This class also provides basic conversion
 * of objects into Source implementations. See { @link #getSourceTypes() here}
 * for more details.
 *
 * <p>All model parameters are passed to the XSLT Transformer as parameters.
 * In addition the user can configure { @link #setOutputProperties output properties}
 * to be passed to the Transformer.
 *
 * @author Rob Harrop
 * @author Juergen Hoeller
 * @since 2.0
 */
```

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```
* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/view/xslt/XsltView.java
```

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jar/org/springframework/web/servlet/tags/form/PasswordInputTag.java
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* /opt/cola/permits/1135880214_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-
jar/org/springframework/web/servlet/support/SessionFlashMapManager.java
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/opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/AbstractMappingJacksonResponseBodyAdvice.java  
\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/config/annotation/UrlBasedViewResolverRegistration.java  
\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/FlashMapManager.java  
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\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/support/DefaultHandlerExceptionHandlerResolver.java

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/opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/view/freemarker/FreeMarkerConfigurer.java

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\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/ViewResolver.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/tags/form/CheckboxTag.java

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/opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/view/document/AbstractPdfStamperView.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/resource/DefaultServletHttpRequestHandler.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/tags/form/TextareaTag.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/resource/GzipResourceResolver.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/theme/CookieThemeResolver.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/view/script/RenderingContext.java

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/opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/RequestPartMethodArgumentResolver.java

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\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/resource/ResourceTransformerSupport.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/ModelAndView.java

\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/tags/form/InputTag.java

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\* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/view/json/MappingJackson2JsonView.java

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/opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-  
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- \* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/RequestMappingHandlerAdapter.java
- \* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/HttpEntityMethodProcessor.java
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- \* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/handler/AbstractHandlerMethodMapping.java
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- \* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/config/annotation/ResourceHandlerRegistry.java
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jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurationSupport.java  
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jar/org/springframework/web/servlet/mvc/method/annotation/MvcUriComponentsBuilder.java  
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jar/org/springframework/web/servlet/function/ServerRequest.java  
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- \* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/handler/RequestMatchResult.java
- \* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/config/InterceptorsBeanDefinitionParser.java
- \*
- /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/condition/RequestCondition.java
- \* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/view/tiles3/SpringLocaleResolver.java
- \* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/view/ViewResolverComposite.java
- \* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/resource/ResourceTransformer.java
- \* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/Controller.java
- \* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/mvc/method/annotation/StreamingResponseBody.java
- \* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/view/AbstractTemplateViewResolver.java
- \*
- /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/view/AbstractTemplateView.java
- \* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurerComposite.java
- \* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/config/MvcNamespaceHandler.java
- \* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/config/DefaultServletHandlerBeanDefinitionParser.java
- \* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/handler/MatchableHandlerMapping.java
- \* /opt/cola/permits/1135880214\_1613624081.79/0/spring-webmvc-5-2-7-release-sources-2-jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurerAdapter.java

## 1.658 spring-data-jpa 2.3.1.RELEASE

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```

Found in path(s):

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* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/MemberValue.java
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jar/javassist/bytecode/annotation/AnnotationMemberValue.java
*
/opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/DoubleMemberValue.java
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jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
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/opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
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jar/javassist/bytecode/annotation/BooleanMemberValue.java  
\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-  
jar/javassist/bytecode/annotation/IntegerMemberValue.java  
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jar/javassist/bytecode/annotation/ArrayMemberValue.java  
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jar/javassist/bytecode/annotation/LongMemberValue.java  
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jar/javassist/bytecode/InstructionPrinter.java

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\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/AnnotationsAttribute.java  
\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/tools/reflect/CannotInvokeException.java  
\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/LongVector.java  
\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/tools/reflect/Compiler.java  
\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/tools/web/Viewer.java  
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/opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/compiler/ast/FieldDecl.java  
\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/CtNewConstructor.java  
\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/compiler/ast/CastExpr.java  
\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/SerialVersionUID.java  
\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/util/proxy/DefinePackageHelper.java  
\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/tools/reflect/Metaobject.java  
\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/convert/TransformAfter.java  
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jar/javassist/bytecode/AnnotationDefaultAttribute.java  
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\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-  
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\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/LoaderClassPath.java  
\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-  
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\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/expr/Instanceof.java  
\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-  
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/opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/CtNewMethod.java  
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jar/javassist/tools/reflect/Sample.java  
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jar/javassist/convert/TransformAccessArrayField.java  
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\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/ClassPool.java  
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/opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/ClassPath.java  
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\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-  
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jar/javassist/bytecode/StackMapTable.java
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* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/runtime/Cflow.java
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jar/javassist/util/proxy/FactoryHelper.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
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/opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
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* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
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* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
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* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
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* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-

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jar/javassist/CtNewWrappedMethod.java  
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jar/javassist/bytecode/SourceFileAttribute.java  
\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/CtPrimitiveType.java  
\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-  
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\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-  
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\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-  
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\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-  
jar/javassist/convert/TransformWriteField.java  
\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-  
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\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-  
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\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-  
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\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-  
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\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/expr/Cast.java

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/opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/util/proxy/Proxy.java  
\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/tools/rmi/RemoteException.java  
\* /opt/cola/permits/1135880377\_1613624050.66/0/javassist-3-24-0-ga-sources-5-

```
jar/javassist/bytecode/analysis/Executor.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/analysis/MultiType.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/compiler/ast/MethodDecl.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/ClassFile.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/analysis/MultiArrayType.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/CannotCompileException.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/util/proxy/RuntimeSupport.java
*
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/AttributeInfo.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/FieldInfo.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/tools/rmi/ObjectNotFoundException.java
```

# 1.660 spring-context 5.2.7.RELEASE

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```
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* limitations under the License.
*/
/**
* Indicates that a component is only eligible for registration when all
* { @linkplain #value specified conditions } match.
*
* <p>A <em>condition</em> is any state that can be determined programmatically
* before the bean definition is due to be registered (see { @link Condition } for details).
```

\*  
 \*  
 \* <p>The { @code @Conditional } annotation may be used in any of the following ways:  
 \* <ul>  
 \* <li>as a type-level annotation on any class directly or indirectly annotated with  
 \* { @code @Component }, including { @link Configuration @Configuration } classes</li>  
 \* <li>as a meta-annotation, for the purpose of composing custom stereotype  
 \* annotations</li>  
 \* <li>as a method-level annotation on any { @link Bean @Bean } method</li>  
 \* </ul>

\*  
 \* <p>If a { @code @Configuration } class is marked with { @code @Conditional },  
 \* all of the { @code @Bean } methods, { @link Import @Import } annotations, and  
 \* { @link ComponentScan @ComponentScan } annotations associated with that  
 \* class will be subject to the conditions.

\*  
 \* <p><strong>NOTE</strong>: Inheritance of { @code @Conditional } annotations  
 \* is not supported; any conditions from superclasses or from overridden  
 \* methods will not be considered. In order to enforce these semantics,  
 \* { @code @Conditional } itself is not declared as  
 \* { @link java.lang.annotation.Inherited  
 \* @Inherited }; furthermore, any  
 \* custom <em>composed annotation</em> that is meta-annotated with  
 \* { @code @Conditional } must not be declared as { @code @Inherited }.

\*  
 \* @author Phillip Webb  
 \* @author Sam Brannen  
 \* @since 4.0  
 \* @see Condition  
 \*/

Found in path(s):

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
 jar/org/springframework/context/annotation/Conditional.java  
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- \*/

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- \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/cache/interceptor/CompositeCacheOperationSource.java
- \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/cache/interceptor/AbstractCacheInvoker.java
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- \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/support/GenericApplicationContext.java
- \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/event/ApplicationEventMulticaster.java
- \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/support/ReloadableResourceBundleMessageSource.java
- \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/instrument/classloading/jboss/JBossLoadTimeWeaver.java
- \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/cache/support/AbstractCacheManager.java
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- \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/annotation/ImportBeanDefinitionRegistrar.java
- \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/annotation/AnnotationConfigRegistry.java
- \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/jmx/support/MBeanServerFactoryBean.java
- \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/scheduling/annotation/Async.java
- \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/ResourceLoaderAware.java
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- /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/ApplicationListener.java
- \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/event/AbstractApplicationEventMulticaster.java
- \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/scheduling/annotation/Scheduled.java
- \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/validation/DataBinder.java
- \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/annotation/ParserStrategyUtils.java

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\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/cache/Cache.java  
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\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/instrument/classloading/InstrumentationLoadTimeWeaver.java  
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/opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/cache/annotation/CacheAnnotationParser.java  
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\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/annotation/AnnotatedBeanDefinitionReader.java  
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/opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/scheduling/annotation/ScheduledAnnotationBeanPostProcessor.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/scheduling/support/TaskUtils.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/jmx/access/MBeanClientInterceptor.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/config/PropertyPlaceholderBeanDefinitionParser.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/instrument/classloading/ShadowingClassLoader.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/support/BeanDefinitionDsl.kt  
\*  
/opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/MessageSource.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/cache/CacheManager.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/jmx/support/MBeanServerConnectionFactoryBean.java  
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jar/org/springframework/context/event/ApplicationListenerMethodAdapter.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/context/annotation/AnnotationConfigApplicationContextExtensions.kt
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/context/annotation/ClassPathBeanDefinitionScanner.java
*
/opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/ui/ModelMap.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/scheduling/config/ScheduledTaskRegistrar.java
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```

Found in path(s):

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jar/org/springframework/cache/interceptor/CacheExpressionRootObject.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
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*
/opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/ejb/access/LocalStatelessSessionProxyFactoryBean.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
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* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
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* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/scripting/ScriptCompilationException.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/cache/interceptor/AbstractCacheResolver.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/context/support/MessageSourceSupport.java
```

\*  
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\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/remoting/rmi/RmiInvocationWrapper.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/cache/interceptor/NameMatchCacheOperationSource.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/format/datetime/standard/DateTimeConverters.java  
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 \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/scheduling/SchedulingTaskExecutor.java  
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* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
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* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/scripting/support/ScriptFactoryPostProcessor.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/cache/interceptor/AbstractFallbackCacheOperationSource.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/cache/annotation/ProxyCachingConfiguration.java
*
/opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/jmx/export/metadata/ManagedAttribute.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/jmx/support/JmxUtils.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/instrument/classloading/websphere/WebSphereClassLoaderAdapter.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/context/support/DefaultLifecycleProcessor.java
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```

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*/
/**
* Abstract the invocation of a cache operation.
*
* <p>Does not provide a way to transmit checked exceptions but
* provide a special exception that should be used to wrap any
* exception that was thrown by the underlying invocation.
* Callers are expected to handle this issue type specifically.
*
* @author Stephane Nicoll
* @since 4.1
*/
```

Found in path(s):

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/cache/interceptor/CacheOperationInvoker.java

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\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/LifecycleProcessor.java

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/\*\*

\* {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}

\* reference through WebSphere's proprietary {@code AdminServiceFactory} API,

\* available on WebSphere 5.1 and higher.

\*

\* <p>Exposes the {@code MBeanServer} for bean references.

```

*
* <p>This { @code FactoryBean } is
  a direct alternative to { @link MBeanServerFactoryBean },
* which uses standard JMX 1.2 API to access the platform's { @link MBeanServer }.
*
* <p>See the javadocs for WebSphere's
* <a
href="https://www.ibm.com/support/knowledgecenter/SSEQTJ_9.0.0/com.ibm.websphere.javadoc.doc/web/apidocs
/com/ibm/websphere/management/AdminServiceFactory.html">{ @code AdminServiceFactory }</a>
* and
* <a
href="https://www.ibm.com/support/knowledgecenter/SSEQTJ_9.0.0/com.ibm.websphere.javadoc.doc/web/apidocs
/com/ibm/websphere/management/MBeanFactory.html">{ @code MBeanFactory }</a>.
*
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

```

Found in path(s):

```

* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java

```

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```

* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/jmx/export/metadata/ManagedOperationParameter.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/jmx/export/SpringModelMBean.java
*

```

```
/opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/remoting/support/RemoteInvocationExecutor.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/remoting/support/RemoteInvocationFactory.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
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```

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```
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/format/datetime/joda/LocalTimeParser.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/format/datetime/joda/ReadablePartialPrinter.java
*
/opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/format/datetime/joda/LocalDateTimeParser.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/context/annotation/Description.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/context/support/MessageSourceResourceBundle.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/format/datetime/joda/ReadableInstantPrinter.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/format/datetime/joda/DateTimeParser.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/context/annotation/FilterType.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/scheduling/concurrent/CustomizableThreadFactory.java
*
/opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/context/annotation/Lazy.java
* /opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
```

jar/org/springframework/format/datetime/joda/MillisecondInstantPrinter.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/context/i18n/LocaleContext.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/format/datetime/joda/LocalDateParser.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/validation/beanvalidation/OptionalValidatorFactoryBean.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/context/i18n/TimeZoneAwareLocaleContext.java  
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jar/org/springframework/format/AnnotationFormatterFactory.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/context/annotation/PropertySources.java  
\*  
/opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/context/ApplicationContext.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/scheduling/config/ContextLifecycleScheduledTaskRegistrar.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/validation/annotation/Validated.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/cache/interceptor/BasicOperation.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/scheduling/annotation/AsyncConfigurerSupport.java  
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\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/jmx/export/assembly/AutodetectCapableMBeanInfoAssembler.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/jmx/access/MBeanInfoRetrievalException.java  
\*  
/opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/format/number/AbstractNumberFormatter.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/ui/context/support/UiApplicationContextUtils.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/remoting/RemoteConnectFailureException.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/jmx/export/MBeanExportException.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/annotation/ScopeMetadata.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/remoting/rmi/RmiInvocationHandler.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/ui/context/support/SimpleTheme.java

\*

/opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/ApplicationContextException.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/jmx/MBeanServerNotFoundException.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/jmx/access/MBeanConnectFailureException.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/NoSuchMessageException.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/scheduling/SchedulingException.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/remoting/support/RemoteInvocationBasedAccessor.java

\*

/opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/annotation/AnnotationConfigBeanDefinitionParser.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/scheduling/Trigger.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/HierarchicalMessageSource.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/ejb/config/JeeNamespaceHandler.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/remoting/rmi/RmiClientInterceptor.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/jmx/export/notification/UnableToSendNotificationException.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/annotation/LoadTimeWeavingConfigurer.java

\*

/opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/remoting/support/RemoteInvocationTraceInterceptor.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/remoting/RemoteLookupFailureException.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/validation/beanvalidation/LocaleContextMessageInterpolator.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/jndi/JndiLookupFailureException.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/scripting/support/RefreshableScriptTargetSource.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-



jar/org/springframework/scheduling/SchedulingAwareRunnable.java  
\*  
/opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/remoting/support/DefaultRemoteInvocationExecutor.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/context/weaving/LoadTimeWeaverAware.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/context/ApplicationContextAware.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/remoting/soap/SoapFaultException.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/instrument/classloading/LoadTimeWeaver.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/ejb/access/EjbAccessException.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/ui/context/ThemeSource.java  
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/opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/context/event/ContextStoppedEvent.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/jmx/export/assembler/MBeanInfoAssembler.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/jmx/export/UnableToRegisterMBeanException.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/jmx/JmxException.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/scheduling/TriggerContext.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/remoting/rmi/RmiBasedExporter.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/validation/BindingResultUtils.java  
\*  
/opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/scheduling/support/DelegatingErrorHandlingRunnable.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/remoting/RemoteInvocationFailureException.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/validation/MessageCodesResolver.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/format/Formatter.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/jmx/access/InvocationFailureException.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/remoting/support/UrlBasedRemoteAccessor.java  
\*  
/opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/jmx/export/metadata/JmxAttributeSource.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-

jar/org/springframework/remoting/support/DefaultRemoteInvocationFactory.java  
 \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
 jar/org/springframework/ejb/config/LocalStatelessSessionBeanDefinitionParser.java  
 \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
 jar/org/springframework/jmx/export/metadata/InvalidMetadataException.java  
 \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
 jar/org/springframework/context/event/ApplicationContextEvent.java  
 \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
 jar/org/springframework/context/event/ContextRefreshedEvent.java  
 \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
 jar/org/springframework/context/config/ContextNamespaceHandler.java  
 \*  
 /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
 jar/org/springframework/ui/context/Theme.java  
 \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
 jar/org/springframework/context/event/ContextClosedEvent.java  
 \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
 jar/org/springframework/context/config/SpringConfiguredBeanDefinitionParser.java  
 \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
 jar/org/springframework/jmx/export/MBeanExporterListener.java  
 \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
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\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/instrument/classloading/weblogic/WebLogicLoadTimeWeaver.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/format/support/FormatterPropertyEditorAdapter.java

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/opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/format/datetime/standard/MonthDayFormatter.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/remoting/support/RemoteInvocationUtils.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/cache/interceptor/KeyGenerator.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/jndi/JndiPropertySource.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/cache/annotation/Cacheable.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/cache/annotation/CacheEvict.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/scheduling/TaskScheduler.java

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/opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/format/datetime/standard/TemporalAccessorParser.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/format/Parser.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/scheduling/annotation/SchedulingConfiguration.java

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\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/format/datetime/standard/PeriodFormatter.java

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\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/scripting/bsh/BshScriptFactory.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/jmx/export/annotation/ManagedNotifications.java

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jar/org/springframework/scripting/support/StandardScriptUtils.java
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jar/org/springframework/scripting/groovy/GroovyObjectCustomizer.java
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jar/org/springframework/context/annotation/ScopeMetadataResolver.java
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/opt/cola/permits/1135880277_1613624409.62/0/spring-context-5-2-7-release-sources-1-
jar/org/springframework/format/datetime/standard/TemporalAccessorPrinter.java
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\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/annotation/ImportAware.java

\*

/opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/annotation/ConflictingBeanDefinitionException.java

\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/jmx/export/notification/NotificationPublisherAware.java

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- \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/ui/ModelMapExtensions.kt
- \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/ui/ModelExtensions.kt

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Found in path(s):

- \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/scheduling/concurrent/ExecutorConfigurationSupport.java
- \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/scripting/groovy/GroovyScriptFactory.java

\*

/opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/annotation/FullyQualifiedAnnotationBeanNameGenerator.java

- \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/annotation/LoadTimeWeavingConfiguration.java

- \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/cache/support/NoOpCacheManager.java

- \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/support/PostProcessorRegistrationDelegate.java

- \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/expression/StandardBeanExpressionResolver.java

- \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/cache/interceptor/SimpleKey.java

- \* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/jmx/support/RegistrationPolicy.java

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\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/annotation/ImportSelector.java  
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/opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/ConfigurableApplicationContext.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/jmx/export/annotation/ManagedAttribute.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/annotation/MBeanExportConfiguration.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/context/annotation/ClassPathScanningCandidateComponentProvider.java  
\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/cache/interceptor/CacheAspectSupport.java  
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/opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-jar/org/springframework/format/datetime/joda/DurationFormatter.java

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\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
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\* /opt/cola/permits/1135880277\_1613624409.62/0/spring-context-5-2-7-release-sources-1-  
jar/org/springframework/scheduling/support/CronTrigger.java

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### SECTION 1: BSD-STYLE, MIT-STYLE, OR SIMILAR STYLE LICENSES

- >>> JLine (jline:jline)
- >>> JOpt Simple (net.sf.jopt-simple:jopt-simple)
- >>> ASM 4.0 (org.ow2.asm:asm)

### SECTION 2: Apache License, V2.0

- >>> JSON library from Android SDK (com.vaadin.external.google:android-json)



- >>> Apache Commons Codec (commons-codec:commons-codec)
- >>> Apache HttpClient (org.apache.httpcomponents:httpClient)
- >>> Apache HttpCore (org.apache.httpcomponents:httpcore)
- >>> Plexus Cipher: encryption/decryption Component (org.sonatype.plexus:plexus-cipher)
- >>> Plexus Security Dispatcher Component (org.sonatype.plexus:plexus-sec-dispatcher)
- >>> Apache Commons Logging (commons-logging:commons-logging)
- >>> Apache Groovy (org.codehaus.groovy:groovy)
- >>> Maven Aether Provider (org.apache.maven:maven-aether-provider)
- >>> Maven Model (org.apache.maven:maven-model)
- >>> Maven Model Builder (org.apache.maven:maven-model-builder)
- >>>
- Maven Repository Metadata Model (org.apache.maven:maven-repository-metadata)
- >>> Maven Settings (org.apache.maven:maven-settings)
- >>> Maven Settings Builder (org.apache.maven:maven-settings-builder)
- >>> Plexus :: Component Annotations (org.codehaus.plexus:plexus-component-annotations)
- >>> Plexus Common Utilities (org.codehaus.plexus:plexus-utils)
- >>> Plexus Component API (org.codehaus.plexus:plexus-component-api)
- >>> Plexus Interpolation API (org.codehaus.plexus:plexus-interpolation)

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- >>> Aether API (org.eclipse.aether:aether-api)
- >>> Aether Connector Basic (org.eclipse.aether:aether-connector-basic)
- >>> Aether Implementation (org.eclipse.aether:aether-impl)
- >>> Aether SPI (org.eclipse.aether:aether-spi)
- >>> Aether Transport File (org.eclipse.aether:aether-transport-file)
- >>> Aether Transport HTTP (org.eclipse.aether:aether-transport-http)
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>>> org.apache.maven:maven-settings-builder
>>> org.codehaus.plexus:plexus-component-annotations
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- \* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/datasource/embedded/DataSourceFactory.java
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- /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/datasource/DataSourceTransactionManager.java
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/opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/core/BeanPropertyRowMapper.java

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jar/org/springframework/jdbc/datasource/LazyConnectionDataSourceProxy.java
* /opt/cola/permits/1135880147_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-
jar/org/springframework/jdbc/support/SQLStateSQLExceptionTranslator.java
* /opt/cola/permits/1135880147_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-
jar/org/springframework/jdbc/datasource/JdbcTransactionObjectSupport.java
* /opt/cola/permits/1135880147_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-
jar/org/springframework/jdbc/support/CustomSQLExceptionTranslatorRegistry.java
* /opt/cola/permits/1135880147_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-
jar/org/springframework/jdbc/core/namedparam/NamedParameterUtils.java
* /opt/cola/permits/1135880147_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-
jar/org/springframework/jdbc/core/simple/AbstractJdbcInsert.java
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jar/org/springframework/jdbc/core/namedparam/SqlParameterSource.java
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jar/org/springframework/jdbc/core/support/AbstractLobStreamingResultSetExtractor.java
* /opt/cola/permits/1135880147_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-
jar/org/springframework/jdbc/core/namedparam/MapSqlParameterSource.java
* /opt/cola/permits/1135880147_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-
jar/org/springframework/jdbc/core/simple/AbstractJdbcCall.java
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jar/org/springframework/jdbc/datasource/init/ResourceDatabasePopulator.java
* /opt/cola/permits/1135880147_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-
jar/org/springframework/jdbc/object/RdbmsOperation.java
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/opt/cola/permits/1135880147_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-
jar/org/springframework/jdbc/core/SingleColumnRowMapper.java
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```

```

/**
* The classes in this package make JDBC easier to use and
* reduce the likelihood of common errors. In particular, they:
* <ul>
* <li>Simplify error handling, avoiding the need for try/catch/finally
* blocks in application code.
* <li>Present exceptions to application code in a generic hierarchy of
* unchecked exceptions, enabling applications to catch data access
* exceptions without being dependent on JDBC, and to ignore fatal
* exceptions there is no value in catching.
* <li>Allow the implementation of error handling to be modified
* to target different RDBMSes without introducing proprietary
* dependencies into application code.
* </ul>
*
* <p>This package and related packages are discussed in Chapter 9 of
* <a href="https://www.amazon.com/exec/obidos/tg/detail/-/0764543857/">Expert One-On-One J2EE Design and
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\* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/package-info.java

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/\*\*

\* Strategy interface for translating between { @link SQLException SQLExceptions }

\* and Spring's data access strategy-agnostic { @link DataAccessException }

\* hierarchy.

\*

\* <p>Implementations can be generic (for example, using

\* { @link java.sql.SQLException#getSQLState() SQLState } codes for JDBC) or

wholly

\* proprietary (for example, using Oracle error codes) for greater precision.

\*

\* @author Rod Johnson

\* @author Juergen Hoeller

\* @see org.springframework.dao.DataAccessException

\*/

Found in path(s):

\* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/support/SQLExceptionTranslator.java

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\* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/datasource/lookup/DataSourceLookup.java  
\* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/datasource/init/CompositeDatabasePopulator.java  
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/opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/core/RowCallbackHandler.java  
\* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/core/PreparedStatementSetter.java  
\* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java  
\* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/core/namedparam/ParsedSql.java  
\* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/support/DatabaseMetaDataCallback.java  
\* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/support/lob/LobHandler.java

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\* limitations under the License.  
\*/  
/\*\*  
\* Close this LobCreator session and free its temporarily created BLOBs and CLOBs.  
\* Will not need to do anything if using PreparedStatement's standard methods,

\* but might be necessary to free database resources if using proprietary means.

\* **NOTE**: Needs to be invoked after the involved

PreparedStatement have

\* been executed or the affected O/R mapping sessions have been flushed.

\* Otherwise, the database resources for the temporary BLOBs might stay allocated.

\*/

Found in path(s):

\* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/support/lob/LobCreator.java

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\* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/core/PreparedStatementCreator.java

\* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/core/metadata/TableMetaDataContext.java

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jar/org/springframework/jdbc/core/metadata/DerbyCallMetaDataProvider.java  
\* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-  
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseConfigurerFactory.java  
\* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-  
jar/org/springframework/jdbc/core/StatementCallback.java  
\* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-  
jar/org/springframework/jdbc/core/RowMapper.java  
\* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-  
jar/org/springframework/jdbc/datasource/embedded/H2EmbeddedDatabaseConfigurer.java  
\* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-  
jar/org/springframework/jdbc/core/SqlReturnUpdateCount.java  
\* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-  
jar/org/springframework/jdbc/support/incrementer/OracleSequenceMaxValueIncrementer.java  
\*  
/opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-  
jar/org/springframework/jdbc/core/ResultSetExtractor.java  
\* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-  
jar/org/springframework/jdbc/object/UpdatableSqlQuery.java  
\* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-  
jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSetMetaData.java  
\* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-  
jar/org/springframework/jdbc/object/SqlQuery.java  
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jar/org/springframework/jdbc/core/ConnectionCallback.java  
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jar/org/springframework/jdbc/datasource/embedded/OutputStreamFactory.java  
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jar/org/springframework/jdbc/support/incrementer/SybaseMaxValueIncrementer.java  
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jar/org/springframework/jdbc/support/incrementer/HanaSequenceMaxValueIncrementer.java  
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- \* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/support/CustomSQLExceptionCodesTranslation.java
- \* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/support/lob/PassThroughBlob.java
- \* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/support/xml/Jdbc4SqlXmlHandler.java
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- \* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactoryBean.java
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- \* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/config/InitializeDatabaseBeanDefinitionParser.java
- \* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/core/support/SqlLobValue.java

\* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/datasource/DelegatingDataSource.java  
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\* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/datasource/ConnectionProxy.java  
\*

/opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/support/lob/PassThroughClob.java

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/opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/datasource/embedded/ConnectionProperties.java

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\* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/datasource/init/UncategorizedScriptException.java

\* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/support/rowset/SqlRowSetMetaData.java

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\* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/support/incrementer/DB2SequenceMaxValueIncrementer.java  
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/opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/support/incrementer/DB2MainframeSequenceMaxValueIncrementer.java  
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 */
/**
 * Implement this interface when parameters need to be customized based
 * on the connection. We might need to do this to make use of proprietary
 * features, available only with a specific Connection type.
 *
 * @author Rod Johnson
 * @author Thomas Risberg
 * @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
 * @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
 */
/**
 * Create a Map of input parameters, keyed by name.
 * @param con a JDBC connection. This is useful (and the purpose of this interface)
 * if we need to do something RDBMS-specific with a proprietary Connection
 * implementation class. This class conceals such proprietary details. However,
 * it is best to avoid using such proprietary RDBMS features if possible.
 * @return a Map of input parameters, keyed by name (never {@code null})
 * @throws SQLException if an SQLException is encountered setting
 * parameter values (that is, there's no need to catch SQLException)
 */

```

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/opt/cola/permits/1135880147_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-
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- \* /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/datasource/lookup/SingleDataSourceLookup.java
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- /opt/cola/permits/1135880147\_1613624370.79/0/spring-jdbc-5-2-7-release-sources-2-jar/org/springframework/jdbc/datasource/SmartDataSource.java
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## 1.664 spring-cloud-consul-core

### 2.2.3.RELEASE

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*
/opt/cola/permits/1135892588_1613626871.52/0/spring-cloud-consul-core-2-2-3-release-sources-1-
jar/org/springframework/cloud/consul/ConditionalOnConsulEnabled.java
* /opt/cola/permits/1135892588_1613626871.52/0/spring-cloud-consul-core-2-2-3-release-sources-1-
jar/org/springframework/cloud/consul/RetryProperties.java
* /opt/cola/permits/1135892588_1613626871.52/0/spring-cloud-consul-core-2-2-3-release-sources-1-
```

jar/org/springframework/cloud/consul/model/SerfStatusEnum.java  
\* /opt/cola/permits/1135892588\_1613626871.52/0/spring-cloud-consul-core-2-2-3-release-sources-1-jar/org/springframework/cloud/consul/ConsulAutoConfiguration.java  
\* /opt/cola/permits/1135892588\_1613626871.52/0/spring-cloud-consul-core-2-2-3-release-sources-1-jar/org/springframework/cloud/consul/ConsulEndpoint.java  
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Found in path(s):  
\* /opt/cola/permits/1135892588\_1613626871.52/0/spring-cloud-consul-core-2-2-3-release-sources-1-jar/META-INF/maven/org.springframework.cloud/spring-cloud-consul-core/pom.xml

# 1.665 gremlin-core 3.4.5

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jar/com/squareup/javapoet/MethodSpec.java  
* /opt/cola/permits/1135892681_1613627013.6/0/javapoet-1-8-0-sources-1-  
jar/com/squareup/javapoet/ArrayTypeName.java
```



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\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/tags/EncodeForHTMLTag.java  
\*

/opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/tags/EncodeForHTMLAttributeTag.java  
No license file was found, but licenses were detected in source scan.

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Found in path(s):



\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/package.html

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\*

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\*

\* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>

\* @created 2007

\*/

Found in path(s):

\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/Log4JLogFactory.java

\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/AbstractAccessReferenceMap.java

\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/DefaultHTTPUtilities.java

\*

/opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/Log4JLogger.java

\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/Log4JLoggerFactory.java

\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/DefaultSecurityConfiguration.java

\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/Validator.java

\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codecs/OracleCodec.java

\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/crypto/ReferenceEncryptedProperties.java

\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/FileBasedAuthenticator.java

\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/RandomAccessReferenceMap.java

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*
* @author Matt Seil (mseil .at. owasp.org)
* @created 2017
*
* @author Jeff Williams (jeff.williams .at. aspectsecurity.com) <a
* href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
*/
```

Found in path(s):

```
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
jar/org/owasp/esapi/codecs/AbstractCharacterCodec.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
jar/org/owasp/esapi/codecs/AbstractIntegerCodec.java
No license file was found, but licenses were detected in source scan.
```

```
/**
```

```
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*
* @author Patrick Higgins
* @created 2010
*/
```

Found in path(s):

```
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/ExecuteResult.java
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```

```
/**
```

```
* OWASP Enterprise Security API (ESAPI)
*
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```

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\*  
\* @created 2018  
\*/

Found in path(s):

\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/logging/slf4j/Slf4JLogBridgeImpl.java  
\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/logging/cleaning/NewlineLogScrubber.java  
\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/logging/slf4j/Slf4JLogger.java  
\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/logging/slf4j/Slf4JLogBridge.java  
\*  
/opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/logging/cleaning/CompositeLogScrubber.java  
\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/logging/slf4j/Slf4JLogFactory.java  
\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/logging/cleaning/CodecLogScrubber.java  
\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/logging/slf4j/Slf4JLogLevelHandlers.java  
\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/logging/slf4j/Slf4JLogLevelHandler.java  
\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/logging/cleaning/LogScrubber.java

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\*  
\* @author Matt Seil (mseil .at. owasp.org)  
\* @updated 2017

```
*
* @author Jeff Williams (jeff.williams .at. aspectsecurity.com) <a
*   href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
*/
```

Found in path(s):

```
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
jar/org/owasp/esapi/codecs/PushbackString.java
```

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```
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* @created 2017
*
* @author Jeff Williams (jeff.williams .at. aspectsecurity.com) <a
*   href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
*/
```

Found in path(s):

```
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
jar/org/owasp/esapi/codecs/HTMLEntityCodec.java
```

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```
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*
*/
```

\*/

Found in path(s):

\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codecs/XMLEntityCodec.java

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\*

\* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>

\* @author kevin.w.wall@gmail.com

\* @created 2007

\*/

// Using cipher mode that supports \*both\* confidentiality \*and\* authenticity? If so, then

// If we are using a "preferred" cipher mode--i.e., one that supports \*both\* confidentiality and

Found in path(s):

\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/crypto/JavaEncryptor.java

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\*

\* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>

\* @author Jim Manico (jim@manico.net) <a href="http://www.manico.net">Manico.net</a>

\*

\* @created 2007

\*/

Found in path(s):

\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/DefaultValidator.java

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\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codecs/DB2Codec.java

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/\*\*

\* The method is ESAPI's Key Derivation Function (KDF) that computes a

\* derived key from the { @code keyDerivationKey } for either

\* encryption / decryption or for authentication.

\* <p>

\* <b>CAUTION:</b> If this algorithm for computing derived keys from the

\* key derivation key is <i>ever</i> changed, we risk breaking backward compatibility of being

\* able to decrypt data previously encrypted with earlier / different versions

\* of this method. Therefore, do not change this unless you are 100% certain that

\* what you are doing will NOT change either of the derived keys for

\* ANY "key derivation key" AT ALL!!!

\* <p>

\* <b>NOTE:</b> This method is generally not intended to be called separately.

\* It is used by ESAPI's reference crypto implementation class { @code JavaEncryptor }

\* and might be useful for someone implementing their own replacement class, but

\* generally it is not something that

is useful to application client code.

\*

\* @param keyDerivationKey A key used as an input to a key derivation function

\* to derive other keys. This is the key that generally

\* is created using some key generation mechanism such as

\* { @link CryptoHelper#generateSecretKey(String, int) }. The

\* "input" key from which the other keys are derived.

\* The derived key will have the same algorithm type

- \* as this key. This KDK cannot be null.
- \* @param keySize The cipher's key size (in bits) for the { @code keyDerivationKey }.
- \* Must have a minimum size of 56 bits and be an integral multiple of 8-bits.
- \* <b>Note:</b> The derived key will have the same size as this.
- \* @param purpose The purpose for the derived key. For the ESAPI reference implementation,
  - \* { @code JavaEncryptor }, this <i>must</i> be either the string "encryption" or
  - \* "authenticity",
 where "encryption" is used for creating a derived key to use
  - \* for confidentiality, and "authenticity" is used for creating a derived key to
  - \* use with a MAC to ensure message authenticity. However, since parameter serves
  - \* the same purpose as the "Label" in section 5.1 of NIST SP 800-108, it really can
  - \* be set to anything other than { @code null } or an empty string when called outside
  - \* of { @code JavaEncryptor }.
- \* @return The derived { @code SecretKey } to be used according
  - \* to the specified purpose.
- \* @throws NoSuchAlgorithmException The { @code keyDerivationKey } has an unsupported
  - \* encryption algorithm or no current JCE provider supports
  - \* "HmacSHA1".
- \* @throws EncryptionException If "UTF-8" is not supported as an encoding, then
  - \* this is thrown with the original { @code UnsupportedEncodingException }
  - \* as the cause. (NOTE: This should never happen as "UTF-8" is supposed to
  - \* be a common encoding supported by all Java implementations. Support
  - \* for it is usually in rt.jar.)
- \* @throws InvalidKeyException Likely indicates a coding error. Should not happen.
- \* @throws EncryptionException Throw for some precondition violations.
- \*/

Found in path(s):

\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/crypto/KeyDerivationFunction.java

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// version.

Found in path(s):

\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/crypto/CipherTextSerializer.java

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*
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
*/
/**
* An IntrusionException should be thrown anytime an error condition arises that is likely to be the result of an attack
* in progress. IntrusionExceptions are handled specially by the IntrusionDetector, which is equipped to respond by
* either specially logging the event, logging out the current user, or invalidating
* the current user's account.
* <P>
* Unlike other exceptions in the ESAPI, the IntrusionException is a RuntimeException so that it can be thrown from
* anywhere and will not require a lot of special exception handling.
*
* @author Jeff Williams (jeff.williams@aspectsecurity.com)
*/
```

Found in path(s):

```
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
jar/org/owasp/esapi/errors/IntrusionException.java
```

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```
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*
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @author kevin.w.wall@gmail.com
* @created 2007
*/
```

Found in path(s):

```
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/Encryptor.java
```

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```
/**
* OWASP Enterprise Security API (ESAPI)
*
```



```
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* @author Mike Fauzy <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
*/
/**
```

```
 * Return a { @code List } of strings of combined cipher modes that support
 * <b>both</b> confidentiality and authenticity. These would be preferred
 * cipher modes to use if your JCE provider supports them. If such a
 * cipher
mode is used, no explicit <i>separate</i> MAC is calculated as part of
 * the { @code CipherText } object upon encryption nor is any attempt made
 * to verify the same on decryption.
 * </p><p>
 * The list is taken from the comma-separated list of cipher modes specified
 * by the ESAPI property
 * { @code Encryptor.cipher_modes.combined_modes }.
 *
 * @return The parsed list of comma-separated cipher modes if the property
 * was specified in { @code ESAPI.properties }; otherwise the empty list is
 * returned.
*/
```

Found in path(s):

```
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
jar/org/owasp/esapi/SecurityConfiguration.java
```

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```
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 *
*/
```

```
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2009
*/
```

Found in path(s):

```
*/opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/PreparedString.java
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```

```
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 *
 * @author Arshan Dabirsiaghi <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2008
*/
```

Found in path(s):

```
*/opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/SafeFile.java
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```

```
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 *
 * @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
 * @created 2007
*/
/**
 * {@inheritDoc}
 *
 * The reference implementation sets the work directory, escapes the parameters as per the Codec in use,
 * and then executes the command without using concatenation. The exact, absolute, canonical path of each
```

\* executable must be listed as an approved executable in the ESAPI properties.

The executable must also

- \* exist on the disk. All failures will be logged, along with parameters if specified. Set the logParams to false if you are going to invoke this interface with confidential information.
- \*/

Found in path(s):

\*/opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/DefaultExecutor.java

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/\*\*

\* This methods adds a provider to the { @code SecurityManager }  
\* either by some generic name or by the class name.

\* </p><p>

\* The following generic JCE provider names are built-in:

\* <ul>

\* <li>SunJCE</li>

\* <li>IBMJCE [for WebSphere]</li>

\* <li>GnuCrypto [for use with GNU Compiler for Java, i.e., gcj]</li>

\* <li>BC [i.e., Bouncy Castle]</li>

\* <li>IAIK</li>

\* <li>CryptixCrypto (or Cryptix)

\* <li>ABA

\* </ul>

\* Note that neither Cryptix or ABA are actively maintained so  
\* it is recommended that you do not start using them for ESAPI  
\* unless your application already has a dependency on them. Furthermore,  
\* the Cryptix JCE jars likely will not work as the Cryptix code signing  
\* certificate has expired as of August 28, 2009. (This likely is true  
\* for ABA, but I can't even find a copy to download!). Lastly, the IAIK

\* provider is no longer offered as free, open source. It is not a  
\* commercial product. See { @link "http://jce.iaik.tugraz.at/" } for  
\* details. While some older versions were offered free, it is not clear  
\* whether the accompanying license still allows you to use it, and if  
\* it does, whether or not the code signing certificate used to sign  
\* their JCE jar(s) has expired are not. Therefore, if you are looking  
\* for a FOSS alternative to SunJCE, Bouncy Castle  
\* ({ @link "http://www.bouncycastle.org/" } is probably your best bet. The  
\* BC provider does support many the "combined cipher modes" that provide  
\* both confidentiality and authenticity. (See the { @code ESAPI.properties }  
\* property { @code Encryptor.cipher\_modes.combined\_modes } for details.)  
\* </p><p>  
\* For those working in the U.S. federal government, it should be noted  
\* that <i>none</i> of the providers listed here are considered validated  
\* by NIST's Cryptographic

Module Validation Program and are therefore

```
* <b>not</b> considered FIPS 140-2 compliant. There are a few approved
* JCE compatible Java libraries that are on NIST's CMVP list, but this
* list changes constantly so they are not listed here. For further details
* on NIST's CMVP, see
* { @link "http://csrc.nist.gov/groups/STM/cmvp/index.html" }.
* </p><p>
* Finally, if you wish to use some other JCE provider not recognized above,
* you must specify the provider's fully-qualified class name (which in
* turn must have a public, no argument constructor).
* </p><p>
* The application must be given the { @code SecurityPermission } with a
* value of { @code insertProvider.&lt;provider_name&gt;} (where
* &lt;provider_name&gt; is the name of the algorithm provider if
* a security manager is installed.
* </p>
*
* @param algProvider Name of the JCE algorithm provider. If the name
* contains
a ".", this is interpreted as the name
* of a { @code java.security.Provider } class name.
* @param pos The preference position (starting at 1) that the
* caller would like for this provider. If you wish
* for it to be installed as the <i>last</i> provider
* (as of the time of this call), set { @code pos } to -1.
* @return The actual preference position at which the provider was added,
* or -1 if the provider was not added because it is already
* installed.
* @exception NoSuchProviderException - thrown if the provider class
* could not be loaded or added to the { @code SecurityManager } or
* any other reason for failure.
*/
```

Found in path(s):

```
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
jar/org/owasp/esapi/crypto/SecurityProviderLoader.java
```

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

```
/**
```

```
* OWASP Enterprise Security API (ESAPI)
```

```
*
```

```
* This file is part of the Open Web Application Security Project (OWASP)
```

```
* Enterprise Security API (ESAPI) project. For details, please see
```

```
* <a href="http://www.owasp.org/index.php/ESAPI">http://www.owasp.org/index.php/ESAPI</a>.
```

```
*
```

```
* Copyright (c) 2007-2019 - The OWASP Foundation
```

```
*
```

```
* The ESAPI is published by OWASP under the BSD license. You should read and accept the
```

\* LICENSE before you use, modify, and/or redistribute this software.  
\*  
\* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>  
\* @created 2007  
\*/

Found in path(s):

\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/Encoder.java  
\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/EncryptedProperties.java  
\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/AccessController.java  
\*

/opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/Logger.java

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

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\*  
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\* Enterprise Security API (ESAPI) project. For details, please see  
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\*  
\* @author Mike Fauzy <a href="http://www.aspectsecurity.com">Aspect Security</a>  
\* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>  
\* @created 2007  
\*/

Found in path(s):

\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/reference/accesscontrol/FileBasedACRs.java

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

/\*\*

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```
* LICENSE before you use, modify, and/or redistribute this software.
*
* @author Chris Schmidt (chris.schmidt@owasp.org)
* @created 2010
*/
```

Found in path(s):

```
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
jar/org/owasp/esapi/crypto/CryptoDiscoverer.java
No license file was found, but licenses were detected in source scan.
```

```
/**
* OWASP Enterprise Security API (ESAPI)
*
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* Enterprise Security API (ESAPI) project. For details, please see
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*
* @author Pawan Singh (pawan.singh@owasp.org) <a href="http://www.owasp.org">OWASP</a>
* @created 2009
*/
```

Found in path(s):

```
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
jar/org/owasp/esapi/util/DefaultMessageUtil.java
No license file was found, but licenses were detected in source scan.
```

```
/**
* OWASP Enterprise Security API (ESAPI)
*
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* Enterprise Security API (ESAPI) project. For details, please see
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*
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
*/
```

Found in path(s):

```
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
jar/org/owasp/esapi/errors/EncryptionRuntimeException.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
jar/org/owasp/esapi/errors/EnterpriseSecurityRuntimeException.java
No license file was found, but licenses were detected in source scan.
```

<comments>Code License - New BSD License</comments>

Found in path(s):

```
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/META-
INF/maven/org.owasp.esapi/esapi/pom.xml
No license file was found, but licenses were detected in source scan.
```

/\*\*

```
* OWASP Enterprise Security API (ESAPI)
*
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* Enterprise Security API (ESAPI) project. For details, please see
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*
* @author Mike Fauzy <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @author Rogan Dawes <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2008
*/
```

Found in path(s):

```
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/ESAPI.java
No license file was found, but licenses were detected in source scan.
```

/\*\*

```
* OWASP Enterprise Security API (ESAPI)
*
* This file is part of the Open Web Application Security Project (OWASP)
* Enterprise Security API (ESAPI) project. For details, please see
* <a href="http://www.owasp.org/index.php/ESAPI">http://www.owasp.org/index.php/ESAPI</a>.
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*
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
```

\* @created February 6, 2009

\*/

Found in path(s):

\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/filters/ClickjackFilter.java

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

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\*

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\* LICENSE before you use, modify, and/or redistribute this software.

\*

\* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>

\* @created 2007

\*/

/\*\*

\* Executes a system command after checking that the executable exists and

\* escaping all the parameters to ensure that injection is impossible.

\* Implementations must change to the specified working

\* directory before invoking the command.

\*

\* @param executable

\* the command to execute

\* @param

params

\* the parameters of the command being executed

\* @param workdir

\* the working directory

\* @param codec

\* the codec to use to encode for the particular OS in use

\* @param logParams

\* use false if any parameters contains sensitive or confidential information

\*

\* @return the output of the command being run

\*

\* @throws ExecutorException

\* the service exception

\*/

Found in path(s):



\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/Executor.java  
No license file was found, but licenses were detected in source scan.

/\*\*

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\* Enterprise Security API (ESAPI) project. For details, please see  
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\*  
\* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>  
\* @created 2007  
\*/

Found in path(s):

\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/HTTPUtilities.java  
No license file was found, but licenses were detected in source scan.

/\*\*

\* The method is ESAPI's Key Derivation Function (KDF) that computes a  
\* derived key from the { @code keyDerivationKey } for either  
\* encryption / decryption or for authentication.  
\* <p>  
\* <b>CAUTION:</b> If this algorithm for computing derived keys from the  
\* key derivation key is <i>ever</i> changed, we risk breaking backward compatibility of being  
\* able to decrypt data previously encrypted with earlier / different versions  
\* of this method. Therefore, do not change this unless you are 100% certain that  
\* what you are doing will NOT change either of the derived keys for  
\* ANY "key derivation key" AT ALL!!!  
\* <p>  
\* <b>NOTE:</b> This method is generally not intended to be called separately.  
\* It is used by ESAPI's reference crypto implementation class { @code JavaEncryptor }  
\* and might be useful for someone implementing their own replacement class, but  
\* generally it is not something that  
is useful to application client code.  
\*  
\* @param keyDerivationKey A key used as an input to a key derivation function  
\* to derive other keys. This is the key that generally  
\* is created using some key generation mechanism such as  
\* { @link #generateSecretKey(String, int) }. The  
\* "input" key from which the other keys are derived.  
\* The derived key will have the same algorithm type  
\* as this key.

```

* @param keySize The cipher's key size (in bits) for the {@code keyDerivationKey}.
*   Must have a minimum size of 56 bits and be an integral multiple of 8-bits.
*   <b>Note:</b> The derived key will have the same size as this.
* @param purpose The purpose for the derived key. Must be either the
*   string "encryption" or "authenticity". Use "encryption" for
*   creating a derived key to use for confidentiality, and
"authenticity"
*   for a derived key to use with a MAC to ensure message authenticity.
* @return The derived {@code SecretKey} to be used according
*   to the specified purpose. Note that this serves the same purpose
*   as "label" in section 5.1 of NIST SP 800-108.
* @throws NoSuchAlgorithmException The {@code keyDerivationKey} has an unsupported
*   encryption algorithm or no current JCE provider supports
*   "HmacSHA1".
* @throws EncryptionException If "UTF-8" is not supported as an encoding, then
*   this is thrown with the original {@code UnsupportedEncodingException}
*   as the cause. (NOTE: This should never happen as "UTF-8" is supposed to
*   be a common encoding supported by all Java implementations. Support
*   for it is usually in rt.jar.)
* @throws InvalidKeyException Likely indicates a coding error. Should not happen.
* @throws EncryptionException Throw for some precondition violations.

* @deprecated Use {@code KeyDerivationFunction} instead. This method will be removed as of
*   ESAPI release 2.3 so if you are using this, please change your code.
*/
/**
* Return true if specified cipher mode is one of those specified in the
* {@code ESAPI.properties} file that supports both confidentiality
* <b>and</b> authenticity (i.e., a "combined cipher mode" as NIST refers
* to it).
* @param cipherMode The specified cipher mode to be used for the encryption
*   or decryption operation.
* @return true if the specified cipher mode is in the comma-separated list
*   of cipher modes supporting both confidentiality and authenticity;
*   otherwise false.
* @see org.owasp.esapi.SecurityConfiguration#getCombinedCipherModes()
*/

```

Found in path(s):

```

* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
jar/org/owasp/esapi/crypto/CryptoHelper.java

```

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

```

/**

```

```

* OWASP Enterprise Security API (ESAPI)

```

```

*

```

```

* This file is part of the Open Web Application Security Project (OWASP)

```

```

* Enterprise Security API (ESAPI) project. For details, please see

```

```
* <a href="http://www.owasp.org/index.php/ESAPI">http://www.owasp.org/index.php/ESAPI</a>.
*
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*
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
*
* @created 2007
*/
```

Found in path(s):

```
*/opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
jar/org/owasp/esapi/ValidationErrorList.java
```

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

```
/**
```

```
* OWASP Enterprise Security API (ESAPI)
*
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* Enterprise Security API (ESAPI) project. For details, please see
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*
* @author Matt Seil (mseil .at. owasp.org)
* @created 2017
*/
```

Found in path(s):

```
*/opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
jar/org/owasp/esapi/codecs/AbstractCodec.java
```

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

```
/**
```

```
* <p>Encodes and decodes to and from Base64 notation.</p>
* <p>Homepage: <a href="http://iharder.net/base64">http://iharder.net/base64</a>
* (based on version 2.2.2).</p>
*
* <p>The <tt>options</tt> parameter, which appears in a few places, is used to pass
* several pieces of information to the encoder. In the "higher level" methods such as
* encodeBytes( bytes, options ) the options parameter can be used to indicate such
* things as first gzipping the bytes before encoding them, not inserting linefeeds
* (though that breaks strict Base64 compatibility), and encoding using the URL-safe
```

\* and Ordered dialects.</p>

\*

\* <p>The constants defined in Base64 can be OR-ed together to combine options, so you

\* might make a call like this:</p>

\*

```
* <code>String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DONT_BREAK_LINES
);</code>
```

\*

\* <p>to compress the data before encoding it and then making  
the output have no newline characters.</p>

\*

\*

\* <p>

\* Original change Log:

\* </p>

\* <ul>

\* <li>v2.2.2 - Fixed encodeFileToFile and decodeFileToFile to use the

\* Base64.InputStream class to encode and decode on the fly which uses

\* less memory than encoding/decoding an entire file into memory before writing.</li>

\* <li>v2.2.1 - Fixed bug using URL\_SAFE and ORDERED encodings. Fixed bug

\* when using very small files (~< 40 bytes).</li>

\* <li>v2.2 - Added some helper methods for encoding/decoding directly from

\* one file to the next. Also added a main() method to support command line

\* encoding/decoding from one file to the next. Also added these Base64 dialects:

\* <ol>

\* <li>The default is RFC3548 format.</li>

\* <li>Calling Base64.setFormat(Base64.BASE64\_FORMAT.URLSAFE\_FORMAT) generates

\* URL and file name friendly format as described in Section 4 of RFC3548.

\* <http://www.faqs.org/rfcs/rfc3548.html></li>

\* <li>Calling Base64.setFormat(Base64.BASE64\_FORMAT.ORDERED\_FORMAT)

generates

\* URL and file name friendly format that preserves lexical ordering as described

\* in <http://www.faqs.org/qa/rfcc-1940.html></li>

\* </ol>

\* Special thanks to Jim Kellerman at <a href="http://www.powerset.com/">http://www.powerset.com/</a>

\* for contributing the new Base64 dialects.

\* </li>

\*

\* <li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added

\* some convenience methods for reading and writing to and from files.</li>

\* <li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems

\* with other encodings (like EBCDIC).</li>

\* <li>v2.0.1 - Fixed an error when decoding a single byte, that is, when the

\* encoded data was a single byte.</li>

\* <li>v2.0 - I got rid of methods that used booleans to set options.

\* Now everything is more consolidated and cleaner. The code now detects

\* when data that's being decoded is gzip-compressed and will decompress it

\* automatically.

Generally things are cleaner. You'll probably have to

- \* change some method calls that you were making to support the new
- \* options format (`<tt>int</tt>`s that you "OR" together).
- \* `<li>v1.5.1 - Fixed bug when decompressing and decoding to a`
- \* `byte[]` using `<tt>decode( String s, boolean gzipCompressed )</tt>`.
- \* Added the ability to "suspend" encoding in the Output Stream so
- \* you can turn on and off the encoding if you need to embed base64
- \* data in an otherwise "normal" stream (like an XML file).
- \* `<li>v1.5 - Output stream passes on flush() command but doesn't do anything itself.`
- \* This helps when using GZIP streams.
- \* Added the ability to GZip-compress objects before encoding them.
- \* `<li>v1.4 - Added helper methods to read/write files.</li>`
- \* `<li>v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.</li>`
- \* `<li>v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream`
- \* where last buffer
- being read, if not completely full, was not returned.
- \* `<li>v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>`
- \* `<li>v1.3.3 - Fixed I/O streams which were totally messed up.</li>`

\* `</ul>`

\*

\* `<p>`

- \* I am placing this code in the Public Domain. Do with it as you will.
- \* This software comes with no guarantees or warranties but with
- \* plenty of well-wishing instead!
- \* Please visit <http://iharder.net/base64>
- \* periodically to check for updates or to contribute improvements.

\* `</p>`

\*

- \* @author Robert Harder
- \* @author rob@iharder.net
- \* @version 2.2.2

\*/

Found in path(s):

- \* `/opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codecs/Base64.java`
- No license file was found, but licenses were detected in source scan.

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- \*
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```
*
* @author Rogan Dawes<a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2008
*/
```

Found in path(s):

```
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/LogFactory.java
No license file was found, but licenses were detected in source scan.
```

```
/**
* OWASP Enterprise Security API (ESAPI)
*
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* Enterprise Security API (ESAPI) project. For details, please see
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*
* @created 2010
*/
// Because attribute values may be confidential, we don't want to log them!
```

Found in path(s):

```
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
jar/org/owasp/esapi/crypto/CryptoToken.java
No license file was found, but licenses were detected in source scan.
```

```
/**
* OWASP Enterprise Security API (ESAPI) This file is part of the Open Web
* Application Security Project (OWASP) Enterprise Security API (ESAPI) project.
* For details, please see <a
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*
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect
* Security</a>
* @created 2007
*/
```

Found in path(s):

```
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
jar/org/owasp/esapi/filters/SecurityWrapperRequest.java
* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-
```

jar/org/owasp/esapi/filters/SecurityWrapperResponse.java

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\* @author Arshan Dabirsiaghi <a href="http://www.aspectsecurity.com">Aspect Security</a>

\* @created 2009

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\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/MustMatchRule.java

\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/actions/DefaultAction.java

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\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/HTTPMethodRule.java

\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/ConfigurationException.java

\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/configuration/AppGuardianConfiguration.java

\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/internal/Parameter.java

\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/AddHTTPOnlyFlagRule.java

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* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/DetectOutboundContentRule.java
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* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/ESAPIWebApplicationFirewallFilter.java
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* /opt/cola/permits/1135894973_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/waf/rules/GeneralAttackSignatureRule.java
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* OWASP Enterprise Security API (ESAPI)
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\* @created 2007  
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\* @author Matt Seil (mseil .at. owasp.org)  
\* @created 2017  
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\* /opt/cola/permits/1135894973\_1613626862.75/0/esapi-2-2-0-0-sources-3-jar/org/owasp/esapi/codecs/PushbackSequence.java

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# 1.676 jakarta-websocket-api 1.1.2

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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

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\* @since 5.0.6

\*/

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\* /opt/cola/permits/1135923484\_1613633273.26/0/spring-test-5-2-12-release-sources-jar/org/springframework/mock/web/MockBodyContent.java

\* /opt/cola/permits/1135923484\_1613633273.26/0/spring-test-5-2-12-release-sources-jar/org/springframework/test/context/transaction/TransactionContextHolder.java

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jar/org/springframework/mock/web/MockJspWriter.java  
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jar/org/springframework/test/context/support/AbstractDirtyContextTestExecutionListener.java

# 1.678 opensaml-java 2.6.6

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\* /opt/cola/permits/1001433984\_1607387076.97/0/opensaml-2-6-6-sources-jar/org/opensaml/xacml/policy/impl/ActionMatchTypeMarshaller.java  
\* /opt/cola/permits/1001433984\_1607387076.97/0/opensaml-2-6-6-sources-

jar/org/opensaml/saml2/core/validator/ResponseSchemaValidator.java  
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 jar/org/opensaml/saml1/core/SubjectQuery.java  
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 jar/org/opensaml/saml2/core/impl/IDPListUnmarshaller.java  
 \* /opt/cola/permits/1001433984\_1607387076.97/0/opensaml-2-6-6-sources-





```
flag.  
 * @return true iff the encoder cannot provide confidentiality  
 */  
/**  
 * Sets confidentiality override flag.  
 * @param flag override flag  
 */
```

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```
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jar/org/opensaml/saml2/binding/encoding/HandlerChainAwareHTTPSOAP11Encoder.java  
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SAML V2.0 Metadata Extensions for Registration and Publication Information Version 1.0  
Committee Specification 01  
03 April 2012  
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```

## 1.679 open-ws 1.5.6

### 1.679.1 Available under license :

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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
 * See the License for the specific language governing permissions and  
 * limitations under the License.  
 */  
/**  
 * Gets whether the transport represents a confidential connection (e.g. an SSL  
 connection).  
 */
```

```
* @return whether the transport represents a confidential connection
*/
/**
 * Sets whether the transport represents a confidential connection.
 *
 * @param isConfidential whether the transport represents a confidential connection
 */
```

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```
*/opt/cola/permits/1109021854_1610153068.13/0/openws-1-5-6-sources-
jar/org/opensaml/ws/transport/Transport.java
```

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utility-1.0.xsd
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secext-1.0.xsd
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\* /opt/cola/permits/1109021854\_1610153068.13/0/openws-1-5-6-sources-jar/org/opensaml/ws/wstrust/impl/AllowPostdatingUnmarshaller.java  
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\* /opt/cola/permits/1109021854\_1610153068.13/0/openws-1-5-6-sources-jar/org/opensaml/ws/security/provider/StaticSecurityPolicyResolver.java  
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\* /opt/cola/permits/1109021854\_1610153068.13/0/openws-1-5-6-sources-jar/org/opensaml/ws/wstrust/impl/ParticipantTypeMarshaller.java  
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\* /opt/cola/permits/1109021854\_1610153068.13/0/openws-1-5-6-sources-jar/org/opensaml/ws/soap/soap11/impl/FaultActorImpl.java  
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 \* /opt/cola/permits/1109021854\_1610153068.13/0/openws-1-5-6-sources-  
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 \* /opt/cola/permits/1109021854\_1610153068.13/0/openws-1-5-6-sources-  
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 \* /opt/cola/permits/1109021854\_1610153068.13/0/openws-1-5-6-sources-  
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 \*  
 /opt/cola/permits/1109021854\_1610153068.13/0/openws-1-5-6-sources-jar/org/opensaml/ws/wstrust/impl/ValidateTargetImpl.java  
 \* /opt/cola/permits/1109021854\_1610153068.13/0/openws-1-5-6-sources-jar/org/opensaml/ws/wssecurity/impl/TransformationParametersMarshaller.java  
 \* /opt/cola/permits/1109021854\_1610153068.13/0/openws-1-5-6-sources-jar/org/opensaml/ws/wstrust/impl/EncryptWithBuilder.java  
 \* /opt/cola/permits/1109021854\_1610153068.13/0/openws-1-5-6-sources-jar/org/opensaml/ws/soap/client/http/HttpClientBuilder.java  
 \* /opt/cola/permits/1109021854\_1610153068.13/0/openws-1-5-6-sources-jar/org/opensaml/ws/wstrust/impl/EncryptionBuilder.java  
 \* /opt/cola/permits/1109021854\_1610153068.13/0/openws-1-5-6-sources-jar/org/opensaml/ws/wspolicy/impl/PolicyUnmarshaller.java  
 \* /opt/cola/permits/1109021854\_1610153068.13/0/openws-1-5-6-sources-jar/org/opensaml/ws/wstrust/impl/CancelTargetUnmarshaller.java  
 \* /opt/cola/permits/1109021854\_1610153068.13/0/openws-1-5-6-sources-jar/org/opensaml/ws/security/SecurityPolicyRule.java  
 \*  
 /opt/cola/permits/1109021854\_1610153068.13/0/openws-1-5-6-sources-jar/org/opensaml/ws/transport/http/HTTPTransport.java  
 \* /opt/cola/permits/1109021854\_1610153068.13/0/openws-1-5-6-sources-jar/org/opensaml/util/resource/ResourceFilter.java  
 \* /opt/cola/permits/1109021854\_1610153068.13/0/openws-1-5-6-sources-jar/org/opensaml/ws/wsfed/impl/EndPointReferenceMarshaller.java  
 \* /opt/cola/permits/1109021854\_1610153068.13/0/openws-1-5-6-sources-

```
jar/org/opensaml/ws/wstrust/impl/KeyExchangeTokenBuilder.java
* /opt/cola/permits/1109021854_1610153068.13/0/openws-1-5-6-sources-
jar/org/opensaml/ws/wsaddressing/ProblemAction.java
* /opt/cola/permits/1109021854_1610153068.13/0/openws-1-5-6-sources-
jar/org/opensaml/ws/transport/http/HTTPInTransport.java
* /opt/cola/permits/1109021854_1610153068.13/0/openws-1-5-6-sources-
jar/org/opensaml/ws/wsaddressing/impl/FromImpl.java
* /opt/cola/permits/1109021854_1610153068.13/0/openws-1-5-6-sources-
jar/org/opensaml/ws/wsaddressing/impl/AddressImpl.java
*
/opt/cola/permits/1109021854_1610153068.13/0/openws-1-5-6-sources-
jar/org/opensaml/ws/wstrust/impl/AllowPostdatingImpl.java
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*/
```

```
/**
 * Indicates whether this encoder, given the current message context, provides
 * end-to-end message confidentiality.
 *
 * @param messageContext the current message context
 *
 * @return true if the encoder provides end-to-end message confidentiality, false if not
 *
 * @throws MessageEncodingException thrown if the encoder encounter an error while attempt to evaluate its
 * ability
 *
 * to provide message confidentiality.
 */
```

```
Found in path(s):
* /opt/cola/permits/1109021854_1610153068.13/0/openws-1-5-6-sources-
jar/org/opensaml/ws/message/encoder/MessageEncoder.java
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 */
/** Confidential flag. */
```

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```

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<p>

XMLObject interfaces for WS-Security 2004 elements.

</p>

<p>

The OASIS [Web Services Security: SOAP Message Security 1.1 \(WS-Security 2004\)](http://docs.oasis-open.org/wss/v1.1/wss-v1.1-spec-os-SOAPMessageSecurity.pdf) specification describes enhancements to SOAP messaging to provide message integrity and confidentiality. This specification also provides a general-purpose mechanism for associating security tokens with message content.

</p>

<p>

The security token profiles currently supported are:

<ul>

<li><a target="wss-oasis" href="http://docs.oasis-open.org/wss/v1.1/wss-v1.1-spec-os-UsernameTokenProfile.pdf">Web Services Security UsernameToken Profile 1.1</a></li>

<li><a target="wss-oasis" href="http://docs.oasis-open.org/wss/v1.1/wss-v1.1-spec-os-SAMLTokenProfile.pdf">Web Services Security: SAML Token Profile 1.1</a></li>

<li><a target="wss-oasis" href="http://docs.oasis-open.org/wss/v1.1/wss-v1.1-spec-os-x509TokenProfile.pdf">Web Services Security X.509 Certificate Token Profile 1.1</a></li>

<li><a target="wss-oasis" href="http://docs.oasis-open.org/wss/v1.1/wss-v1.1-spec-os-KerberosTokenProfile.pdf">Web Services Security Kerberos Token Profile 1.1</a></li>

</ul>

</p>

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Found in path(s):

\* /opt/cola/permits/1109021854\_1610153068.13/0/openws-1-5-6-sources-jar/org/opensaml/ws/wssecurity/package.html

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## 1.681 joda-time 2.10.5

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# 1.684 spring-security-jwt 2.1.1

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\* /opt/cola/permits/1136061479\_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-jar/META-INF/maven/com.mercateo.spring/spring-security-jwt/pom.xml

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* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-
jar/com/mercateo/spring/security/jwt/token/config/JWTConfig.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-
jar/com/mercateo/spring/security/jwt/token/exception/MissingSignatureException.java
*
/opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-
jar/com/mercateo/spring/security/jwt/token/exception/InvalidTokenException.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-
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jar/com/mercateo/spring/security/jwt/security/_JWTAuthority.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-
jar/com/mercateo/spring/security/jwt/security/JWTAuthenticationTokenFilter.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-
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* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-
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* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-
jar/com/mercateo/spring/security/jwt/token/extractor/ClaimsValidator.java
*
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* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-
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* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-
jar/com/mercateo/spring/security/jwt/token/keyset/JWTKeyset.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-
jar/com/mercateo/spring/security/jwt/token/extractor/HierarchicalClaimsExtractor.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-
jar/com/mercateo/spring/security/jwt/token/extractor/ClaimExtractor.java
*
/opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-
jar/com/mercateo/spring/security/jwt/token/verifier/JWTVerifier.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-
jar/com/mercateo/spring/security/jwt/security/JWTAuthenticationProvider.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-
jar/com/mercateo/spring/security/jwt/token/verifier/TokenVerifier.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-
jar/com/mercateo/spring/security/jwt/token/extractor/InnerClaimsWrapper.java

```

```

* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-
jar/com/mercateo/spring/security/jwt/token/claim/_JWTClaims.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-
jar/com/mercateo/spring/security/jwt/security/config/_JWTSecurityConfig.java
*
/opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-
jar/com/mercateo/spring/security/jwt/token/exception/MissingClaimException.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-
jar/com/mercateo/spring/security/jwt/token/claim/_JWTClaim.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-
jar/com/mercateo/spring/security/jwt/security/JWTAuthenticationSuccessHandler.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-
jar/com/mercateo/spring/security/jwt/token/verifier/JWTVerifierFactory.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-
jar/com/mercateo/spring/security/jwt/token/keyset/Auth0JWTKeyset.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-
jar/com/mercateo/spring/security/jwt/security/JWTAuthenticationEntryPoint.java
* /opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-
jar/com/mercateo/spring/security/jwt/data/ClaimName.java
*
/opt/cola/permits/1136061479_1613670284.23/0/spring-security-jwt-2-1-1-sources-1-
jar/com/mercateo/spring/security/jwt/token/extractor/ValidatingHierarchicalClaimsExtractor.java

```

# 1.685 groovy-json 2.5.7

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#
org.apache.groovy.json.DefaultFastStringServiceFactory

```

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\* /opt/cola/permits/1136061461\_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/META-INF/services/org.apache.groovy.json.FastStringServiceFactory

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\* /opt/cola/permits/1136061461\_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/internal/Sys.java

\*

/opt/cola/permits/1136061461\_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/DefaultFastStringService.java

\* /opt/cola/permits/1136061461\_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/internal/Chr.java

\* /opt/cola/permits/1136061461\_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/internal/FastStringUtils.java

\* /opt/cola/permits/1136061461\_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/internal/ValueMapImpl.java

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\* /opt/cola/permits/1136061461\_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/FastStringServiceFactory.java

\* /opt/cola/permits/1136061461\_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/internal/JsonStringDecoder.java

\* /opt/cola/permits/1136061461\_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/internal/Type.java

\*

/opt/cola/permits/1136061461\_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/internal/IO.java

\* /opt/cola/permits/1136061461\_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/internal/LazyMap.java  
 \* /opt/cola/permits/1136061461\_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/groovy/json/JsonToken.java  
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 \* /opt/cola/permits/1136061461\_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/groovy/json/JsonOutput.java  
 \* /opt/cola/permits/1136061461\_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/internal/BaseJsonParser.java  
 \* /opt/cola/permits/1136061461\_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/internal/Cache.java  
 \* /opt/cola/permits/1136061461\_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/internal/CharBuf.java  
 \* /opt/cola/permits/1136061461\_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/groovy/json/JsonTokenType.java  
 \* /opt/cola/permits/1136061461\_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/internal/JsonParserUsingCharacterSource.java  
 \* /opt/cola/permits/1136061461\_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/groovy/json/JsonSlurperClassic.java  
 \* /opt/cola/permits/1136061461\_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/internal/CharScanner.java  
 \*  
 /opt/cola/permits/1136061461\_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/org/apache/groovy/json/internal/ValueContainer.java  
 \* /opt/cola/permits/1136061461\_1613670286.27/0/groovy-json-2-5-7-sources-1-

```
jar/org/apache/groovy/json/internal/CacheType.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-
jar/groovy/json/StringEscapeUtils.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-
jar/org/apache/groovy/json/internal/JsonParserCharArray.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/groovy/json/JsonLexer.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-
jar/org/apache/groovy/json/internal/MapItemValue.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-
jar/org/apache/groovy/json/internal/ByteScanner.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-
jar/org/apache/groovy/json/internal/ReaderCharacterSource.java
*
/opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/groovy/json/JsonException.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-
jar/org/apache/groovy/json/internal/ValueMap.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-
jar/groovy/json/JsonParserType.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-
jar/org/apache/groovy/json/internal/Exceptions.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-jar/groovy/json/JsonParser.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-
jar/org/apache/groovy/json/internal/ValueList.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-
jar/groovy/json/StreamingJsonBuilder.java
* /opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-
jar/org/apache/groovy/json/internal/LazyValueMap.java
*
/opt/cola/permits/1136061461_1613670286.27/0/groovy-json-2-5-7-sources-1-
jar/org/apache/groovy/json/internal/ArrayUtils.java
```

## 1.686 txw2 2.3.3

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 jar/org/springframework/security/config/web/servlet/headers/ContentTypeOptionsDsl.kt  
 \* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-  
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\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/provisioning/UserDetailsManagerResourceFactoryBean.java

\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/core/userdetails/UserDetailsMapFactoryBean.java

\*

/opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/web/server/SecurityWebFiltersOrder.java

\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/web/server/AbstractServerWebExchangeMatcherRegistry.java

\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/web/configurers/oauth2/client/ImplicitGrantConfigurer.java

\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/method/configuration/ReactiveMethodSecuritySelector.java

\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/authentication/configuration/GlobalAuthenticationConfigurerAdapter.java

\*

/opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/web/reactive/EnableWebFluxSecurity.java

\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/core/userdetails/ReactiveUserDetailsServiceResourceFactoryBean.java

\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/method/configuration/EnableReactiveMethodSecurity.java  
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\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/http/GrantedAuthorityDefaultsParserUtils.java

\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/http/HandlerMappingIntrospectorFactoryBean.java

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\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/web/configurers/PortMapperConfigurer.java

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/opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/web/configurers/ChannelSecurityConfigurer.java  
\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/web/builders/FilterComparator.java  
\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/web/WebSecurityConfigurer.java  
\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/web/configurers/AbstractConfigAttributeRequestMatcherRegistry.java  
\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/authentication/configurers/userdetails/UserDetailsAwareConfigurer.java  
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/opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/web/configurers/AnonymousConfigurer.java  
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\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/AbstractSecurityBuilder.java  
\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/web/configurers/FormLoginConfigurer.java  
\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/authentication/builders/AuthenticationManagerBuilder.java  
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\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/web/configurers/AbstractInterceptUrlConfigurer.java  
\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/web/HttpSecurityBuilder.java  
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/opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/authentication/configuration/EnableGlobalAuthentication.java  
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\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/authentication/configurers/provisioning/JdbcUserDetailsManagerConfigurer.java  
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/opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/SecurityBuilder.java  
\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/AbstractConfiguredSecurityBuilder.java  
\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/web/servlet/configuration/EnableWebMvcSecurity.java  
\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/authentication/ProviderManagerBuilder.java  
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/opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/SecurityConfigurer.java  
\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/web/configurers/AbstractHttpConfigurer.java  
\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/authentication/configurers/userdetails/DaoAuthenticationConfigurer.java  
\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/AlreadyBuiltException.java  
\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/web/configurers/PermitAllSupport.java  
\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/SecurityConfigurerAdapter.java  
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/opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/ObjectPostProcessor.java  
\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/web/configurers/RequestCacheConfigurer.java  
\* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/authentication/configurers/userdetails/UserDetailsServiceConfigurer.java

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- \* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/http/FilterChainBeanDefinitionParser.java
- \* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/BeanIds.java
- \*
- /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/ldap/ContextSourceSettingPostProcessor.java
- \* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/authentication/package-info.java
- \* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/method/package-info.java
- \* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/http/UserDetailsServiceFactoryBean.java
- \* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/ldap/LdapUserServiceBeanDefinitionParser.java
- \* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/http/FilterChainMapBeanDefinitionDecorator.java
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- /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/authentication/AuthenticationProviderBeanDefinitionParser.java
- \* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/http/SessionCreationPolicy.java
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- \* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/core/GrantedAuthorityDefaults.java
- \* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/method/MethodSecurityMetadataSourceBeanDefinitionParser.java
- \*
- /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/annotation/web/messaging/MessageSecurityMetadataSourceRegistry.java
- \* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/package-info.java
- \* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/authentication/AbstractUserDetailsServiceBeanDefinitionParser.java
- \* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-jar/org/springframework/security/config/authentication/UserServiceBeanDefinitionParser.java
- \* /opt/cola/permits/1136246070\_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-

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jar/org/springframework/security/config/http/MatcherType.java
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jar/org/springframework/security/config/method/InterceptMethodsBeanDefinitionDecorator.java
* /opt/cola/permits/1136246070_1613716108.22/0/spring-security-config-5-3-3-release-sources-1-
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jar/org/springframework/security/config/authentication/JdbcUserServiceBeanDefinitionParser.java

```

# 1.692 slf4j 1.7.30

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\* /opt/cola/permits/1134810204\_1613424006.61/0/slf4j-api-1-7-30-sources-jar/org/slf4j/spi/MDCAdapter.java  
\* /opt/cola/permits/1134810204\_1613424006.61/0/slf4j-api-1-7-30-sources-jar/org/slf4j/MarkerFactory.java  
\* /opt/cola/permits/1134810204\_1613424006.61/0/slf4j-api-1-7-30-sources-jar/org/slf4j/helpers/NOILoggerFactory.java  
\* /opt/cola/permits/1134810204\_1613424006.61/0/slf4j-api-1-7-30-sources-jar/org/slf4j/impl/StaticMDCBinder.java  
\* /opt/cola/permits/1134810204\_1613424006.61/0/slf4j-api-1-7-30-sources-jar/org/slf4j/spi/LoggerFactoryBinder.java  
\* /opt/cola/permits/1134810204\_1613424006.61/0/slf4j-api-1-7-30-sources-jar/org/slf4j/helpers/SubstituteLoggerFactory.java  
\* /opt/cola/permits/1134810204\_1613424006.61/0/slf4j-api-1-7-30-sources-jar/org/slf4j/helpers/BasicMarkerFactory.java  
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\* /opt/cola/permits/1134810204\_1613424006.61/0/slf4j-api-1-7-30-sources-jar/org/slf4j/Logger.java  
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\* /opt/cola/permits/1134810204\_1613424006.61/0/slf4j-api-1-7-30-sources-jar/org/slf4j/spi/LocationAwareLogger.java  
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\*  
/opt/cola/permits/1134810204\_1613424006.61/0/slf4j-api-1-7-30-sources-jar/org/slf4j/helpers/SubstituteLogger.java  
\* /opt/cola/permits/1134810204\_1613424006.61/0/slf4j-api-1-7-30-sources-jar/org/slf4j/MDC.java  
\* /opt/cola/permits/1134810204\_1613424006.61/0/slf4j-api-1-7-30-sources-jar/org/slf4j/helpers/BasicMDCAdapter.java  
\* /opt/cola/permits/1134810204\_1613424006.61/0/slf4j-api-1-7-30-sources-jar/org/slf4j/impl/StaticLoggerBinder.java  
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\* /opt/cola/permits/1134810204\_1613424006.61/0/slf4j-api-1-7-30-sources-jar/org/slf4j/Marker.java  
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\* /opt/cola/permits/1134810204\_1613424006.61/0/slf4j-api-1-7-30-sources-jar/org/slf4j/helpers/FormattingTuple.java  
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/opt/cola/permits/1134810204\_1613424006.61/0/slf4j-api-1-7-30-sources-jar/org/slf4j/helpers/Util.java  
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# 1.693 kafka-clients 2.5.0

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*/
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* For internal use only.
*
* @author
  Luke Taylor
* @since 3.0
* @deprecated Use java.util.Base64
*/
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\*  
/opt/cola/permits/1136317425\_1613738788.79/0/spring-security-crypto-5-2-8-release-sources-1-jar/org/springframework/security/crypto/encrypt/BouncyCastleAesCbcBytesEncryptor.java  
\* /opt/cola/permits/1136317425\_1613738788.79/0/spring-security-crypto-5-2-8-release-sources-1-jar/org/springframework/security/crypto/password/PasswordEncoder.java  
\* /opt/cola/permits/1136317425\_1613738788.79/0/spring-security-crypto-5-2-8-release-sources-1-jar/org/springframework/security/crypto/keygen/HexEncodingStringKeyGenerator.java  
\* /opt/cola/permits/1136317425\_1613738788.79/0/spring-security-crypto-5-2-8-release-sources-1-jar/org/springframework/security/crypto/password/NoOpPasswordEncoder.java  
\* /opt/cola/permits/1136317425\_1613738788.79/0/spring-security-crypto-5-2-8-release-sources-1-jar/org/springframework/security/crypto/encrypt/TextEncryptor.java  
\* /opt/cola/permits/1136317425\_1613738788.79/0/spring-security-crypto-5-2-8-release-sources-1-jar/org/springframework/security/crypto/encrypt/HexEncodingTextEncryptor.java  
\*  
/opt/cola/permits/1136317425\_1613738788.79/0/spring-security-crypto-5-2-8-release-sources-1-jar/org/springframework/security/crypto/encrypt/CipherUtils.java  
\* /opt/cola/permits/1136317425\_1613738788.79/0/spring-security-crypto-5-2-8-release-sources-1-jar/org/springframework/security/crypto/keygen/SecureRandomBytesKeyGenerator.java  
\* /opt/cola/permits/1136317425\_1613738788.79/0/spring-security-crypto-5-2-8-release-sources-1-jar/org/springframework/security/crypto/password/StandardPasswordEncoder.java  
\* /opt/cola/permits/1136317425\_1613738788.79/0/spring-security-crypto-5-2-8-release-sources-1-jar/org/springframework/security/crypto/encrypt/BytesEncryptor.java  
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Found in path(s):

\* /opt/cola/permits/1136317425\_1613738788.79/0/spring-security-crypto-5-2-8-release-sources-1-jar/org/springframework/security/crypto/bcrypt/BCryptPasswordEncoder.java

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\* /opt/cola/permits/1136317425\_1613738788.79/0/spring-security-crypto-5-2-8-release-sources-1-jar/org/springframework/security/crypto/encrypt/Encryptors.java

# 1.697 joda-convert 2.2.1

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## 1.698 bcprov-ext-jdk15on 1.64

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\* /opt/cola/permits/1136414823\_1613765312.21/0/bcprov-ext-jdk15on-1-64-sources-1-jar/org/bouncycastle/pqc/crypto/gmss/GMSSPrivateKeyParameters.java

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\* Poly1305 message authentication code, designed by D. J. Bernstein.

\* <p>

\* Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key

\* consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106

\* effective key bits) used in the authenticator.

\* <p>

\* The polynomial calculation in this implementation is adapted from the public domain <a

\* href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled</a> C implementation

\* by Andrew M (@floodyberry).

\* @see Poly1305KeyGenerator

\*/

Found in path(s):

\* /opt/cola/permits/1136414823\_1613765312.21/0/bcprov-ext-jdk15on-1-64-sources-1-jar/org/bouncycastle/crypto/mac/Poly1305.java

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\* SPHINCS-256 signer.

\* <p>

\* This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being  
\* the digests used

\* for message hashing and tree construction are now configurable (within limits...) and that the implementation  
\* produces

\* detached signatures.

```
* </p>
* <p>
* The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of
* section 1 in https://eprint.iacr.org/2014/795.pdf
* </p>
*/
```

Found in path(s):

```
* /opt/cola/permits/1136414823_1613765312.21/0/bcprov-ext-jdk15on-1-64-sources-1-
jar/org/bouncycastle/pqc/crypto/sphincs/SPHINCS256Signer.java
```

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```
/**
```

```
 * Magic value for proprietary OpenSSH private key.
```

```
 **/
```

Found in path(s):

```
* /opt/cola/permits/1136414823_1613765312.21/0/bcprov-ext-jdk15on-1-64-sources-1-
jar/org/bouncycastle/crypto/util/OpenSSHPrivateKeyUtil.java
```

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```
public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,
```

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```
* /opt/cola/permits/1136414823_1613765312.21/0/bcprov-ext-jdk15on-1-64-sources-1-
jar/org/bouncycastle/asn1/x9/DomainParameters.java
```

# 1.699 velocity-engine-core 2.0

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# 1.700 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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\* /opt/cola/permits/1136827867\_1613930899.82/0/spring-security-jwt-1-0-11-release-sources-2-jar/org/springframework/security/jwt/crypto/sign/EllipticCurveKeyHelper.java

\*

/opt/cola/permits/1136827867\_1613930899.82/0/spring-security-jwt-1-0-11-release-sources-2-jar/org/springframework/security/jwt/crypto/sign/EllipticCurveSignatureHelper.java

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/\*\*

\* Base64 encoder which is a reduced version of Robert Harder's public domain implementation (version 2.3.7).

\* See <a

href="https://iharder.sourceforge.net/current/java/base64/">https://iharder.sourceforge.net/current/java/base64/</a>

for more information.

\*

\* @author Luke Taylor

\*/

Found in path(s):

\* /opt/cola/permits/1136827867\_1613930899.82/0/spring-security-jwt-1-0-11-release-sources-2-jar/org/springframework/security/jwt/codec/Base64Codec.java

## 1.704 spring-cloud-starter-openfeign

### 2.2.3.RELEASE

#### 1.704.1 Available under license :

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1073035087\_1597999514.04/0/spring-cloud-starter-openfeign-2-2-3-release-jar/META-INF/maven/org.springframework.cloud/spring-cloud-starter-openfeign/pom.xml

# 1.705 spring-cloud-openfeign-core

## 2.2.3.RELEASE

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 */
```

Found in path(s):

```
* /opt/cola/permits/1136829778_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-
jar/org/springframework/cloud/openfeign/support/PageJacksonModule.java
* /opt/cola/permits/1136829778_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-
jar/org/springframework/cloud/openfeign/clientconfig/HttpClientFeignConfiguration.java
*
/opt/cola/permits/1136829778_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-
jar/org/springframework/cloud/openfeign/support/FeignUtils.java
* /opt/cola/permits/1136829778_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-
jar/org/springframework/cloud/openfeign/encoding/HttpEncoding.java
* /opt/cola/permits/1136829778_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-
jar/org/springframework/cloud/openfeign/FeignClientFactoryBean.java
* /opt/cola/permits/1136829778_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-
jar/org/springframework/cloud/openfeign/ribbon/CachingSpringLoadBalancerFactory.java
* /opt/cola/permits/1136829778_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-
jar/org/springframework/cloud/openfeign/support/AbstractFormWriter.java
* /opt/cola/permits/1136829778_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-
jar/org/springframework/cloud/openfeign/support/DefaultGzipDecoderConfiguration.java
*
/opt/cola/permits/1136829778_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-
jar/org/springframework/cloud/openfeign/SpringQueryMap.java
* /opt/cola/permits/1136829778_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-
jar/org/springframework/cloud/openfeign/encoding/BaseRequestInterceptor.java
* /opt/cola/permits/1136829778_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-
```

jar/org/springframework/cloud/openfeign/support/SpringEncoder.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/DefaultTargeter.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/loadbalancer/HttpClientFeignLoadBalancerConfiguration.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/FeignClientBuilder.java  
\*  
/opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/FeignContext.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/support/SpringDecoder.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/EnableFeignClients.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/support/PageableSpringEncoder.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/FeignClient.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/HystrixTargeter.java  
\*  
/opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/annotation/RequestParamParameterProcessor.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/encoding/FeignContentGzipEncodingAutoConfiguration.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/loadbalancer/FeignLoadBalancerAutoConfiguration.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/encoding/FeignAcceptGzipEncodingInterceptor.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/ribbon/OkHttpFeignLoadBalancedConfiguration.java  
\*  
/opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/ribbon/RetryableFeignLoadBalancer.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/loadbalancer/DefaultFeignLoadBalancerConfiguration.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/FeignFormatterRegistrar.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/support/JsonFormWriter.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/support/SpringMvcContract.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/encoding/FeignAcceptGzipEncodingAutoConfiguration.java  
\*  
/opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/FeignClientSpecification.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-

jar/org/springframework/cloud/openfeign/loadbalancer/FeignBlockingLoadBalancerClient.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-  
jar/org/springframework/cloud/openfeign/ribbon/FeignLoadBalancer.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-  
jar/org/springframework/cloud/openfeign/encoding/FeignClientEncodingProperties.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-  
jar/org/springframework/cloud/openfeign/annotation/PathVariableParameterProcessor.java  
\*  
/opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-  
jar/org/springframework/cloud/openfeign/annotation/QueryMapParameterProcessor.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-  
jar/org/springframework/cloud/openfeign/ribbon/FeignRetryPolicy.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-  
jar/org/springframework/cloud/openfeign/FeignClientsRegistrar.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-  
jar/org/springframework/cloud/openfeign/annotation/MatrixVariableParameterProcessor.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-  
jar/org/springframework/cloud/openfeign/FeignClientProperties.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-  
jar/org/springframework/cloud/openfeign/loadbalancer/OkHttpFeignLoadBalancerConfiguration.java  
\*  
/opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-  
jar/org/springframework/cloud/openfeign/support/DefaultGzipDecoder.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-  
jar/org/springframework/cloud/openfeign/ribbon/RibbonResponseStatusCodeException.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-  
jar/org/springframework/cloud/openfeign/clientconfig/OkHttpFeignConfiguration.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-  
jar/org/springframework/cloud/openfeign/support/FallbackCommand.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-  
jar/org/springframework/cloud/openfeign/FeignAutoConfiguration.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-  
jar/org/springframework/cloud/openfeign/encoding/FeignContentGzipEncodingInterceptor.java  
\*  
/opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-  
jar/org/springframework/cloud/openfeign/AnnotatedParameterProcessor.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-  
jar/org/springframework/cloud/openfeign/annotation/RequestPartParameterProcessor.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-  
jar/org/springframework/cloud/openfeign/support/SortJsonComponent.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-  
jar/org/springframework/cloud/openfeign/support/SortJacksonModule.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-  
jar/org/springframework/cloud/openfeign/ribbon/DefaultFeignLoadBalancedConfiguration.java  
\*  
/opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-  
jar/org/springframework/cloud/openfeign/support/FeignHttpClientProperties.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-



jar/org/springframework/cloud/openfeign/ribbon/LoadBalancerFeignClient.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/Targeter.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/ribbon/FeignRibbonClientAutoConfiguration.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/FeignClientsConfiguration.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/annotation/RequestHeaderParameterProcessor.java  
\*  
/opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/ribbon/HttpClientFeignLoadBalancedConfiguration.java  
\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/support/ResponseEntityDecoder.java  
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\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/FeignErrorDecoderFactory.java  
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\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/clientconfig/FeignClientConfigurer.java

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\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/DefaultFeignLoggerFactory.java

\* /opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/hateoas/FeignHalAutoConfiguration.java

\*

/opt/cola/permits/1136829778\_1613930970.48/0/spring-cloud-openfeign-core-2-2-3-release-sources-1-jar/org/springframework/cloud/openfeign/FeignLoggerFactory.java

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# 1.706 zstd 1.3.8+dfsg-3+deb10u2

## 1.706.1 Available under license :

Format: <https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: Zstd

Source: <https://github.com/facebook/zstd>

Files-Excluded: appveyor.yml

circle.yml

build/\*

programs/windres/\*

.travis.yml

.buckversion

.buckconfig

.circleci/\*

Files: \*

Copyright: 2013-2018, Yann Collet

2016, Przemyslaw Skibinski

2016-2018, Facebook, Inc.

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Comment: Starting from 1.3.1 zstd's patent claim is removed

see: <https://github.com/facebook/zstd/pull/801>

Files: zlibWrapper/examples/\*.c

Copyright: 1995-2006, 2011 Jean-loup Gailly

License: zlib

Files: zlibWrapper/gz\*.c

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Files: contrib/linux-kernel/fs/squashfs/\*

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Files: lib/dictBuilder/divsufsort.\*

Copyright: 2003-2008, Yuta Mori

License: Expat

Files: examples/\*

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Files: debian/\*

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# 1.707 openssl 1.1.1d 0+deb10u5

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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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\* /opt/cola/permits/1137898282\_1614163541.01/0/spring-cloud-netflix-hystrix-2-2-3-release-sources-1-jar/org/springframework/cloud/netflix/hystrix/HystrixAutoConfiguration.java

\* /opt/cola/permits/1137898282\_1614163541.01/0/spring-cloud-netflix-hystrix-2-2-3-release-sources-1-jar/org/springframework/cloud/netflix/hystrix/EnableHystrix.java

\*

/opt/cola/permits/1137898282\_1614163541.01/0/spring-cloud-netflix-hystrix-2-2-3-release-sources-1-jar/org/springframework/cloud/netflix/hystrix/HystrixCircuitBreakerFactory.java

\* /opt/cola/permits/1137898282\_1614163541.01/0/spring-cloud-netflix-hystrix-2-2-3-release-sources-1-jar/org/springframework/cloud/netflix/hystrix/security/HystrixSecurityAutoConfiguration.java

\* /opt/cola/permits/1137898282\_1614163541.01/0/spring-cloud-netflix-hystrix-2-2-3-release-sources-1-jar/org/springframework/cloud/netflix/hystrix/HystrixWebfluxEndpoint.java

\* /opt/cola/permits/1137898282\_1614163541.01/0/spring-cloud-netflix-hystrix-2-2-3-release-sources-1-

jar/org/springframework/cloud/netflix/hystrix/HystrixCircuitBreakerConfiguration.java  
\* /opt/cola/permits/1137898282\_1614163541.01/0/spring-cloud-netflix-hystrix-2-2-3-release-sources-1-  
jar/org/springframework/cloud/netflix/hystrix/HystrixProperties.java  
\* /opt/cola/permits/1137898282\_1614163541.01/0/spring-cloud-netflix-hystrix-2-2-3-release-sources-1-  
jar/org/springframework/cloud/netflix/hystrix/ReactiveHystrixCircuitBreakerAutoConfiguration.java  
\*  
/opt/cola/permits/1137898282\_1614163541.01/0/spring-cloud-netflix-hystrix-2-2-3-release-sources-1-  
jar/org/springframework/cloud/netflix/hystrix/HystrixCommands.java  
\* /opt/cola/permits/1137898282\_1614163541.01/0/spring-cloud-netflix-hystrix-2-2-3-release-sources-1-  
jar/org/springframework/cloud/netflix/hystrix/HystrixCircuitBreaker.java  
\* /opt/cola/permits/1137898282\_1614163541.01/0/spring-cloud-netflix-hystrix-2-2-3-release-sources-1-  
jar/org/springframework/cloud/netflix/hystrix/HystrixHealthIndicator.java  
\* /opt/cola/permits/1137898282\_1614163541.01/0/spring-cloud-netflix-hystrix-2-2-3-release-sources-1-  
jar/org/springframework/cloud/netflix/hystrix/ReactiveHystrixCircuitBreakerFactory.java  
\* /opt/cola/permits/1137898282\_1614163541.01/0/spring-cloud-netflix-hystrix-2-2-3-release-sources-1-  
jar/org/springframework/cloud/netflix/hystrix/HystrixStreamEndpoint.java  
\*  
/opt/cola/permits/1137898282\_1614163541.01/0/spring-cloud-netflix-hystrix-2-2-3-release-sources-1-  
jar/org/springframework/cloud/netflix/hystrix/ReactiveHystrixCircuitBreaker.java  
\* /opt/cola/permits/1137898282\_1614163541.01/0/spring-cloud-netflix-hystrix-2-2-3-release-sources-1-  
jar/org/springframework/cloud/netflix/hystrix/HystrixCircuitBreakerAutoConfiguration.java  
\* /opt/cola/permits/1137898282\_1614163541.01/0/spring-cloud-netflix-hystrix-2-2-3-release-sources-1-  
jar/org/springframework/cloud/netflix/hystrix/AbstractHystrixConfigBuilder.java  
\* /opt/cola/permits/1137898282\_1614163541.01/0/spring-cloud-netflix-hystrix-2-2-3-release-sources-1-  
jar/org/springframework/cloud/netflix/hystrix/HystrixMetricsProperties.java  
\* /opt/cola/permits/1137898282\_1614163541.01/0/spring-cloud-netflix-hystrix-2-2-3-release-sources-1-  
jar/org/springframework/cloud/netflix/hystrix/HystrixConstants.java  
\* /opt/cola/permits/1137898282\_1614163541.01/0/spring-cloud-netflix-hystrix-2-2-3-release-sources-1-  
jar/org/springframework/cloud/netflix/hystrix/security/SecurityContextConcurrencyStrategy.java

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## 1.712 spring-cloud-netflix-archaius

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```
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jar/org/springframework/cloud/netflix/archaius/ArchaiusAutoConfiguration.java  
* /opt/cola/permits/1137898389_1614163545.94/0/spring-cloud-netflix-archaius-2-2-3-release-sources-1-  
jar/org/springframework/cloud/netflix/archaius/ConfigurableEnvironmentConfiguration.java  
*
```

```
/opt/cola/permits/1137898389_1614163545.94/0/spring-cloud-netflix-archaius-2-2-3-release-sources-1-  
jar/org/springframework/cloud/netflix/archaius/ArchaiusDelegatingProxyUtils.java  
* /opt/cola/permits/1137898389_1614163545.94/0/spring-cloud-netflix-archaius-2-2-3-release-sources-1-  
jar/org/springframework/cloud/netflix/archaius/ArchaiusEndpoint.java
```

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Found in path(s):

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analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java  
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## 1.726 lucene-suggest 7.7.3

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analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java  
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## 1.727 lucene-grouping 7.7.3

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Nori Korean Morphological Analyzer - Apache Lucene Integration  
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## 1.728 lucene-memory 7.7.3

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Nori Korean Morphological Analyzer - Apache Lucene Integration

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This software includes a binary and/or source version of data from

mecab-ko-dic-2.0.3-20170922

which can be obtained from

<https://bitbucket.org/eunjeon/mecab-ko-dic/downloads/mecab-ko-dic-2.0.3-20170922.tar.gz>

## 1.729 spring-cloud-starter-loadbalancer

### 2.2.3.RELEASE

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\* Set the max pool size of the ThreadPoolExecutor.

\* **NOTE:** When an unbounded

\* { @link #queueCapacity(int) queueCapacity } is configured (the default), the

\* max pool size is effectively ignored. See the "Unbounded queues" strategy

\* in { @link java.util.concurrent.ThreadPoolExecutor

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\* 

By default this is set to { @code Integer.MAX\_VALUE }.

\*/

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\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/handler/invocation/AbstractMethodMessageHandler.java  
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/opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/handler/invocation/reactive/AbstractEncoderMethodReturnValueHandler.java  
\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/rsocket/PayloadUtils.java  
\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/ReactiveMessageHandler.java  
\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/handler/CompositeMessageCondition.java  
\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/simp/broker/DefaultSubscriptionRegistry.java  
\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/core/GenericMessagingTemplate.java  
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/opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/simp/annotation/support/SimpAnnotationMethodMessageHandler.java  
\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/handler/annotation/reactive/AbstractNamedValueMethodArgumentResolver.java  
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\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/rsocket/annotation/support/RSocketRequesterMethodArgumentResolver.java  
\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/handler/annotation/reactive/PayloadMethodArgumentResolver.java  
\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/handler/HandlerMethod.java  
\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/simp/stomp/StompHeaderAccessor.java  
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/opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/handler/annotation/reactive/MessageMappingMessageHandler.java  
\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/simp/user/DefaultUserDestinationResolver.java  
\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-

jar/org/springframework/messaging/rsocket/MetadataExtractorRegistry.java  
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jar/org/springframework/messaging/simp/SimpMessageHeaderAccessor.java  
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jar/org/springframework/messaging/rsocket/MetadataExtractorRegistryExtensions.kt  
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jar/org/springframework/messaging/simp/annotation/support/PrincipalMethodArgumentResolver.java  
\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-  
jar/org/springframework/messaging/handler/annotation/reactive/DestinationVariableMethodArgumentResolver.java  
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jar/org/springframework/messaging/simp/SimpMessagingTemplate.java  
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jar/org/springframework/messaging/handler/invocation/reactive/InvocableHelper.java  
\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-  
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jar/org/springframework/messaging/handler/invocation/HandlerMethodReturnValueHandlerComposite.java  
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/opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-  
jar/org/springframework/messaging/handler/annotation/reactive/ContinuationHandlerMethodArgumentResolver.java  
\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-  
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jar/org/springframework/messaging/converter/MappingJackson2MessageConverter.java  
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jar/org/springframework/messaging/handler/annotation/reactive/HeadersMethodArgumentResolver.java  
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\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-  
jar/org/springframework/messaging/simp/stomp/DefaultStompSession.java  
\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-  
jar/org/springframework/messaging/rsocket/DefaultRSocketStrategies.java  
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jar/org/springframework/messaging/handler/DestinationPatternsMessageCondition.java  
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jar/org/springframework/messaging/rsocket/RSocketRequesterExtensions.kt  
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jar/org/springframework/messaging/rsocket/annotation/ConnectMapping.java

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 \* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/handler/annotation/support/DefaultMessageHandlerMethodFactory.java  
 \* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/handler/annotation/reactive/HeaderMethodArgumentResolver.java  
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 /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/rsocket/DefaultMetadataExtractor.java  
 \* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/handler/invocation/reactive/HandlerMethodArgumentResolverComposite.java  
 \* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/handler/annotation/MessageMapping.java  
 \* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/handler/annotation/support/PayloadArgumentResolver.java  
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 \* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/handler/annotation/support/HeaderMethodArgumentResolver.java  
 \* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/simp/config/AbstractMessageBrokerConfiguration.java  
 \* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/rsocket/annotation/support/RSocketFrameTypeMessageCondition.java  
 \* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/handler/annotation/support/MethodArgumentNotValidException.java  
 \* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/simp/stomp/StompBrokerRelayMessageHandler.java  
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/opt/cola/permits/1138169219_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-
jar/org/springframework/messaging/simp/broker/SimpleBrokerMessageHandler.java
* /opt/cola/permits/1138169219_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-
jar/org/springframework/messaging/rsocket/DefaultRSocketRequester.java
* /opt/cola/permits/1138169219_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-
jar/org/springframework/messaging/simp/SimpMessageMappingInfo.java
* /opt/cola/permits/1138169219_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-
jar/org/springframework/messaging/handler/invocation/HandlerMethodArgumentResolverComposite.java
* /opt/cola/permits/1138169219_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-
jar/org/springframework/messaging/handler/invocation/AbstractExceptionHandlerMethodResolver.java
* /opt/cola/permits/1138169219_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-
jar/org/springframework/messaging/handler/AbstractMessageCondition.java
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/opt/cola/permits/1138169219_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-
jar/org/springframework/messaging/converter/AbstractMessageConverter.java
* /opt/cola/permits/1138169219_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-
jar/org/springframework/messaging/handler/annotation/support/AbstractNamedValueMethodArgumentResolver.jav
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Found in path(s):

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* /opt/cola/permits/1138169219_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-
jar/org/springframework/messaging/simp/SimpSessionScope.java
* /opt/cola/permits/1138169219_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-
jar/org/springframework/messaging/handler/invocation/HandlerMethodReturnValueHandler.java
*
/opt/cola/permits/1138169219_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-
jar/org/springframework/messaging/simp/SimpMessageTypeMessageCondition.java
* /opt/cola/permits/1138169219_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-
jar/org/springframework/messaging/converter/StringMessageConverter.java
* /opt/cola/permits/1138169219_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-
jar/org/springframework/messaging/support/IdTimestampMessageHeaderInitializer.java
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\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/simp/user/SimpSubscription.java  
 \* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/simp/user/UserRegistryMessageHandler.java  
 \* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/converter/ContentTypeResolver.java  
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 /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/converter/GenericMessageConverter.java  
 \* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/simp/SimpMessageSendingOperations.java  
 \* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/converter/SmartMessageConverter.java  
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 \* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/converter/MessageConversionException.java  
 \* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/simp/user/SimpSession.java  
 \* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/handler/invocation/MethodArgumentResolutionException.java  
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 /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/simp/annotation/support/SubscriptionMethodReturnValueHandler.java  
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 \* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/converter/ByteArrayMessageConverter.java  
 \* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/converter/MessageConverter.java  
 \* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/MessagingException.java  
 \* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/handler/invocation/reactive/HandlerMethodReturnValueHandler.java  
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/opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/core/BeanFactoryMessageChannelDestinationResolver.java  
\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/simp/stomp/StompClientSupport.java  
\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/support/ErrorMessage.java  
\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/simp/user/SimpUser.java  
\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/simp/stomp/StompSessionHandler.java  
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\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/handler/annotation/Header.java

\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/simp/stomp/ConnectionHandlingStompSession.java

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\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/tcp/TcpOperations.java

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\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/simp/stomp/StompSessionHandlerAdapter.java

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\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/rsocket/annotation/support/MessagingRSocket.java

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/opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/rsocket/DefaultRSocketRequesterBuilder.java

\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/rsocket/MetadataEncoder.java

\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/tcp/reactor/ReactorNettyTcpClient.java

\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/rsocket/ClientRSocketFactoryConfigurer.java

\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/converter/ProtobufMessageConverter.java

\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/simp/SimpMessageType.java

\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/simp/stomp/StompDecoder.java

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/opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/rsocket/RSocketStrategies.java  
\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/support/AbstractMessageChannel.java  
\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/rsocket/RSocketConnectorConfigurer.java  
\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/handler/invocation/reactive/AbstractMethodMessageHandler.java  
\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/rsocket/RSocketRequester.java  
\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/rsocket/annotation/support/RSocketMessageHandler.java  
\*  
/opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/converter/ProtobufJsonFormatMessageConverter.java  
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\*  
/opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/converter/SimpleMessageConverter.java  
\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/handler/annotation/support/MessageHandlerMethodFactory.java  
\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/support/MessageHandlingRunnable.java  
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\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-

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\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/simp/user/SimpUserRegistry.java

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/opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/converter/CompositeMessageConverter.java

\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/support/AbstractSubscribableChannel.java

\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/simp/user/UserDestinationResolver.java

\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/simp/stomp/StompCommand.java

\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/MessageChannel.java

\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/simp/user/SimpSubscriptionMatcher.java

\* /opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/simp/stomp/StompReactorNettyCodec.java

\*

/opt/cola/permits/1138169219\_1614268310.15/0/spring-messaging-5-2-7-release-sources-1-jar/org/springframework/messaging/simp/stomp/ConnectionLostException.java

## 1.732 spring-cloud-starter-netflix-ribbon

### 2.2.3.RELEASE

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Any

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`888' `8' `888 `Y88. `8888 d8'
888 8 888 .d88' Y888.8P
888 8 888ooo88P' `8888'
888 8 888 .8PY888.
`88. .8' 888 d8' `888b
`YbodP' o888o o888o o88888o
```

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```
-----  
=====
```

debian/dbg8.py:  
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Description: Makes the generated copyright headers reproducible

Author: Emmanuel Bourg <ebourg@apache.org>

Forwarded: no

```
--- a/make/jdk/src/classes/build/tools/cldrconverter/CopyrightHeaders.java  
+++ b/make/jdk/src/classes/build/tools/cldrconverter/CopyrightHeaders.java  
@@ -26,6 +26,7 @@  
package build.tools.cldrconverter;
```

```
import java.util.Calendar;  
+import java.util.Date;  
import java.util.GregorianCalendar;  
import java.util.Locale;  
import java.util.TimeZone;  
@@ -150,8 +151,14 @@  
    }  
  
    private static int getYear() {  
-        return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angeles"),  
-            Locale.US).get(Calendar.YEAR);  
+        Date date = new Date();  
+        if (System.getenv("SOURCE_DATE_EPOCH") != null) {  
+            date = new Date(1000 * Long.valueOf(System.getenv("SOURCE_DATE_EPOCH")));  
+        }  
+    }
```

```

+   GregorianCalendar calendar = new GregorianCalendar(TimeZone.getTimeZone("UTC"), Locale.ENGLISH);
+   calendar.setTime(date);
+
+   return calendar.get(Calendar.YEAR);
+ }

// no instantiation
--- a/make/jdk/src/classes/build/tools/generatelsrequivmaps/EquivMapsGenerator.java
+++ b/make/jdk/src/classes/build/tools/generatelsrequivmaps/EquivMapsGenerator.java
@@ -33,9 +33,13 @@
import java.time.ZoneId;
import java.time.ZonedDateTime;
import java.util.ArrayList;
+import java.util.Calendar;
+import java.util.Date;
+import java.util.GregorianCalendar;
import java.util.List;
import java.util.Locale;
import java.util.Map;
+import java.util.TimeZone;
import java.util.TreeMap;

/**
@@ -225,8 +229,15 @@
+ "});

private static String getOpenJDKCopyright() {
-   int year = ZonedDateTime.now(ZoneId
-       .of("America/Los_Angeles")).getYear();
+   Date date = new Date();
+   if (System.getenv("SOURCE_DATE_EPOCH") != null) {
+       date = new Date(1000 * Long.valueOf(System.getenv("SOURCE_DATE_EPOCH")));
+   }
+
+   GregorianCalendar
calendar = new GregorianCalendar(TimeZone.getTimeZone("UTC"), Locale.ENGLISH);
+   calendar.setTime(date);
+
+   int year = calendar.get(Calendar.YEAR);
return String.format(Locale.US, COPYRIGHT, year);
}

```

## 1.739 bcel 6.4.1

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# 1.741 x-crypto v0.0.0-20200622213623- 75b288015ac9

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\* SPHINCS-256 signer.

\* <p>

\* This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being the digests used

\* for message hashing and tree construction are now configurable (within limits...) and that the implementation produces

\* detached signatures.

\* </p>

\* <p>

\* The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of

\* section 1 in <https://eprint.iacr.org/2014/795.pdf>

\* </p>

\*/

Found in path(s):

\* /opt/cola/permits/1142371176\_1615370257.55/0/bcprov-ext-jdk15on-1-60-sources-1-jar/org/bouncycastle/pqc/crypto/sphincs/SPHINCS256Signer.java

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- \* Poly1305 message authentication code, designed by D. J. Bernstein.
  - \* <p>
  - \* Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
  - \* consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
  - \* effective key bits) used in the authenticator.
  - \* <p>
  - \* The polynomial calculation in this implementation is adapted from the public domain <a
  - \* href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled</a> C implementation
  - \* by Andrew M (@floodyberry).
  - \* @see Poly1305KeyGenerator
- \*/

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public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,

Found in path(s):

\* /opt/cola/permits/1142371176\_1615370257.55/0/bcprov-ext-jdk15on-1-60-sources-1-jar/org/bouncycastle/asn1/x9/DomainParameters.java

## 1.743 kerberos 1.17-3+deb10u1

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cmd/krb5/iprof/iprof.x
cmd/krb5/iprof/iprof_hdr.h
cmd/krb5/kadmin/server/iprofd_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
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
```

lib/libgss/g\_seal.c  
lib/libgss/g\_sign.c  
lib/libgss/g\_store\_cred.c  
lib/libgss/g\_unseal.c  
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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lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c



lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

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

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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## 1.744 readline 8.0.4

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## 1.746 spring-cloud-starter-vault-config

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## 2.2.3.RELEASE

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# 1.749 spring-vault-core 2.2.0.RELEASE

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# 1.750 jetty-continuation 9.4.29.v20200521

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org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

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

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org.eclipse.jetty.toolchain:jetty-schemas

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# 1.751 spring-cloud-stream-binder-kafka-core

## 3.0.6.RELEASE

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\* /opt/cola/permits/1142745174\_1615475703.51/0/spring-cloud-stream-binder-kafka-core-3-0-6-release-sources-jar/org/springframework/cloud/stream/binder/kafka/utils/KafkaTopicUtils.java

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jar/org/springframework/cloud/stream/binder/kafka/properties/KafkaProducerProperties.java
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jar/org/springframework/cloud/stream/binder/kafka/properties/JaasLoginModuleConfiguration.java
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jar/org/springframework/security/saml/processor/HTTPRedirectDeflateBinding.java
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jar/org/springframework/security/saml/SAMLAuthenticationProvider.java
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\* /opt/cola/permits/1077482393\_1607389215.6/0/spring-security-saml2-core-1-0-10-release-sources-jar/org/springframework/security/saml/util/VelocityFactory.java  
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# 1.756 spring-test 5.2.7.RELEASE

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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
*/
```

Found in path(s):

```
* /opt/cola/permits/1142775403_1615476339.79/0/spring-test-5-2-7-release-sources-1-
jar/org/springframework/test/web/reactive/server/WebTestClientExtensions.kt
```

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```

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```
* /opt/cola/permits/1142775403_1615476339.79/0/spring-test-5-2-7-release-sources-1-
jar/org/springframework/mock/web/MockHttpServletRequest.java
```

```
* /opt/cola/permits/1142775403_1615476339.79/0/spring-test-5-2-7-release-sources-1-
jar/org/springframework/test/context/DynamicPropertyRegistry.java
```

```
*
```

```
/opt/cola/permits/1142775403_1615476339.79/0/spring-test-5-2-7-release-sources-1-
jar/org/springframework/test/context/TestPropertySource.java
```

```
* /opt/cola/permits/1142775403_1615476339.79/0/spring-test-5-2-7-release-sources-1-
jar/org/springframework/test/context/support/DynamicPropertiesContextCustomizerFactory.java
```

\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/DynamicPropertySource.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/web/client/AbstractRequestExpectationManager.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/support/DynamicPropertiesContextCustomizer.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/web/servlet/request/MockHttpServletRequestBuilder.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/mock/http/MockHttpOutputMessage.java  
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/opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/mock/http/client/reactive/MockClientHttpResponse.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/transaction/TestContextTransactionUtils.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/support/DynamicValuesPropertySource.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/mock/http/client/reactive/MockClientHttpRequest.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/mock/http/server/reactive/MockServerHttpResponse.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/web/servlet/htmlunit/HtmlUnitRequestBuilder.java  
\*  
/opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/web/servlet/htmlunit/MockMvcWebConnectionBuilderSupport.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/web/servlet/setup/StandaloneMockMvcBuilder.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/web/reactive/server/HttpHandlerConnector.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/web/reactive/server/WebTestClient.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/mock/web/reactive/function/server/MockServerRequest.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/mock/http/server/reactive/MockServerHttpRequest.java

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Found in path(s):

- \* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/mock/web/DelegatingServletInputStream.java
- \* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/mock/web/MockServletConfig.java
- \*
- /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/support/AbstractDelegatingSmartContextLoader.java
- \* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/junit4/rules/SpringMethodRule.java
- \* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/transaction/TransactionContext.java
- \* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/web/client/DefaultRequestExpectation.java
- \* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/web/servlet/ResultActions.java
- \* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/support/DefaultBootstrapContext.java
- \* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/BootstrapWith.java
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- /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/web/servlet/htmlunit/MockWebResponseBuilder.java
- \* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/mock/web/MockFilterChain.java
- \* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/util/JsonExpectationsHelper.java
- \* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/support/AbstractTestContextBootstrapper.java
- \* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/web/reactive/server/HeaderAssertions.java
- \* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/web/servlet/setup/ConfigurableMockMvcBuilder.java
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- /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/transaction/TransactionContextHolder.java
- \* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/web/client/ExpectedCount.java
- \* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/web/reactive/server/WiretapConnector.java
- \* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/junit4/statements/RunAfterTestExecutionCallbacks.java

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\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/mock/web/MockPart.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/support/ContextLoaderUtils.java  
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\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/web/servlet/htmlunit/ForwardRequestPostProcessor.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/transaction/TestTransaction.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/web/servlet/DefaultMvcResult.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/mock/web/MockHttpSession.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/junit4/statements/RunPrepareTestInstanceCallbacks.java  
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jar/org/springframework/test/context/web/GenericGroovyXmlWebContextLoader.java  
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jar/org/springframework/mock/web/MockPageContext.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-  
jar/org/springframework/test/web/servlet/SmartRequestBuilder.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-  
jar/org/springframework/test/annotation/SystemProfileValueSource.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-  
jar/org/springframework/test/web/servlet/result/StatusResultMatchersExtensions.kt  
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jar/org/springframework/test/web/reactive/server/DefaultRouterFunctionSpec.java  
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jar/org/springframework/test/web/client/RequestExpectationManager.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-  
jar/org/springframework/mock/env/MockEnvironment.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-  
jar/org/springframework/test/context/junit4/statements/SpringFailOnTimeout.java  
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\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-  
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/opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-  
jar/org/springframework/test/context/support/DefaultActiveProfilesResolver.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-  
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\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-  
jar/org/springframework/test/web/servlet/TestDispatcherServlet.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-  
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\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-  
jar/org/springframework/test/util/XmlExpectationsHelper.java  
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\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-  
jar/org/springframework/test/context/support/DependencyInjectionTestExecutionListener.java  
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jar/org/springframework/test/annotation/ProfileValueUtils.java
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* /opt/cola/permits/1142775403_1615476339.79/0/spring-test-5-2-7-release-sources-1-
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* /opt/cola/permits/1142775403_1615476339.79/0/spring-test-5-2-7-release-sources-1-
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* /opt/cola/permits/1142775403_1615476339.79/0/spring-test-5-2-7-release-sources-1-
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jar/org/springframework/mock/web/MockBodyContent.java
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jar/org/springframework/test/web/servlet/setup/AbstractMockMvcBuilder.java
* /opt/cola/permits/1142775403_1615476339.79/0/spring-test-5-2-7-release-sources-1-
jar/org/springframework/mock/web/MockExpressionEvaluator.java
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* /opt/cola/permits/1142775403_1615476339.79/0/spring-test-5-2-7-release-sources-1-
jar/org/springframework/mock/web/DelegatingServletOutputStream.java
* /opt/cola/permits/1142775403_1615476339.79/0/spring-test-5-2-7-release-sources-1-
jar/org/springframework/test/web/servlet/ResultHandler.java
*
/opt/cola/permits/1142775403_1615476339.79/0/spring-test-5-2-7-release-sources-1-
jar/org/springframework/test/context/jdbc/SqlGroup.java
```

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\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/TestContextBootstrapper.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/web/servlet/DispatcherServletCustomizer.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/web/WebTestContextBootstrapper.java  
\*  
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\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/web/servlet/htmlunit/WebRequestMatcher.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/web/servlet/htmlunit/UrlRegexRequestMatcher.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/ContextCustomizerFactory.java  
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\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/junit4/SpringRunner.java  
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\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/ActiveProfilesResolver.java  
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\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/junit4/statements/RunAfterTestMethodCallbacks.java  
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\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/web/servlet/result/RequestResultMatchers.java



\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/web/WebMergedContextConfiguration.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/annotation/Timed.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/support/DefaultTestContext.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/mock/web/MockHttpServletResponse.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/web/servlet/result/ContentResultMatchers.java  
\*

/opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/event/annotation/BeforeTestMethod.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/util/XpathExpectationsHelper.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/mock/web/MockCookie.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/TestConstructor.java

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\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/support/DelegatingSmartContextLoader.java  
\*

/opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/support/MergedTestPropertySources.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/web/servlet/setup/MockMvcConfigurerAdapter.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-

jar/org/springframework/test/context/web/WebDelegatingSmartContextLoader.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-  
jar/org/springframework/test/context/support/GenericXmlContextLoader.java  
\* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-  
jar/org/springframework/test/context/support/DefaultTestContextBootstrapper.java  
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jar/org/springframework/test/context/junit4/statements/RunBeforeTestMethodCallbacks.java  
* /opt/cola/permits/1142775403_1615476339.79/0/spring-test-5-2-7-release-sources-1-  
jar/org/springframework/test/context/support/AbstractDirtyContextTestExecutionListener.java  
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jar/org/springframework/test/context/junit4/statements/SpringRepeat.java  
* /opt/cola/permits/1142775403_1615476339.79/0/spring-test-5-2-7-release-sources-1-  
jar/org/springframework/test/web/client/ResponseActions.java  
* /opt/cola/permits/1142775403_1615476339.79/0/spring-test-5-2-7-release-sources-1-  
jar/org/springframework/test/context/BootstrapContext.java  
* /opt/cola/permits/1142775403_1615476339.79/0/spring-test-5-2-7-release-sources-1-  
jar/org/springframework/test/context/junit4/statements/RunBeforeTestClassCallbacks.java  
* /opt/cola/permits/1142775403_1615476339.79/0/spring-test-5-2-7-release-sources-1-  
jar/org/springframework/test/context/web/GenericXmlWebContextLoader.java  
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- \* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/web/client/response/DefaultResponseCreator.java
- \*
- /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/junit4/statements/ProfileValueChecker.java
- \* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/mock/http/client/MockAsyncClientHttpRequest.java
- \* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/support/ActiveProfilesUtils.java
- \* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/mock/http/MockHttpInputMessage.java
- \* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/web/reactive/server/EntityExchangeResult.java
- \* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/web/servlet/htmlunit/MockMvcWebClientBuilder.java
- \* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/web/servlet/setup/SharedHttpSessionConfigurer.java
- \*
- /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/junit/jupiter/EnabledIfCondition.java
- \* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/web/servlet/setup/DefaultMockMvcBuilder.java
- \* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/ContextConfigurationAttributes.java
- \* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/web/ServletTestExecutionListener.java
- \* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/junit/jupiter/web/SpringJUnitWebConfig.java
- \* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/util/AopTestUtils.java
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- /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/web/servlet/MockMvcBuilderSupport.java
- \* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-jar/org/springframework/test/context/junit/jupiter/SpringJUnitConfig.java
- \* /opt/cola/permits/1142775403\_1615476339.79/0/spring-test-5-2-7-release-sources-1-

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jar/org/springframework/test/web/servlet/RequestBuilder.java
* /opt/cola/permits/1142775403_1615476339.79/0/spring-test-5-2-7-release-sources-1-
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jar/org/springframework/test/context/ContextLoader.java
* /opt/cola/permits/1142775403_1615476339.79/0/spring-test-5-2-7-release-sources-1-
jar/org/springframework/test/context/web/socket/MockServerContainerContextCustomizer.java
* /opt/cola/permits/1142775403_1615476339.79/0/spring-test-5-2-7-release-sources-1-
jar/org/springframework/test/web/servlet/request/MockMultipartHttpServletRequestBuilder.java
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/opt/cola/permits/1142775403_1615476339.79/0/spring-test-5-2-7-release-sources-1-
jar/org/springframework/test/web/servlet/htmlunit/webdriver/MockMvcHtmlUnitDriverBuilder.java
* /opt/cola/permits/1142775403_1615476339.79/0/spring-test-5-2-7-release-sources-1-
jar/org/springframework/test/context/junit/jupiter/AbstractExpressionEvaluatingCondition.java
* /opt/cola/permits/1142775403_1615476339.79/0/spring-test-5-2-7-release-sources-1-
jar/org/springframework/mock/http/client/MockClientHttpRequest.java
* /opt/cola/permits/1142775403_1615476339.79/0/spring-test-5-2-7-release-sources-1-
jar/org/springframework/test/web/servlet/setup/MockMvcConfigurer.java
* /opt/cola/permits/1142775403_1615476339.79/0/spring-test-5-2-7-release-sources-1-
jar/org/springframework/test/web/reactive/server/ApplicationContextSpec.java
* /opt/cola/permits/1142775403_1615476339.79/0/spring-test-5-2-7-release-sources-1-
jar/org/springframework/test/web/servlet/htmlunit/webdriver/WebConnectionHtmlUnitDriver.java
*
/opt/cola/permits/1142775403_1615476339.79/0/spring-test-5-2-7-release-sources-1-
jar/org/springframework/mock/http/client/MockClientHttpResponse.java
* /opt/cola/permits/1142775403_1615476339.79/0/spring-test-5-2-7-release-sources-1-
jar/org/springframework/test/context/junit/jupiter/DisabledIfCondition.java

```

## 1.757 spring-cloud-netflix-zuul

### 2.2.3.RELEASE

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\* /opt/cola/permits/1142777888\_1615476363.91/0/spring-cloud-netflix-zuul-2-2-3-release-sources-1-jar/org/springframework/cloud/netflix/zuul/ZuulRouteApplicationContextInitializer.java  
\*

/opt/cola/permits/1142777888\_1615476363.91/0/spring-cloud-netflix-zuul-2-2-3-release-sources-1-jar/org/springframework/cloud/netflix/zuul/ZuulProxyMarkerConfiguration.java  
\* /opt/cola/permits/1142777888\_1615476363.91/0/spring-cloud-netflix-zuul-2-2-3-release-sources-1-jar/org/springframework/cloud/netflix/zuul/FiltersEndpoint.java  
\* /opt/cola/permits/1142777888\_1615476363.91/0/spring-cloud-netflix-zuul-2-2-3-release-sources-1-jar/org/springframework/cloud/netflix/zuul/ZuulServerMarkerConfiguration.java

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* /opt/cola/permits/1142777888_1615476363.91/0/spring-cloud-netflix-zuul-2-2-3-release-sources-1-
jar/org/springframework/cloud/netflix/zuul/RoutesEndpoint.java
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/opt/cola/permits/1142777888_1615476363.91/0/spring-cloud-netflix-zuul-2-2-3-release-sources-1-
jar/org/springframework/cloud/netflix/zuul/EnableZuulServer.java
* /opt/cola/permits/1142777888_1615476363.91/0/spring-cloud-netflix-zuul-2-2-3-release-sources-1-
jar/org/springframework/cloud/netflix/zuul/metrics/EmptyCounterFactory.java
* /opt/cola/permits/1142777888_1615476363.91/0/spring-cloud-netflix-zuul-2-2-3-release-sources-1-
jar/org/springframework/cloud/netflix/zuul/filters/pre/PreDecorationFilter.java
* /opt/cola/permits/1142777888_1615476363.91/0/spring-cloud-netflix-zuul-2-2-3-release-sources-1-
jar/org/springframework/cloud/netflix/zuul/filters/pre/Servlet30RequestWrapper.java
* /opt/cola/permits/1142777888_1615476363.91/0/spring-cloud-netflix-zuul-2-2-3-release-sources-1-
jar/org/springframework/cloud/netflix/zuul/filters/discovery/DiscoveryClientRouteLocator.java
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jar/org/springframework/cloud/netflix/zuul/filters/RouteLocator.java
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/opt/cola/permits/1142777888_1615476363.91/0/spring-cloud-netflix-zuul-2-2-3-release-sources-1-
jar/org/springframework/cloud/netflix/zuul/filters/post/SendResponseFilter.java
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jar/org/springframework/cloud/netflix/zuul/filters/route/RibbonRoutingFilter.java
* /opt/cola/permits/1142777888_1615476363.91/0/spring-cloud-netflix-zuul-2-2-3-release-sources-1-
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jar/org/springframework/cloud/netflix/zuul/RoutesRefreshedEvent.java  
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/opt/cola/permits/1142777888\_1615476363.91/0/spring-cloud-netflix-zuul-2-2-3-release-sources-1-  
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jar/org/springframework/cloud/netflix/zuul/filters/pre/FormBodyWrapperFilter.java  
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jar/org/springframework/cloud/netflix/zuul/web/ZuulController.java  
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/opt/cola/permits/1142777888_1615476363.91/0/spring-cloud-netflix-zuul-2-2-3-release-sources-1-
jar/org/springframework/cloud/netflix/zuul/metrics/DefaultCounterFactory.java
* /opt/cola/permits/1142777888_1615476363.91/0/spring-cloud-netflix-zuul-2-2-3-release-sources-1-
jar/org/springframework/cloud/netflix/zuul/util/RequestContentDataExtractor.java
* /opt/cola/permits/1142777888_1615476363.91/0/spring-cloud-netflix-zuul-2-2-3-release-sources-1-
jar/org/springframework/cloud/netflix/zuul/filters/ZuulProperties.java
* /opt/cola/permits/1142777888_1615476363.91/0/spring-cloud-netflix-zuul-2-2-3-release-sources-1-
jar/org/springframework/cloud/netflix/zuul/filters/route/SendForwardFilter.java
* /opt/cola/permits/1142777888_1615476363.91/0/spring-cloud-netflix-zuul-2-2-3-release-sources-1-
jar/org/springframework/cloud/netflix/zuul/EnableZuulProxy.java
* /opt/cola/permits/1142777888_1615476363.91/0/spring-cloud-netflix-zuul-2-2-3-release-sources-1-
jar/org/springframework/cloud/netflix/zuul/filters/RefreshableRouteLocator.java
*
/opt/cola/permits/1142777888_1615476363.91/0/spring-cloud-netflix-zuul-2-2-3-release-sources-1-
jar/org/springframework/cloud/netflix/zuul/util/RequestUtils.java
* /opt/cola/permits/1142777888_1615476363.91/0/spring-cloud-netflix-zuul-2-2-3-release-sources-1-
jar/org/springframework/cloud/netflix/zuul/filters/route/support/AbstractRibbonCommandFactory.java
* /opt/cola/permits/1142777888_1615476363.91/0/spring-cloud-netflix-zuul-2-2-3-release-sources-1-
jar/org/springframework/cloud/netflix/zuul/ZuulProxyAutoConfiguration.java
* /opt/cola/permits/1142777888_1615476363.91/0/spring-cloud-netflix-zuul-2-2-3-release-sources-1-
jar/org/springframework/cloud/netflix/zuul/ZuulFilterInitializer.java
* /opt/cola/permits/1142777888_1615476363.91/0/spring-cloud-netflix-zuul-2-2-3-release-sources-1-
jar/org/springframework/cloud/netflix/zuul/filters/route/RibbonCommandFactory.java
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jar/org/springframework/cloud/netflix/zuul/filters/discovery/ServiceRouteMapper.java

```



\*

/opt/cola/permits/1142777888\_1615476363.91/0/spring-cloud-netflix-zuul-2-2-3-release-sources-1-jar/org/springframework/cloud/netflix/zuul/filters/discovery/PatternServiceRouteMapper.java

\* /opt/cola/permits/1142777888\_1615476363.91/0/spring-cloud-netflix-zuul-2-2-3-release-sources-1-jar/org/springframework/cloud/netflix/zuul/filters/discovery/SimpleServiceRouteMapper.java

# 1.758 spring-cloud-starter-netflix-zuul

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\* is no plans to change this as it will break existing requirements. Consider using

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\*

\* @author Glen Smith

\* @author Rainer Pruy

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\*/

/\*\*

\* A very simple CSV writer released under a commercial-friendly license.

\*

\* @author Glen Smith

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\* /opt/cola/permits/1142779499\_1615476397.46/0/opencsv-3-9-sources-2-jar/com/opencsv/CSVWriter.java

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Found in path(s):

\* /opt/cola/permits/1142779499\_1615476397.46/0/opencsv-3-9-sources-2-jar/com/opencsv/CSVReaderBuilder.java

\* /opt/cola/permits/1142779499\_1615476397.46/0/opencsv-3-9-sources-2-jar/com/opencsv/CSVParserBuilder.java

\* /opt/cola/permits/1142779499\_1615476397.46/0/opencsv-3-9-sources-2-jar/com/opencsv/ResultSetHelperService.java

\* /opt/cola/permits/1142779499\_1615476397.46/0/opencsv-3-9-sources-2-jar/com/opencsv/ResultSetHelper.java

# 1.760 passay 1.6.0

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# 1.761 spring-session-data-redis

## 2.3.0.RELEASE

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Found in path(s):

- \* /opt/cola/permits/1142784496\_1615476457.36/0/spring-session-data-redis-2-3-0-release-sources-1-jar/org/springframework/session/data/redis/RedisSessionMapper.java
  - \* /opt/cola/permits/1142784496\_1615476457.36/0/spring-session-data-redis-2-3-0-release-sources-1-jar/org/springframework/session/data/redis/config/annotation/SpringSessionRedisOperations.java
  - \*
    - /opt/cola/permits/1142784496\_1615476457.36/0/spring-session-data-redis-2-3-0-release-sources-1-jar/org/springframework/session/data/redis/RedisIndexedSessionRepository.java
    - \* /opt/cola/permits/1142784496\_1615476457.36/0/spring-session-data-redis-2-3-0-release-sources-1-jar/org/springframework/session/data/redis/ReactiveRedisOperationsSessionRepository.java
    - \* /opt/cola/permits/1142784496\_1615476457.36/0/spring-session-data-redis-2-3-0-release-sources-1-jar/org/springframework/session/data/redis/RedisSessionRepository.java
    - \* /opt/cola/permits/1142784496\_1615476457.36/0/spring-session-data-redis-2-3-0-release-sources-1-jar/org/springframework/session/data/redis/RedisFlushMode.java
    - \* /opt/cola/permits/1142784496\_1615476457.36/0/spring-session-data-redis-2-3-0-release-sources-1-jar/org/springframework/session/data/redis/config/annotation/web/http/EnableRedisHttpSession.java
    - \* /opt/cola/permits/1142784496\_1615476457.36/0/spring-session-data-redis-2-3-0-release-sources-1-jar/org/springframework/session/data/redis/config/annotation/web/server/EnableRedisWebSession.java
    - \*
      - /opt/cola/permits/1142784496\_1615476457.36/0/spring-session-data-redis-2-3-0-release-sources-1-jar/org/springframework/session/data/redis/RedisSessionExpirationPolicy.java
      - \* /opt/cola/permits/1142784496\_1615476457.36/0/spring-session-data-redis-2-3-0-release-sources-1-jar/org/springframework/session/data/redis/config/annotation/web/server/RedisWebSessionConfiguration.java
      - \* /opt/cola/permits/1142784496\_1615476457.36/0/spring-session-data-redis-2-3-0-release-sources-1-jar/org/springframework/session/data/redis/RedisOperationsSessionRepository.java
      - \* /opt/cola/permits/1142784496\_1615476457.36/0/spring-session-data-redis-2-3-0-release-sources-1-jar/org/springframework/session/data/redis/config/annotation/SpringSessionRedisConnectionFactory.java
      - \* /opt/cola/permits/1142784496\_1615476457.36/0/spring-session-data-redis-2-3-0-release-sources-1-jar/org/springframework/session/data/redis/config/ConfigureNotifyKeyspaceEventsAction.java
      - \*
        - /opt/cola/permits/1142784496\_1615476457.36/0/spring-session-data-redis-2-3-0-release-sources-1-jar/org/springframework/session/data/redis/config/annotation/web/http/RedisHttpSessionConfiguration.java
        - \* /opt/cola/permits/1142784496\_1615476457.36/0/spring-session-data-redis-2-3-0-release-sources-1-jar/org/springframework/session/data/redis/ReactiveRedisSessionRepository.java
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*/opt/cola/permits/1142784496_1615476457.36/0/spring-session-data-redis-2-3-0-release-sources-1-
jar/org/springframework/session/data/redis/config/ConfigureRedisAction.java
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## 1.762 spring-boot-autoconfigure

### 2.2.12.RELEASE

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jar/org/springframework/boot/autoconfigure/data/cassandra/CassandraRepositoriesRegistrar.java
*/opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/cache/JCachePropertiesCustomizer.java
*
*/opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/flyway/FlywaySchemaManagementProvider.java
```

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/flyway/FlywayMigrationInitializer.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/session/SessionStoreMappings.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/ldap/package-info.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/security/saml2/Saml2RelyingPartyProperties.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/h2/H2ConsoleAutoConfiguration.java

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/opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/AutoConfigurationImportFilter.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/session/AbstractSessionCondition.java

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/opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/web/ResourceProperties.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/couchbase/CouchbaseConfigurerAdapterConfiguration.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/security/oauth2/client/reactive/package-info.java

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\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/aop/package-info.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/quartz/QuartzAutoConfiguration.java

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\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/websocket/servlet/WebSocketServletAutoConfiguration.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/session/SessionRepositoryUnavailableException.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/thymeleaf/ThymeleafProperties.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/security/oauth2/resource/servlet/package-info.java

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/opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/security/oauth2/resource/servlet/OAuth2ResourceServerOpaqueToken



Configuration.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jooq/JooqAutoConfiguration.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/web/reactive/function/client/package-info.java

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\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/security/servlet/StaticResourceRequest.java

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\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jdbc/JndiDataSourceAutoConfiguration.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jdbc/package-info.java

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 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/webservices/package-info.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/websocket/reactive/TomcatWebSocketReactiveWebServerCustomizer.java  
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 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/redis/LettuceClientConfigurationBuilderCustomizer.java

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jar/org/springframework/boot/autoconfigure/websocket/reactive/WebSocketReactiveAutoConfiguration.java
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\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/session/RedisSessionProperties.java  
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\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/elasticsearch/rest/RestClientBuilderCustomizer.java  
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\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/cache/NoOpCacheConfiguration.java  
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ava  
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jar/org/springframework/boot/autoconfigure/condition/OnResourceCondition.java  
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/opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/condition/ConditionOutcome.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/jms/activemq/ActiveMQConnectionFactoryFactory.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/template/AbstractTemplateViewResolverProperties.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/data/redis/JedisClientConfigurationBuilderCustomizer.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/web/reactive/package-info.java  
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/opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/kafka/package-info.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/orm/jpa/JpaProperties.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/session/package-info.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/amqp/RetryTemplateFactory.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/influx/InfluxDbAutoConfiguration.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/dao/PersistenceExceptionTranslationAutoConfiguration.java  
\*  
/opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/condition/OnJavaCondition.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/freemarker/package-info.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/codecs/CodecProperties.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/orm/jpa/HibernateJpaConfiguration.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-

jar/org/springframework/boot/autoconfigure/jackson/Jackson2ObjectMapperBuilderCustomizer.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/web/reactive/ReactiveWebServerFactoryCustomizer.java  
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/opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/security/oauth2/resource/package-info.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
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\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
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\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/data/jdbc/JdbcRepositoriesRegistrar.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/condition/ConditionalOnCloudPlatform.java  
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/opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
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\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/orm/jpa/HibernateSettings.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/couchbase/OnBootstrapHostsCondition.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
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\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/websocket/reactive/package-info.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/session/ReactiveSessionCondition.java  
\*  
/opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/condition/ConditionalOnMissingBean.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
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\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
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\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/data/solr/package-info.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/session/JdbcSessionProperties.java  
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/opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/batch/JobExecutionExitCodeGenerator.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/context/PropertyPlaceholderAutoConfiguration.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/security/oauth2/client/servlet/OAuth2ClientAutoConfiguration.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/kafka/ConcurrentKafkaListenerContainerFactoryConfigurer.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-

jar/org/springframework/boot/autoconfigure/context/package-info.java  
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/opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/web/servlet/ServletWebServerFactoryAutoConfiguration.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/session/NonUniqueSessionRepositoryException.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jdbc/HikariDriverConfigurationFailureAnalyzer.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/security/servlet/SpringBootWebSecurityConfiguration.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/domain/EntityScan.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/mongo/embedded/DownloadConfigBuilderCustomizer.java  
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/opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jms/artemis/ArtemisConnectionFactoryFactory.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/cache/JCacheManagerCustomizer.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/couchbase/CouchbaseRepositoriesAutoConfiguration.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/elasticsearch/rest/RestClientConfigurations.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/elasticsearch/rest/RestClientAutoConfiguration.java  
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/opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/admin/SpringApplicationAdminJmxAutoConfiguration.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/template/TemplateAvailabilityProvider.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/aop/AopAutoConfiguration.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/rest/SpringBootRepositoryRestConfigurer.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/mongo/MongoAutoConfiguration.java  
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/opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/logging/ConditionEvaluationReportMessage.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/ldap/LdapRepositoriesRegistrar.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/condition/OnWebApplicationCondition.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/condition/ConditionalOnExpression.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/AutoConfigurationSorter.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-



jar/org/springframework/boot/autoconfigure/AutoConfigurationImportSelector.java  
\*  
/opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/flyway/package-info.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/amqp/AbstractRabbitListenerContainerFactoryConfigurer.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/ldap/embedded/EmbeddedLdapProperties.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/orm/jpa/HibernatePropertiesCustomizer.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/security/saml2/package-info.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/mustache/MustacheResourceTemplateLoader.java  
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/opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/condition/OnPropertyCondition.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/jooq/JooqProperties.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/websocket/servlet/TomcatWebSocketServletWebServerCustomizer.java  
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/opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/mongo/package-info.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/data/mongo/MongoRepositoriesAutoConfiguration.java  
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/opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/jms/artemis/ArtemisMode.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/security/SecurityDataConfiguration.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/jms/JmsAnnotationDrivenConfiguration.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/security/oauth2/resource/servlet/OAuth2ResourceServerAutoConfiguration.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
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\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/condition/ConditionalOnProperty.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/flyway/FlywayMigrationScriptMissingException.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/domain/EntityScanner.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-

jar/org/springframework/boot/autoconfigure/data/redis/RedisConnectionConfiguration.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/elasticsearch/jest/JestAutoConfiguration.java  
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 /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/session/JdbcSessionDataSourceInitializer.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/data/redis/JedisConnectionConfiguration.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/jms/artemis/ArtemisXAConnectionFactoryConfiguration.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/gson/GsonAutoConfiguration.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/data/neo4j/Neo4jProperties.java  
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 /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/codec/package-info.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/jmx/JmxAutoConfiguration.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/web/reactive/ResourceChainResourceHandlerRegistrationCustomizer.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/quartz/QuartzDataSourceInitializer.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/security/oauth2/client/servlet/OAuth2WebSecurityConfiguration.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/condition/ConditionalOnSingleCandidate.java  
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 /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/cache/RedisCacheManagerBuilderCustomizer.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
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 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/domain/EntityScanPackages.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/jms/JmsPoolConnectionFactoryProperties.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/jdbc/NamedParameterJdbcTemplateConfiguration.java  
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 /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/validation/ValidationAutoConfiguration.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/security/StaticResourceLocation.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/security/reactive/ReactiveSecurityAutoConfiguration.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/transaction/jta/AtomikosJtaConfiguration.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/mail/MailProperties.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/dao/package-info.java

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/opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/kafka/KafkaAutoConfiguration.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/domain/package-info.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/elasticsearch/jest/package-info.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/security/SecurityProperties.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/template/package-info.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/SpringBootApplication.java

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\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/context/MessageSourceProperties.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/web/reactive/HttpHandlerAutoConfiguration.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/groovy/template/GroovyTemplateAvailabilityProvider.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/elasticsearch/rest/RestClientProperties.java

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\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/condition/ResourceCondition.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/redis/RedisProperties.java

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\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/cassandra/CassandraReactiveDataAutoConfiguration.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/jms/artemis/package-info.java

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\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/mongo/embedded/EmbeddedMongoProperties.java

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\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/couchbase/package-info.java

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\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/template/PathBasedTemplateAvailabilityProvider.java

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/opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/task/TaskSchedulingAutoConfiguration.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/cache/CacheConfigurations.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/cassandra/CassandraRepositoriesAutoConfiguration.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/data/ConditionalOnRepositoryType.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/security/saml2/RegistrationConfiguredCondition.java

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/opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/websocket/servlet/JettyWebSocketServletWebServerCustomizer.java

\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-



jar/org/springframework/boot/autoconfigure/security/reactive/ReactiveUserDetailsServiceAutoConfiguration.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/orm/jpa/EntityManagerFactoryBuilderCustomizer.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/data/neo4j/Neo4jRepositoriesRegistrar.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/batch/BatchAutoConfiguration.java  
\*  
/opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/freemarker/FreeMarkerNonWebConfiguration.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/data/rest/RepositoryRestMvcAutoConfiguration.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/web/servlet/error/package-info.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/jersey/ResourceConfigCustomizer.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/AutoConfigurationMetadata.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/jersey/JerseyProperties.java  
\*  
/opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/cassandra/ClusterFactory.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/hazelcast/HazelcastProperties.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/web/servlet/DispatcherServletPath.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/jdbc/DataSourceBeanCreationFailureAnalyzer.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/hazelcast/HazelcastClientConfiguration.java  
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/opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/web/servlet/error/AbstractErrorController.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/condition/ConditionalOnResource.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/mongo/MongoClientSettingsBuilderCustomizer.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/security/package-info.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/cache/CacheProperties.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/integration/package-info.java  
\*  
/opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
jar/org/springframework/boot/autoconfigure/batch/BatchProperties.java  
\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-

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jar/org/springframework/boot/autoconfigure/data/rest/package-info.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/mongo/MongoReactiveAutoConfiguration.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/integration/IntegrationDataSourceInitializer.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/elasticsearch/ElasticsearchAutoConfiguration.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/http/HttpMessageConverters.java
*
/opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/webservices/WebServicesProperties.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/elasticsearch/ReactiveRestClientAutoConfiguration.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jersey/package-info.java
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* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/orm/jpa/HibernateDefaultDdlAutoProvider.java
*
/opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jdbc/DataSourceInitializerPostProcessor.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/servlet/error/ErrorHandler.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/package-info.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
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* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/liquibase/LiquibaseDataSource.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/hateoas/package-info.java
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/opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jms/artemis/ArtemisNoOpBindingRegistry.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/mongo/MongoRepositoriesRegistrar.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/transaction/jta/JtaAutoConfiguration.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jdbc/DataSourceTransactionManagerAutoConfiguration.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/batch/BatchDataSource.java
*
/opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/solr/package-info.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-

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jar/org/springframework/boot/autoconfigure/AutoConfigurationImportListener.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/condition/OnClassCondition.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/jsonb/JsonbAutoConfiguration.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/elasticsearch/jest/HttpClientConfigBuilderCustomizer.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/transaction/PlatformTransactionManagerCustomizer.java  
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 /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/transaction/package-info.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/cache/CacheManagerCustomizer.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/condition/OnCloudPlatformCondition.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/mustache/package-info.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/web/ErrorProperties.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/web/client/package-info.java  
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 /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/jdbc/metadata/DataSourcePoolMetadataProvidersConfiguration.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/freemarker/FreeMarkerReactiveWebConfiguration.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/cache/CacheAutoConfiguration.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/jdbc/JdbcTemplateConfiguration.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/security/oauth2/client/ClientsConfiguredCondition.java  
 \*  
 /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/jdbc/JdbcOperationsDependsOnPostProcessor.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/data/elasticsearch/ElasticsearchDataConfiguration.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/orm/jpa/package-info.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/data/neo4j/Neo4jBookmarkManagementConfiguration.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/data/cassandra/package-info.java  
 \*  
 /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/jdbc/DataSourceConfiguration.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-

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jar/org/springframework/boot/autoconfigure/rsocket/RSocketProperties.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/servlet/ServletWebServerFactoryCustomizer.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/mongo/MongoDataConfiguration.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/solr/SolrRepositoriesAutoConfiguration.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/condition/SpringBootCondition.java
*
/opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/influx/InfluxDbProperties.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/amqp/RabbitAnnotationDrivenConfiguration.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/servlet/UserDetailsServiceAutoConfiguration.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jdbc/DataSourceSchemaCreatedEvent.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/oauth2/resource/KeyValueCondition.java
*
/opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/freemarker/FreeMarkerServletWebConfiguration.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/data/web/SpringDataWebProperties.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/jms/artemis/ArtemisAutoConfiguration.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/hazelcast/HazelcastConfigResourceCondition.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/flyway/FlywayDataSource.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/integration/IntegrationAutoConfiguration.java
*
/opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/integration/IntegrationProperties.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/cache/HazelcastJCacheCustomizationConfiguration.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/rsocket/package-info.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/batch/JobExecutionEvent.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/reactive/ReactiveWebServerFactoryAutoConfiguration.java
*
/opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/web/servlet/JspTemplateAvailabilityProvider.java
* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-

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jar/org/springframework/boot/autoconfigure/jdbc/NamedParameterJdbcOperationsDependsOnPostProcessor.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/web/servlet/MultipartProperties.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/security/saml2/Saml2LoginConfiguration.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/jms/package-info.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/ImportAutoConfigurationImportSelector.java  
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 /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/data/couchbase/CouchbaseReactiveDataAutoConfiguration.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/data/couchbase/CouchbaseRepositoriesRegistrar.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/condition/ConditionalOnNotWebApplication.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/hazelcast/HazelcastClientFactory.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/jms/artemis/ArtemisEmbeddedServerConfiguration.java  
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 /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
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 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/AutoConfigurationImportEvent.java  
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 jar/org/springframework/boot/autoconfigure/data/cassandra/CassandraDataAutoConfiguration.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/ldap/package-info.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/jms/activemq/ActiveMQConnectionFactoryCustomizer.java  
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 /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/cache/EhCacheCacheConfiguration.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
 jar/org/springframework/boot/autoconfigure/gson/GsonBuilderCustomizer.java  
 \* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-  
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Found in path(s):

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* /opt/cola/permits/1142784505_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-
jar/org/springframework/boot/autoconfigure/security/oauth2/resource/reactive/ReactiveOAuth2ResourceServerJwk
Configuration.java
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jar/org/springframework/boot/autoconfigure/ldap/LdapProperties.java

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\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/security/oauth2/resource/OAuth2ResourceServerProperties.java  
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\* /opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/liquibase/LiquibaseProperties.java  
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\*  
/opt/cola/permits/1142784505\_1615476455.45/0/spring-boot-autoconfigure-2-2-12-release-sources-1-jar/org/springframework/boot/autoconfigure/amqp/RabbitProperties.java  
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- >>> JOpt Simple (net.sf.jopt-simple:jopt-simple)
- >>> ASM 4.0 (org.ow2.asm:asm)

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- >>> Apache Commons Codec (commons-codec:commons-codec)
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- >>> Apache HttpCore (org.apache.httpcomponents:httpcore)
- >>> Plexus Cipher: encryption/decryption Component (org.sonatype.plexus:plexus-cipher)
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- >>> Apache Groovy (org.codehaus.groovy:groovy)
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\* /opt/cola/permits/1124209859\_1611010290.04/0/spring-boot-starter-logging-2-2-12-release-sources-jar/META-INF/maven/org.springframework.boot/spring-boot-starter-logging/pom.xml

# 1.765 spring-boot-starter 2.2.12.RELEASE

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Found in path(s):

\* /opt/cola/permits/1142785769\_1615476677.6/0/spring-boot-starter-2-2-12-release-sources-2-jar/META-INF/maven/org.springframework.boot/spring-boot-starter/pom.xml

# 1.766 spring-boot-starter-validation

## 2.2.12.RELEASE

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Found in path(s):

\* /opt/cola/permits/1124209892\_1611010268.46/0/spring-boot-starter-validation-2-2-12-release-sources-jar/META-INF/maven/org.springframework.boot/spring-boot-starter-validation/pom.xml

# 1.767 spring-session-core 2.3.0.RELEASE

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- \* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/web/http/CookieSerializer.java
- \* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/web/http/OncePerRequestFilter.java
- \*
- /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/web/http/HttpSessionAdapter.java
- \* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/config/annotation/web/http/SpringHttpSessionConfiguration.java
- \* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/ReactiveSessionRepository.java
- \* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/config/annotation/web/server/SpringWebSessionConfiguration.java
- \* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/DelegatingIndexResolver.java
- \* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/SingleIndexResolver.java
- \* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/events/AbstractSessionEvent.java
- \*
- /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/config/SessionRepositoryCustomizer.java
- \* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/web/http/SessionRepositoryFilter.java
- \* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/ReactiveMapSessionRepository.java
- \* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/web/context/AbstractHttpSessionApplicationInitializer.java
- \* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/security/web/authentication/SpringSessionRememberMeServices.java
- \* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/web/http/DefaultCookieSerializer.java
- \*
- /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/Session.java
- \* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/web/server/session/SpringSessionWebSessionStore.java
- \* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/web/http/OnCommittedResponseWrapper.java
- \* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/web/http/CookieHttpSessionIdResolver.java
- \* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/web/socket/handler/WebSocketRegistryListener.java
- \* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/PrincipalNameIndexResolver.java
- \*

/opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/web/socket/server/SessionRepositoryMessageInterceptor.java  
\* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/web/http/HeaderHttpSessionIdResolver.java  
\* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/config/annotation/web/http/EnableSpringHttpSession.java  
\* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/FlushMode.java  
\* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/IndexResolver.java  
\* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/web/socket/config/annotation/AbstractSessionWebSocketMessageBrokerConfigur  
r.java  
\*  
/opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/SaveMode.java  
\* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/FindByIndexNameSessionRepository.java  
\* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/SessionRepository.java  
\* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/web/socket/events/SessionConnectEvent.java  
\* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/config/annotation/web/server/EnableSpringWebSession.java  
\* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/config/ReactiveSessionRepositoryCustomizer.java  
\*  
/opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/security/SpringSessionBackedSessionRegistry.java  
\* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/MapSession.java  
\* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/web/http/SessionEventHttpSessionListenerAdapter.java  
\* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/security/SpringSessionBackedSessionInformation.java  
\* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/web/http/HttpSessionIdResolver.java  
\* /opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/web/socket/handler/WebSocketConnectHandlerDecoratorFactory.java  
\*  
/opt/cola/permits/1096710078\_1601880219.58/0/spring-session-core-2-3-0-release-sources-jar/org/springframework/session/MapSessionRepository.java  
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Found in path(s):

```
* /opt/cola/permits/1096710078_1601880219.58/0/spring-session-core-2-3-0-release-sources-
jar/org/springframework/session/events/SessionDeletedEvent.java
* /opt/cola/permits/1096710078_1601880219.58/0/spring-session-core-2-3-0-release-sources-
jar/org/springframework/session/events/SessionExpiredEvent.java
*
/opt/cola/permits/1096710078_1601880219.58/0/spring-session-core-2-3-0-release-sources-
jar/org/springframework/session/events/SessionCreatedEvent.java
* /opt/cola/permits/1096710078_1601880219.58/0/spring-session-core-2-3-0-release-sources-
jar/org/springframework/session/events/SessionDestroyedEvent.java
* /opt/cola/permits/1096710078_1601880219.58/0/spring-session-core-2-3-0-release-sources-
jar/org/springframework/session/web/server/session/package-info.java
```

# 1.768 aerogear-otp-java 1.0.0

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Found in path(s):

```
* /opt/cola/permits/1142787978_1615476558.42/0/aerogear-otp-java-1-0-0-sources-1-
jar/org/jboss/aerogear/security/otp/Totp.java
* /opt/cola/permits/1142787978_1615476558.42/0/aerogear-otp-java-1-0-0-sources-1-
jar/org/jboss/aerogear/security/otp/api/Hash.java
*
/opt/cola/permits/1142787978_1615476558.42/0/aerogear-otp-java-1-0-0-sources-1-
jar/org/jboss/aerogear/security/otp/api/Clock.java
* /opt/cola/permits/1142787978_1615476558.42/0/aerogear-otp-java-1-0-0-sources-1-
jar/org/jboss/aerogear/security/otp/api/Digits.java
* /opt/cola/permits/1142787978_1615476558.42/0/aerogear-otp-java-1-0-0-sources-1-
jar/org/jboss/aerogear/security/otp/api/Hmac.java
```

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* /opt/cola/permits/1142787978_1615476558.42/0/aerogear-otp-java-1-0-0-sources-1-
jar/org/jboss/aerogear/security/otp/api/Base32.java
```

## 1.769 gson-fire 1.8.3

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# 1.770 spring-cloud-bus 2.2.2.RELEASE

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# 1.771 spring-cloud-starter-bus-kafka

## 2.2.2.RELEASE

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\* /opt/cola/permits/1096698726\_1607390342.64/0/spring-cloud-starter-bus-kafka-2-2-2-release-jar/META-INF/maven/org.springframework.cloud/spring-cloud-starter-bus-kafka/pom.xml

# 1.772 spring-websocket 5.2.7.RELEASE

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```
* /opt/cola/permits/1142799398_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-
jar/org/springframework/web/socket/handler/PerConnectionWebSocketHandler.java
* /opt/cola/permits/1142799398_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-
jar/org/springframework/web/socket/sockjs/SockJsService.java
*
/opt/cola/permits/1142799398_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-
jar/org/springframework/web/socket/server/support/OriginHandshakeInterceptor.java
* /opt/cola/permits/1142799398_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-
jar/org/springframework/web/socket/adapters/standard/StandardWebSocketSession.java
* /opt/cola/permits/1142799398_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-
jar/org/springframework/web/socket/sockjs/transport/SockJsServiceConfig.java
* /opt/cola/permits/1142799398_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-
jar/org/springframework/web/socket/sockjs/frame/SockJsFrame.java
* /opt/cola/permits/1142799398_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-
jar/org/springframework/web/socket/handler/ConcurrentWebSocketSessionDecorator.java
* /opt/cola/permits/1142799398_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-
jar/org/springframework/web/socket/client/WebSocketConnectionManager.java
*
/opt/cola/permits/1142799398_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-
jar/org/springframework/web/socket/config/annotation/WebSocketHandlerRegistration.java
* /opt/cola/permits/1142799398_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-
jar/org/springframework/web/socket/client/ConnectionManagerSupport.java
* /opt/cola/permits/1142799398_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-
jar/org/springframework/web/socket/sockjs/frame/AbstractSockJsMessageCodec.java
```

\* /opt/cola/permits/1142799398\_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-jar/org/springframework/web/socket/config/annotation/WebSocketHandlerRegistry.java  
 \* /opt/cola/permits/1142799398\_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-jar/org/springframework/web/socket/config/annotation/WebSocketConfigurationSupport.java  
 \* /opt/cola/permits/1142799398\_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-jar/org/springframework/web/socket/client/standard/StandardWebSocketClient.java  
 \*  
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\* /opt/cola/permits/1142799398\_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-jar/org/springframework/web/socket/sockjs/client/InfoReceiver.java  
\* /opt/cola/permits/1142799398\_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-jar/org/springframework/web/socket/messaging/SessionUnsubscribeEvent.java  
\* /opt/cola/permits/1142799398\_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-jar/org/springframework/web/socket/server/standard/ServletServerContainerFactoryBean.java  
\* /opt/cola/permits/1142799398\_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-jar/org/springframework/web/socket/PongMessage.java  
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\* /opt/cola/permits/1142799398\_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-jar/org/springframework/web/socket/sockjs/transport/handler/AbstractHttpSendingTransportHandler.java  
\* /opt/cola/permits/1142799398\_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-jar/org/springframework/web/socket/sockjs/client/RestTemplateXhrTransport.java  
\*  
/opt/cola/permits/1142799398\_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-jar/org/springframework/web/socket/adapters/standard/ConvertingEncoderDecoderSupport.java  
\* /opt/cola/permits/1142799398\_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-jar/org/springframework/web/socket/sockjs/client/UndertowXhrTransport.java  
\* /opt/cola/permits/1142799398\_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-jar/org/springframework/web/socket/server/jetty/JettyRequestUpgradeStrategy.java  
\* /opt/cola/permits/1142799398\_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-jar/org/springframework/web/socket/sockjs/transport/session/AbstractSockJsSession.java  
\* /opt/cola/permits/1142799398\_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-jar/org/springframework/web/socket/sockjs/client/JettyXhrTransport.java  
\* /opt/cola/permits/1142799398\_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-jar/org/springframework/web/socket/WebSocketHttpHeaders.java  
\*  
/opt/cola/permits/1142799398\_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-jar/org/springframework/web/socket/messaging/StompSubProtocolHandler.java

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\* /opt/cola/permits/1142799398\_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-jar/org/springframework/web/socket/sockjs/frame/SocketJsMessageCodec.java

\*

/opt/cola/permits/1142799398\_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-jar/org/springframework/web/socket/server/HandshakeHandler.java

\* /opt/cola/permits/1142799398\_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-jar/org/springframework/web/socket/server/HandshakeFailureException.java

\* /opt/cola/permits/1142799398\_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-jar/org/springframework/web/socket/handler/WebSocketHandlerDecoratorFactory.java

\* /opt/cola/permits/1142799398\_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-jar/org/springframework/web/socket/handler/LoggingWebSocketHandlerDecorator.java

\* /opt/cola/permits/1142799398\_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-jar/org/springframework/web/socket/sockjs/frame/SocketJsFrameType.java

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\* /opt/cola/permits/1142799398\_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-jar/org/springframework/web/socket/sockjs/frame/SocketJsFrameFormat.java

\* /opt/cola/permits/1142799398\_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-jar/org/springframework/web/socket/handler/AbstractWebSocketHandler.java

\*

/opt/cola/permits/1142799398\_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-jar/org/springframework/web/socket/sockjs/frame/DefaultSocketJsFrameFormat.java

\* /opt/cola/permits/1142799398\_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-jar/org/springframework/web/socket/SubProtocolCapable.java

\* /opt/cola/permits/1142799398\_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-jar/org/springframework/web/socket/sockjs/transport/handler/XhrReceivingTransportHandler.java

```
* /opt/cola/permits/1142799398_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-
jar/org/springframework/web/socket/sockjs/SockJsMessageDeliveryException.java
* /opt/cola/permits/1142799398_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-
jar/org/springframework/web/socket/client/standard/WebSocketContainerFactoryBean.java
* /opt/cola/permits/1142799398_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-
jar/org/springframework/web/socket/config/WebSocketNamespaceHandler.java
*
/opt/cola/permits/1142799398_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-
jar/org/springframework/web/socket/client/WebSocketClient.java
* /opt/cola/permits/1142799398_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-
jar/org/springframework/web/socket/handler/WebSocketHandlerDecorator.java
* /opt/cola/permits/1142799398_1615477317.51/0/spring-websocket-5-2-7-release-sources-1-
jar/org/springframework/web/socket/WebSocketHandler.java
```

## 1.773 bn.js 5.2.0

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## 1.774 events 3.3.0

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# 1.775 rxjs 6.6.6

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```

```

s=this.jpoint(null,null,null),c=this.jpoint(null,null,null),h=t;0<h;h--
){for(n=0;n<d.length;n++){f=d[n]===h?c=c.mixedAdd(i.points[n]):f===
h&&(c=c.mixedAdd(i.points[n].neg()));s=s.add(c)}return s.toP()},d.prototype._wnafMul=function(e,t){for(var
i=e._getNAFPoints(4),r=i.wnd,f=i.points,d=x(t,r,this._bitLength),n=this.jpoint(null,null,null),a=d.length-1;0<=a;a--
){for(var s=0;0<=a&&0===d[a];a--)s++;if(0<=a&&s++,n=n.dblp(s),a<0)break;var
c=d[a];o(0!==(c,n="affine"===e.type?0<c?n.mixedAdd(f[-c-1]>>1):n.mixedAdd(f[-c-1]>>1]).neg():0<c?n.add(f[-c-
1]>>1]):n.add(f[-c-
1]>>1]).neg())}return "affine"===e.type?n.toP():n},d.prototype._wnafMulAdd=function(e,t,i,r,f){for(var
d,n=this._wnafT1,a=this._wnafT2,s=this._wnafT3,c=0,h=0;h<r;h++){var
o=(d=t[h])._getNAFPoints(e);n[h]=o.wnd,a[h]=o.points}for(h=r-1;1<=h;h-=2){var
u=h-1,b=h;if(1===n[u]&&1===n[b]){var
l=[t[u],null,null,t[b]];0===t[u].y.cmp(t[b].y)?(l[1]=t[u].add(t[b]),l[2]=t[u].toJ().mixedAdd(t[b].neg())):0===t[u].y.c
mp(t[b].y.redNeg())?(l[1]=t[u].toJ().mixedAdd(t[b]),l[2]=t[u].add(t[b].neg())):(l[1]=t[u].toJ().mixedAdd(t[b]),l[2]=t[
u].toJ().mixedAdd(t[b].neg()));var p=[-3,-1,-5,-7,0,7,5,1,3],m=l(i[u],i[b]),c=Math.max(m[0].length,c);for(s[u]=new
Array(c),s[b]=new Array(c),_=0;_<c;_++){var
v=0|m[0][_],g=0|m[1][_];s[u][_]=p[3*(1+v)+(1+g)],s[b][_]=0,a[u]=1} else
s[u]=x(i[u],n[u],this._bitLength),s[b]=x(i[b],n[b],this._bitLength),c=Math.max(s[u].length,c),c=Math.max(s[b].lengt
h,c)}var y=this.jpoint(null,null,null),M=this._wnafT4;for(h=c;0<=h;h--){for(var w=0;0<=h;h++){for(var
S=!0,_=0;_<r;_++)M[_]=0|s[_][h],0!==(M[_]&&(S=!1));if(!S)break;w++,h--
}if(0<=h&&w++,y=y.dblp(w),h<0)break;for(_=0;_<r;_++){var A=M[_];0!==(A&&(0<A?d=a[_][A-
1]>>1]:A<0&&(d=a[_][-A-
1]>>1]).neg()),y="affine"===d.type?y.mixedAdd(d):y.add(d)}}for(h=0;h<r;h++)a[h]=null;return
f?y:y.toP()},(d.BasePoint=n).prototype.eq=function(){throw new Error("Not
implemented")},n.prototype.validate=function(){return
this.curve.validate(this)},d.prototype.decodePoint=function(e,t){e=f.toArray(e,t);t=this.p.byteLength();if((4===e[0]
|6===e[0]|7===e[0])&&e.length-1==2*t)return 6===e[0]?o(e[e.length-1]%2==0):7===e[0]&&o(e[e.length-
1]%2==1),this.point(e.slice(1,1+t),e.slice(1+t,1+2*t));if((2===e[0]|3===e[0])&&e.length-1===t)return
this.pointFromX(e.slice(1,1+t),3===e[0]);throw new Error("Unknown point
format")},n.prototype.encodeCompressed=function(e){return
this.encode(e,10)},n.prototype._encode=function(e){var
t=this.curve.p.byteLength(),i=this.getX().toArray("be",t);return
e?[this.getY().isEven()?2:3].concat(i):[4].concat(i,this.getY().toArray("be",t))},n.prototype.encode=function(e,t){ret
urn f.encode(this._encode(t),e)},n.prototype.precompute=function(e){if(this.precomputed)return this;var
t={doubles:null,naf:null,beta:null};return
t.naf=this._getNAFPoints(8),t.doubles=this._getDoubles(4,e),t.beta=this._getBeta(),this.precomputed=t,this},n.proto
type._hasDoubles=function(e){if(!this.precomputed)return !1;var
t=this.precomputed.doubles;return !!t&&t.points.length>=Math.ceil((e.bitLength()+1)/t.step)},n.prototype._getDoubl
es=function(e,t){if(this.precomputed&&this.precomputed.doubles)return this.precomputed.doubles;for(var
i=[this],r=this,f=0;f<t;f+=e){for(var
d=0;d<e;d++)r=r.dbl();i.push(r)}return {step:e,points:i}},n.prototype._getNAFPoints=function(e){if(this.precompute
d&&this.precomputed.naf)return this.precomputed.naf;for(var t=[this],i=(1<<e)-
1,r=1==i?null:this.dbl(),f=1;f<i;f++)t[f]=t[f-
1].add(r);return {wnd:e,points:t}},n.prototype._getBeta=function(){return
null},n.prototype.dblp=function(e){for(var t=this,i=0;i<e;i++)t=t.dbl();return
t}},{"../utils":15,"bn.js":16}],3:[function(e,t,i){"use strict";var
r=e("../utils"),d=e("bn.js"),f=e("inherits"),n=e("../base"),a=r.assert;function
s(e){this.twisted=1!==(0|e.a),this.mOneA=this.twisted&&-
1==(0|e.a),this.extended=this.mOneA,n.call(this,"edwards",e),this.a=new

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d(e.a,16).umod(this.red.m),this.a=this.a.toRed(this.red),this.c=new
d(e.c,16).toRed(this.red),this.c2=this.c.redSqr(),this.d=new
d(e.d,16).toRed(this.red),this.dd=this.d.redAdd(this.d),a!(this.twisted||0===this.c.fromRed().cmpn(1)),this.oneC=1=
=(0|e.c)}function
c(e,t,i,r,f){n.BasePoint.call(this,e,"projective"),null===t&&null===i&&null===r?(this.x=this.curve.zero,this.y=this.
curve.one,this.z=this.curve.one,this.t=this.curve.zero,this.zOne=!0):(this.x=new d(t,16),this.y=new
d(i,16),this.z=r?new d(r,16):this.curve.one,this.t=f&&new
d(f,16),this.x.red||(this.x=this.x.toRed(this.curve.red)),this.y.red||(this.y=this.y.toRed(this.curve.red)),this.z.red||(this.
z=this.z.toRed(this.curve.red)),this.t&&!this.t.red&&(this.t=this.t.toRed(this.curve.red)),this.zOne=this.z===this.cur
ve.one,this.curve.extended&&!this.t&&(this.t=this.x.redMul(this.y),this.zOne||(this.t=this.t.redMul(this.z.redInvm()
))))}f(s,n),(t.exports=s).prototype._mulA=function(e){return
this.mOneA?e.redNeg():this.a.redMul(e)},s.prototype._mulC=function(e){return
this.oneC?e:this.c.redMul(e)},s.prototype.jpoint=function(e,t,i,r){return
this.point(e,t,i,r)},s.prototype.pointFromX=function(e,t){var i=(e=!e=new
d(e,16)).red?e.toRed(this.red):e).redSqr(),r=this.c2.redSub(this.a.redMul(i)),i=this.one.redSub(this.c2.redMul(this.d)
.redMul(i)),r=r.redMul(i.redInvm()),i=i.redSqr();if(0!==(i.redSqr().redSub(r).cmp(this.zero)))throw new
Error("invalid
point");r=i.fromRed().isOdd();return(t&&!r||!t&&r)&&(i=i.redNeg()),this.point(e,i)},s.prototype.pointFromY=funct
ion(e,t){var i=(e=!e=new
d(e,16)).red?e.toRed(this.red):e).redSqr(),r=i.redSub(this.c2),i=i.redMul(this.d).redMul(this.c2).redSub(this.a),r=r.re
dMul(i.redInvm());if(0===r.cmp(this.zero)){if(t)throw new Error("invalid point");return
this.point(this.zero,e)}i=r.redSqr();if(0!==(i.redSqr().redSub(r).cmp(this.zero)))throw new Error("invalid
point");return
i.fromRed().isOdd()!==t&&(i=i.redNeg()),this.point(i,e)},s.prototype.validate=function(e){if(e.isInfinity())return!0;
e.normalize();var
t=e.x.redSqr(),i=e.y.redSqr(),e=t.redMul(this.a).redAdd(i),i=this.c2.redMul(this.one.redAdd(this.d.redMul(t).redMul
(i)));return 0===e.cmp(i)},f(c,n.BasePoint),s.prototype.pointFromJSON=function(e){return
c.fromJSON(this,e)},s.prototype.point=function(e,t,i,r){return new c(this,e,t,i,r)},c.fromJSON=function(e,t){return
new c(e,t[0],t[1],t[2]),c.prototype.inspect=function(){return this.isInfinity()? "<EC Point Infinity>": "<EC Point x:
"+this.x.fromRed().toString(16,2)+" y: "+this.y.fromRed().toString(16,2)+" z:
"+this.z.fromRed().toString(16,2)+">"},c.prototype.isInfinity=function(){return
0===this.x.cmpn(0)&&(0===this.y.cmp(this.z)||this.zOne&&0===this.y.cmp(this.curve.c))},c.prototype._extDbl=f
unction(){var
e=this.x.redSqr(),t=this.y.redSqr(),i=(i=this.z.redSqr()).redIAdd(i),r=this.curve._mulA(e),f=this.x.redAdd(this.y).red
Sqr().redISub(e).redISub(t),d=r.redAdd(t),e=d.redSub(i),i=r.redSub(t),r=f.redMul(e),t=d.redMul(i),i=f.redMul(i),d=
e.redMul(d);return
this.curve.point(r,t,d,i)},c.prototype._projDbl=function(){var
e,t,i,r,f,d,n=this.x.redAdd(this.y).redSqr(),a=this.x.redSqr(),s=this.y.redSqr();return
d=this.curve.twisted?(f=(i=this.curve._mulA(a)).redAdd(s),this.zOne?(e=n.redSub(a).redSub(s).redMul(f.redSub(thi
s.curve.two)),t=f.redMul(i.redSub(s)),f.redSqr().redSub(f).redSub(f)):r=this.z.redSqr(),d=f.redSub(r).redISub(r),e=n
.redSub(a).redISub(s).redMul(d),t=f.redMul(i.redSub(s)),f.redMul(d)):i=a.redAdd(s),r=this.curve._mulC(this.z).re
dSqr(),d=i.redSub(r).redSub(r),e=this.curve._mulC(n.redISub(i)).redMul(d),t=this.curve._mulC(i).redMul(a.redISub
(s)),i.redMul(d),this.curve.point(e,t,d)},c.prototype.dbl=function(){return
this.isInfinity()?this:this.curve.extended?this._extDbl():this._projDbl()},c.prototype._extAdd=function(e){var
t=this.y.redSub(this.x).redMul(e.y.redSub(e.x)),i=this.y.redAdd(this.x).redMul(e.y.redAdd(e.x)),r=this.t.redMul(this
.curve.dd).redMul(e.t),f=this.z.redMul(e.z.redAdd(e.z)),d=i.redSub(t),e=f.redSub(r),f=f.redAdd(r),r=i.redAdd(t),i=d.
redMul(e),t=f.redMul(r),r=d.redMul(r),f=e.redMul(f);return

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this.curve.point(i,t,f,r)},c.prototype._projAdd=function(e){var
t,i=this.z.redMul(e.z),r=i.redSqr(),f=this.x.redMul(e.x),d=this.y.redMul(e.y),n=this.curve.d.redMul(f).redMul(d),a=r
.redSub(n),n=r.redAdd(n),e=this.x.redAdd(this.y).redMul(e.x.redAdd(e.y)).redISub(f).redISub(d),e=i.redMul(a).red
Mul(e),n=this.curve.twisted?(t=i.redMul(n).redMul(d.redSub(this.curve._mulA(f))),a.redMul(n):(t=i.redMul(n).red
Mul(d.redSub(f)),this.curve._mulC(a).redMul(n));return this.curve.point(e,t,n)},c.prototype.add=function(e){return
this.isInfinity()?e:e.isInfinity()?this:this.curve.extended?this._extAdd(e):this._projAdd(e)},c.prototype.mul=function
(e){return
this._hasDoubles(e)?this.curve._fixedNafMul(this,e):this.curve._wnafMul(this,e)},c.prototype.mulAdd=function(e,t
,i){return this.curve._wnafMulAdd(1,[this,t],[e,i],2,!1)},c.prototype.jmulAdd=function(e,t,i){return
this.curve._wnafMulAdd(1,[this,t],[e,i],2,!0)},c.prototype.normalize=function(){if(this.zOne)return this;var
e=this.z.redInvm();return
this.x=this.x.redMul(e),this.y=this.y.redMul(e),this.t&&(this.t=this.t.redMul(e)),this.z=this.curve.one,this.zOne=!0,t
his},c.prototype.neg=function(){return
this.curve.point(this.x.redNeg(),this.y,this.z,this.t&&this.t.redNeg())},c.prototype.getX=function(){return
this.normalize(),this.x.fromRed()},c.prototype.getY=function(){return
this.normalize(),this.y.fromRed()},c.prototype.eq=function(e){return
this===e||0===this.getX().cmp(e.getX())&&0===this.getY().cmp(e.getY())},c.prototype.eqXToP=function(e){var
t=e.toRed(this.curve.red).redMul(this.z);if(0===this.x.cmp(t))return!0;for(var
i=e.clone(),r=this.curve.redN.redMul(this.z);){if(i.iadd(this.curve.n),0<=i.cmp(this.curve.p))return!1;if(t.redIAdd(r
),0===this.x.cmp(t))return!0}},c.prototype.toP=c.prototype.normalize,c.prototype.mixedAdd=c.prototype.add},{"/.u
tils":15,"/base":2,"bn.js":16,inherits:32}],4:[function(e,t,i){"use
strict";i.base=e("/base"),i.short=e("/short"),i.mont=e("/mont"),i.edwards=e("/edwards")},{"/base":2,"/edwards":3
,"/mont":5,"/short":6}],5:[function(e,t,i){"use strict";var
r=e("bn.js"),f=e("inherits"),d=e("/base"),n=e("/utils");function a(e){d.call(this,"mont",e),this.a=new
r(e.a,16).toRed(this.red),this.b=new r(e.b,16).toRed(this.red),this.i4=new
r(4).toRed(this.red).redInvm(),this.two=new
r(2).toRed(this.red),this.a24=this.i4.redMul(this.a.redAdd(this.two))}function
s(e,t,i){d.BasePoint.call(this,e,"projective"),null===t&&null===i?(this.x=this.curve.one,this.z=this.curve.zero):(this
.x=new r(t,16),this.z=new
r(i,16),this.x.red||(this.x=this.x.toRed(this.curve.red)),this.z.red||(this.z=this.z.toRed(this.curve.red)))}f(a,d),(t.export
s=a).prototype.validate=function(e){var
t=e.normalize(),x=e.t.redSqr(),t=e.redMul(t).redAdd(e.redMul(this.a)).redAdd(t);return
0===t.redSqr().redSqr().cmp(t)},f(s,d.BasePoint),a.prototype.decodePoint=function(e,t){return
this.point(n.toArray(e,t),1)},a.prototype.point=function(e,t){return new
s(this,e,t)},a.prototype.pointFromJSON=function(e){return
s.fromJSON(this,e)},s.prototype.precompute=function(){},s.prototype._encode=function(){return
this.getX().toArray("be",this.curve.p.byteLength())},s.fromJSON=function(e,t){return new
s(e,t[0],t[1]|e.one)},s.prototype.inspect=function(){return this.isInfinity()? "<EC Point Infinity>": "<EC Point x:
"+this.x.fromRed().toString(16,2)+" z:
"+this.z.fromRed().toString(16,2)+">"},s.prototype.isInfinity=function(){return
0===this.z.cmpn(0)},s.prototype.dbl=function(){var
e=this.x.redAdd(this.z).redSqr(),t=this.x.redSub(this.z).redSqr(),i=e.redSub(t),e=e.redMul(t),i=i.redMul(t.redAdd(th
is.curve.a24.redMul(i)));return this.curve.point(e,i)},s.prototype.add=function(){throw new Error("Not supported on
Montgomery curve")},s.prototype.diffAdd=function(e,t){var
i=this.x.redAdd(this.z),r=this.x.redSub(this.z),f=e.x.redAdd(e.z),i=e.x.redSub(e.z).redMul(i),f=f.redMul(r),r=t.z.red
Mul(i.redAdd(f).redSqr()),f=t.x.redMul(i.redISub(f).redSqr());return
this.curve.point(r,f)},s.prototype.mul=function(e){for(var
t=e.clone(),i=this,r=this.curve.point(null,null),f=[];0!==t.cmpn(0);t.iushrn(1))f.push(t.andln(1));for(var d=f.length-

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1;0<=d;d--0===f[d]?(i=i.diffAdd(r,this),r=r.dbl()):r=i.diffAdd(r,this),i=i.dbl());return
r},s.prototype.mulAdd=function(){throw new Error("Not supported on Montgomery
curve")},s.prototype.jum1Add=function(){throw new Error("Not supported on Montgomery
curve")},s.prototype.eq=function(e){return
0===this.getX().cmp(e.getX())},s.prototype.normalize=function(){return
this.x=this.x.redMul(this.z.redInvM()),this.z=this.curve.one,this},s.prototype.getX=function(){return
this.normalize(),this.x.fromRed()}},{"/utils":15,"/base":2,"bn.js":16,inherits:32}],6:[function(e,t,i){"use strict";var
r=e("./utils"),y=e("bn.js"),f=e("inherits"),d=e("./base"),n=r.assert;function a(e){d.call(this,"short",e),this.a=new
y(e.a,16).toRed(this.red),this.b=new
y(e.b,16).toRed(this.red),this.tinv=this.two.redInvM(),this.zeroA=0===this.a.fromRed().cmpn(0),this.threeA=0===t
his.a.fromRed().sub(this.p).cmpn(-3),this.endo=this._getEndomorphism(e),this._endoWnafT1=new
Array(4),this._endoWnafT2=new Array(4)}function
s(e,t,i,r){d.BasePoint.call(this,e,"affine"),null===t&&null===i?(this.x=null,this.y=null,this.inf=!0):(this.x=new
y(t,16),this.y=new
y(i,16),r&&(this.x.forceRed(this.curve.red),this.y.forceRed(this.curve.red)),this.x.red||(this.x=this.x.toRed(this.curve
.red)),this.y.red||(this.y=this.y.toRed(this.curve.red)),this.inf=!1)}function
c(e,t,i,r){d.BasePoint.call(this,e,"jacobian"),null===t&&null===i&&null===r?(this.x=this.curve.one,this.y=this.cur
ve.one,this.z=new y(0)):this.x=new y(t,16),this.y=new y(i,16),this.z=new
y(r,16),this.x.red||(this.x=this.x.toRed(this.curve.red)),this.y.red||(this.y=this.y.toRed(this.curve.red)),this.z.red||(this
.z=this.z.toRed(this.curve.red)),this.zOne=this.z===this.curve.one}f(a,d),(t.exports=a).prototype._getEndomorphis
m=function(e){var
t,i,r;if(this.zeroA&&this.g&&this.n&&1===this.p.modn(3))return i=(e.beta?new
y(e.beta,16):i=(r=this._getEndoRoots(this.p))[0].cmp(r[1])<0?r[0]:r[1]).toRed(this.red),e.lambda?t=new
y(e.lambda,16):(r=this._getEndoRoots(this.n),0===this.g.mul(r[0]).x.cmp(this.g.x.redMul(i))?t=r[0]:(t=r[1],n(0===t
his.g.mul(t).x.cmp(this.g.x.redMul(i))))),{beta:i,lambda:t,basis:e.basis?e.basis.map(function(e){return{a:new
y(e.a,16),b:new y(e.b,16)}}):this._getEndoBasis(t)}},a.prototype._getEndoRoots=function(e){var
t=e===this.p?this.red.y.mont(e),i=new y(2).toRed(t).redInvM(),e=i.redNeg(),i=new
y(3).toRed(t).redNeg().redSqrt().redMul(i);return[e.redAdd(i).fromRed(),e.redSub(i).fromRed()]},a.prototype._getE
ndoBasis=function(e){for(var
t,i,r,f,d,n,a,s=this.n.ushrn(Math.floor(this.n.bitLength()/2)),c=e,h=this.n.clone(),o=new y(1),u=new y(0),b=new
y(0),l=new y(1),p=0;0!==(c.cmpn(0));){var
m=h.div(c),v=h.sub(m.mul(c)),g=b.sub(m.mul(o)),m=l.sub(m.mul(u));if(!r&&v.cmp(s)<0)t=a.neg(),i=o,r=v.neg(),f
=g;else
if(r&&2===++p)break;h=c,c=a=v,b=o,o=g,l=u,u=m}d=v.neg(),n=g,e=r.sqr().add(f.sqr());return
0<=d.sqr().add(n.sqr()).cmp(e)&&(d=t,n=i),r.negative&&(r=r.neg()),f=f.neg(),d.negative&&(d=d.neg()),n=n.neg(),[
{a:r,b:f},{a:d,b:n}],a.prototype._endoSplit=function(e){var
t=this.endo.basis,i=t[0],r=t[1],f=r.b.mul(e).divRound(this.n),d=i.b.neg().mul(e).divRound(this.n),n=f.mul(i.a),t=d.m
ul(r.a),i=f.mul(i.b),r=d.mul(r.b);return{k1:e.sub(n).sub(t),k2:i.add(r).neg()}},a.prototype.pointFromX=function(e,t){
var i=(e!=(e=new
y(e,16)).red?e.toRed(this.red):e).redSqr().redMul(e).redIAdd(e.redMul(this.a)).redIAdd(this.b),r=i.redSqrt();if(0!==(r
.redSqr().redSub(i).cmp(this.zero))throw new Error("invalid
point");i=r.fromRed().isOdd();return(t&&1||!t&&i)&&(r=r.redNeg()),this.point(e,r)},a.prototype.validate=function(
e){if(e.inf)return!0;var t=e.x,i=e.y,e=this.a.redMul(t),e=t.redSqr().redMul(t).redIAdd(e).redIAdd(this.b);return
0===i.redSqr().redISub(e).cmpn(0)},a.prototype._endoWnafMulAdd=function(e,t,i){for(var
r=this._endoWnafT1,f=this._endoWnafT2,d=0;d<e.length;d++){var
n=this._endoSplit(t[d]),a=e[d],s=a._getBeta();n.k1.negative&&(n.k1.ineg(),a=a.neg(!0)),n.k2.negative&&(n.k2.ineg
()),s=s.neg(!0),r[2*d]=a,r[2*d+1]=s,f[2*d]=n.k1,f[2*d+1]=n.k2}for(var
i=this._wnafMulAdd(1,r,f,2*d,i),c=0;c<2*d;c++)r[c]=null,f[c]=null;return

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i},f(s,d.BasePoint),a.prototype.point=function(e,t,i){return new
s(this,e,t,i)},a.prototype.pointFromJSON=function(e,t){return
s.fromJSON(this,e,t)},s.prototype._getBeta=function(){if(this.curve.endo){var
e=this.precomputed;if(e&&e.beta)return e.beta;var
t,i,r=this.curve.point(this.x.redMul(this.curve.endo.beta),this.y);return e&&(t=this.curve,i=function(e){return
t.point(e.x.redMul(t.endo.beta),e.y)},(e.beta=r).precomputed={beta:null,naf:e.naf&&{wnd:e.naf.wnd,points:e.naf.po
ints.map(i)},doubles:e.doubles&&{step:e.doubles.step,points:e.doubles.points.map(i)},r}},s.prototype.toJSON=fun
ction(){return
this.precomputed?[this.x,this.y,this.precomputed&&{doubles:this.precomputed.doubles&&{step:this.precomputed.d
oubles.step,points:this.precomputed.doubles.points.slice(1)},naf:this.precomputed.naf&&{wnd:this.precomputed.na
f.wnd,points:this.precomputed.naf.points.slice(1)}]:[this.x,this.y]},s.fromJSON=function(t,e,i){"string"===typeof
e&&(e=JSON.parse(e));var r=t.point(e[0],e[1],i);if(!e[2])return r;function f(e){return
t.point(e[0],e[1],i)e=e[2];return
r.precomputed={beta:null,doubles:e.doubles&&{step:e.doubles.step,points:[r].concat(e.doubles.points.map(f))},naf:
e.naf&&{wnd:e.naf.wnd,points:[r].concat(e.naf.points.map(f))},r},s.prototype.inspect=function(){return
this.isInfinity()?"<EC Point Infinity>":"<EC Point x: "+this.x.fromRed().toString(16,2)+" y:
"+this.y.fromRed().toString(16,2)+">",s.prototype.isInfinity=function(){return
this.inf},s.prototype.add=function(e){if(this.inf)return e;if(e.inf)return this;if(this.eq(e))return
this.dbl();if(this.neg().eq(e))return this.curve.point(null,null);if(0===this.x.cmp(e.x))return
this.curve.point(null,null);var
t=this.y.redSub(e.y),e=(t=0!==t.cmpn(0)?t.redMul(this.x.redSub(e.x).redInvn()):t).redSqr().redISub(this.x).redISub
(e.x),t=t.redMul(this.x.redSub(e)).redISub(this.y);return
this.curve.point(e,t)},s.prototype.dbl=function(){if(this.inf)return this;var
e=this.y.redAdd(this.y);if(0===e.cmpn(0))return this.curve.point(null,null);var
t=this.curve.a,i=this.x.redSqr(),e=e.redInvn(),t=i.redAdd(i).redIAdd(t).redMul(e),e=t.redSqr().redISub(t
his.x.redAdd(this.x)),t=t.redMul(this.x.redSub(e)).redISub(this.y);return
this.curve.point(e,t)},s.prototype.getX=function(){return this.x.fromRed()},s.prototype.getY=function(){return
this.y.fromRed()},s.prototype.mul=function(e){return e=new
y(e,16),this.isInfinity()?this._hasDoubles(e)?this.curve._fixedNafMul(this,e):this.curve.endo?this.curve._endoW
nafMulAdd([this],[e]):this.curve._wnafMul(this,e)},s.prototype.mulAdd=function(e,t,i){t=[this,t],i=[e,i];return
this.curve.endo?this.curve._endoWnafMulAdd(t,i):this.curve._wnafMulAdd(1,t,i,2)},s.prototype.jmulAdd=function(
e,t,i){t=[this,t],i=[e,i];return
this.curve.endo?this.curve._endoWnafMulAdd(t,i,!0):this.curve._wnafMulAdd(1,t,i,2,!0)},s.prototype.eq=function(e
){return
this===e||this.inf===e.inf&&(this.inf||0===this.x.cmp(e.x)&&0===this.y.cmp(e.y))},s.prototype.neg=function(e){if
(this.inf)return this;var t,i=this.curve.point(this.x,this.y.redNeg());return
e&&this.precomputed&&(t=this.precomputed,e=function(e){return
e.neg()}),i.precomputed={naf:t.naf&&{wnd:t.naf.wnd,points:t.naf.points.map(e)},doubles:t.doubles&&{step:t.doubl
es.step,points:t.doubles.points.map(e)},i},s.prototype.toJ=function(){return
this.inf?this.curve.jpoint(null,null,null):this.curve.jpoint(this.x,this.y,this.curve.one)},f(c,d.BasePoint),a.prototype.jp
oint=function(e,t,i){return new c(this,e,t,i)},c.prototype.toP=function(){if(this.isInfinity())return
this.curve.point(null,null);var e=this.z.redInvn(),t=e.redSqr(),i=this.x.redMul(t),e=this.y.redMul(t).redMul(e);return
this.curve.point(i,e)},c.prototype.neg=function(){return
this.curve.jpoint(this.x,this.y.redNeg(),this.z)},c.prototype.add=function(e){if(this.isInfinity())return
e;if(e.isInfinity())return this;var
t=e.z.redSqr(),i=this.z.redSqr(),r=this.x.redMul(t),f=e.x.redMul(i),d=this.y.redMul(t.redMul(e.z)),n=e.y.redMul(i.re
dMul(this.z)),t=r.redSub(f),i=d.redSub(n);if(0===t.cmpn(0))return
0!==i.cmpn(0)?this.curve.jpoint(null,null,null):this.dbl();f=t.redSqr(),n=f.redMul(t),r=r.redMul(f),f=i.redSqr().redIA

```

```

dd(n).redISub(r).redISub(r),n=i.redMul(r.redISub(f)).redISub(d.redMul(n)),t=this.z.redMul(e.z).redMul(t);return
this.curve.jpoint(f,n,t)},c.prototype.mixedAdd=function(e){if(this.isInfinity())return e.toJ();if(e.isInfinity())return
this;var
t=this.z.redSqr(),i=this.x,r=e.x.redMul(t),f=this.y,d=e.y.redMul(t).redMul(this.z),e=i.redSub(r),t=f.redSub(d);if(0===
=e.cmpn(0))return
0!==t.cmpn(0)?this.curve.jpoint(null,null,null):this.dbl();r=e.redSqr(),d=r.redMul(e),i=i.redMul(r),r=t.redSqr().redI
Add(d).redISub(i).redISub(i),d=t.redMul(i.redISub(r)).redISub(f.redMul(d)),e=this.z.redMul(e);return
this.curve.jpoint(r,d,e)},c.prototype.dblp=function(e){if(0===e)return this;if(this.isInfinity())return this;if(!e)return
this.dbl();if(this.curve.zeroA||this.curve.threeA){for(var t=this,i=0;i<e;i++)t=t.dbl();return t}var
r=this.curve.a,f=this.curve.tinv,d=this.x,n=this.y,a=this.z,s=a.redSqr().redSqr(),c=n.redAdd(n);for(i=0;i<e;i++){var
h=d.redSqr(),o=c.redSqr(),u=o.redSqr(),b=h.redAdd(h).redIAdd(h).redIAdd(r.redMul(s)),h=d.redMul(o),o=b.redSqr
().redISub(h.redAdd(h)),h=h.redISub(o),b=(b=b.redMul(h)).redIAdd(b).redISub(u),h=c.redMul(a);i+1<e&&(s=s.red
Mul(u),d=o,a=h,c=b)}return this.curve.jpoint(d,c.redMul(f,a)},c.prototype.dbl=function(){return
this.isInfinity()?this:this.curve.zeroA?this._zeroDbl():this.curve.threeA?this._threeDbl():this._dbl()},c.prototype._ze
roDbl=function(){var
e,t,i,r,f,d=this.zOne?(i=this.x.redSqr(),e=(r=this.y.redSqr()).redSqr(),f=(f=this.x.redAdd(r).redSqr()).redISub(i).redIS
ub(e)).redIAdd(f),r=(t=i.redAdd(i).redIAdd(i)).redSqr().redISub(f).redISub(f),i=(i=i.e.redIAdd(e)).redIAdd(i)).redI
Add(i),e=r,t=t.redMul(f.redISub(r)).redISub(i),this.y.redAdd(this.y)):f=this.x.redSqr(),d=(r=this.y.redSqr()).redSqr(
),i=(i=this.x.redAdd(r).redSqr()).redISub(f).redISub(d)).redIAdd(i),f=(r=f.redAdd(f).redIAdd(f)).redSqr(),d=(d=(d=d.
redIAdd(d)).redIAdd(d)).redIAdd(d),e=f.redISub(i).redISub(i),t=r.redMul(i.redISub(e)).redISub(d),(d=this.y.redMul
(this.z)).redIAdd(d));return
this.curve.jpoint(e,t,d)},c.prototype._threeDbl=function(){var e,t,i,r,f,d,n,a;return
this.zOne?(e=this.x.redSqr(),r=(t=this.y.redSqr()).redSqr(),n=(n=this.x.redAdd(t).redSqr()).redISub(e).redISub(r)).re
dIAdd(n),i=f=(a=e.redAdd(e).redIAdd(e).redIAdd(this.curve.a)).redSqr()).redISub(n).redISub(n),d=(d=(d=r.redIAdd
(r)).redIAdd(d)).redIAdd(d),t=a.redMul(n.redISub(f)).redISub(d),e=this.y.redAdd(this.y)):r=this.z.redSqr(),a=this.y
.redSqr(),n=this.x.redMul(a),f=(f=this.x.redSub(r).redMul(this.x.redAdd(r))).redAdd(f).redIAdd(f),n=(d=(d=n.redIA
dd(n)).redIAdd(d)).redAdd(d),i=f.redSqr().redISub(n),e=this.y.redAdd(this.z).redSqr().redISub(a).redISub(r),a=(a=(
a=a.a.redSqr()).redIAdd(a)).redIAdd(a)).redIAdd(a),t=f.redMul(d.redISub(i)).redISub(a),this.curve.jpoint(i,t,e)},c.
prototype._dbl=function(){var
e=this.curve.a,t=this.x,i=this.y,r=this.z,f=r.redSqr().redSqr(),d=t.redSqr(),n=i.redSqr(),e=d.redAdd(d).redIAdd(d).re
dIAdd(e.redMul(f)),f=t.redAdd(t),t=(f=f.redIAdd(f)).redMul(n),f=e.redSqr().redISub(t.redAdd(t)),t=t.redISub(f),n=n
.redSqr();n=(n=(n=n.redIAdd(n)).redIAdd(n)).redIAdd(n);n=e.redMul(t).redISub(n),r=i.redAdd(i).redMul(r);return
this.curve.jpoint(f,n,r)},c.prototype.trpl=function(){if(!this.curve.zeroA)return this.dbl().add(this);var
e=this.x.redSqr(),t=this.y.redSqr(),i=this.z.redSqr(),r=t.redSqr(),f=e.redAdd(e).redIAdd(e),d=f.redSqr(),n=this.x.red
Add(t).redSqr().redISub(e).redISub(r),e=(n=(n=(n=n.redIAdd(n)).redAdd(n).redIAdd(n)).redISub(d)).redSqr(),r=r.re
dIAdd(r);r=(r=r.redIAdd(r)).redIAdd(r)).redIAdd(r);d=f.redIAdd(n).redSqr().redISub(d).redISub(e).redISub(r),t=
t.redMul(d);t=(t=t.redIAdd(t)).redIAdd(t);t=this.x.redMul(e).redISub(t);t=(t=t.redIAdd(t)).redIAdd(t);d=this.y.redM
ul(d.redMul(r.redISub(d)).redISub(n.redMul(e)));d=(d=(d=d.redIAdd(d)).redIAdd(d)).redIAdd(d);e=this.z.redAdd(n
).redSqr().redISub(i).redISub(e);return
this.curve.jpoint(t,d,e)},c.prototype.mul=function(e,t){return e=new
y(e,t),this.curve._wnafMul(this,e)},c.prototype.eq=function(e){if("affine"===e.type)return
this.eq(e.toJ());if(this===e)return!0;var
t=this.z.redSqr(),i=e.z.redSqr();if(0!==this.x.redMul(i).redISub(e.x.redMul(t)).cmpn(0))return!1;t=t.redMul(this.z),i
=i.redMul(e.z);return 0===this.y.redMul(i).redISub(e.y.redMul(t)).cmpn(0)},c.prototype.eqXTToP=function(e){var
t=this.z.redSqr(),i=e.toRed(this.curve.red).redMul(t);if(0===this.x.cmp(i))return!0;for(var
r=e.clone(),f=this.curve.redN.redMul(t);;){if(r.iadd(this.curve.n),0<=r.cmp(this.curve.p))return!1;if(i.redIAdd(f),0=
===this.x.cmp(i))return!0}},c.prototype.inspect=function(){return

```



```
this.isInfinity()?"<EC JPoint Infinity>":"<EC JPoint x: "+this.x.toString(16,2)+" y: "+this.y.toString(16,2)+" z: "+this.z.toString(16,2)+">",c.prototype.isInfinity=function(){return
0===this.z.cmpn(0)}},{"./utils":15,"./base":2,"bn.js":16,inherits:32}],7:[function(e,t,i){ "use strict";var
r,f=i,e=("hash.js"),d=e("./curve"),n=e("./utils").assert;function a(e){ "short"===e.type?this.curve=new
d.short(e):"edwards"===e.type?this.curve=new d.edwards(e):this.curve=new
d.mont(e),this.g=this.curve.g,this.n=this.curve.n,this.hash=e.hash,n(this.g.validate(),"Invalid
curve"),n(this.g.mul(this.n).isInfinity(),"Invalid curve, G*N != O")}function
s(t,i){Object.defineProperty(f,t,{ configurable:!0,enumerable:!0,get:function(){ var e=new a(i);return
Object.defineProperty(f,t,{ configurable:!0,enumerable:!0,value:e}),e}})}f.PresetCurve=a,s("p192",{ type:"short",pri
me:"p192",p:"ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff",a:"ffffffff ffffffff
ffffffff ffffffff ffffffff ffffffff ffffffff",b:"64210519 e59c80e7 0fa7e9ab 72243049 feb8deec c146b9b1",n:"ffffffff ffffffff
ffffffff 99def836 146bc9b1 b4d22831",hash:i.sha256,gRed:!1,g:["188da80e b03090f6 7cbf20eb 43a18800 f4ff0afd
82ff1012","07192b95 ffc8da78 631011ed 6b24cdd5 73f977a1
1e794811"]}),s("p224",{ type:"short",prime:"p224",p:"ffffffff ffffffff ffffffff ffffffff 00000000 00000000
00000001",a:"ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff",b:"b4050a85 0c04b3ab f5413256 5044b0b7
d7bfd8ba 270b3943 2355ffb4",n:"ffffffff ffffffff ffffffff ffff16a2 e0b8f03e 13dd2945
5c5c2a3d",hash:i.sha256,gRed:!1,g:["b70e0cbd 6bb4bf7f 321390b9 4a03c1d3 56c21122 343280d6
115c1d21","bd376388 b5f723fb 4c22dfe6 cd4375a0 5a074764 44d58199
85007e34"]}),s("p256",{ type:"short",prime:null,p:"ffffffff 00000001 00000000 00000000 00000000 ffffffff ffffffff
ffffffff",a:"ffffffff 00000001 00000000 00000000 00000000 ffffffff ffffffff ffffffff",b:"5ac635d8 aa3a93e7
b3ebbd55 769886bc 651d06b0 cc53b0f6
3bce3c3e 27d2604b",n:"ffffffff 00000000 ffffffff ffffffff bce6faad a7179e84 f3b9cac2
fc632551",hash:i.sha256,gRed:!1,g:["6b17d1f2 e12c4247 f8bce6e5 63a440f2 77037d81 2deb33a0 f4a13945
d898c296","4fe342e2 fe1a7f9b 8ee7eb4a 7c0f9e16 2bce3357 6b315ece cbb64068
37bf51f5"]}),s("p384",{ type:"short",prime:null,p:"ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff
00000000 00000000 ffffffff",a:"ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff
00000000 ffffffff",b:"b3312fa7 e23ee7e4 988e056b e3f82d19 181d9c6e fe814112 0314088f 5013875a c656398d
8a2ed19d 2a85c8ed d3ec2aef",n:"ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff c7634d81 f4372ddf 581a0db2
48b0a77a ecec196a ccc52973",hash:i.sha384,gRed:!1,g:["aa87ca22 be8b0537 8eb1c71e f320ad74 6e1d3b62
8ba79b98 59f741e0 82542a38 5502f25d bf55296c 3a545e38 72760ab7","3617de4a 96262c6f 5d9e98bf 9292dc29
f8f41dbd 289a147c e9da3113 b5f0b8c0 0a60b1ce 1d7e819d 7a431d7c
90ea0e5f"]}),s("p521",{ type:"short",prime:null,p:"000001ff
ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff
ffffffff",a:"000001ff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff
ffffffff ffffffff ffffffff ffffffff",b:"00000051 953eb961 8e1c9a1f 929a21a0 b68540ee a2da725b 99b315f3 b8b48991
8ef109e1 56193951 ec7e937b 1652c0bd 3bb1bf07 3573df88 3d2c34f1 ef451fd4 6b503f00",n:"000001ff ffffffff
ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff 51868783 bf2f966b 7fcc0148 f709a5d0 3bb5c9b8 899c47ae
bb6fb71e 91386409",hash:i.sha512,gRed:!1,g:["000000c6 858e06b7 0404e9cd 9e3ecb66 2395b442 9c648139
053fb521 f828af60 6b4d3dba a14b5e77 efe75928 fe1dc127 a2ffa8de 3348b3c1 856a429b f97e7e31
c2e5bd66","00000118 39296a78 9a3bc004 5c8a5fb4 2c7d1bd9 98f54449 579b4468 17afbd17 273e662c 97ee7299
5ef42640 c550b901 3fad0761 353c7086 a272c240 88be9476
9fd16650"]}),s("curve25519",{ type:"mont",prime:"p25519",p:"7fffffffffffffff
ffffffffffffffff ffffffffffffffff",a:"76d06",b:"1",n:"1000000000000000 0000000000000000
14def9dea2f79cd6
5812631a5cf5d3ed",hash:i.sha256,gRed:!1,g:["9"]}),s("ed25519",{ type:"edwards",prime:"p25519",p:"7fffffffffffffff
ffffffffffffffff ffffffffffffffff ffffffffffffffff",a:"-1",c:"1",d:"52036cee2b6ffe73 8cc740797779e898
00700a4d4141d8ab 75eb4dca135978a3",n:"1000000000000000 0000000000000000 14def9dea2f79cd6
5812631a5cf5d3ed",hash:i.sha256,gRed:!1,g:["216936d3cd6e53fec0a4e231fdd6dc5c692cc7609525a7b2c9562d608
```



```

l(t,r).recoveryParam)return t.recoveryParam;for(var
f,d=0;d<4;d++){try{f=this.recoverPubKey(e,t,d)}catch(e){continue}if(f.eq(i))return d}throw new Error("Unable to
find valid recovery factor")},{"/curves":7,"/utils":15,"/key":9,"/signature":10,"bn.js":16,brorand:17,"hmac-
drbg":31}],9:[function(e,t,i){"use strict";var r=e("bn.js"),f=e("../utils").assert;function
d(e,t){this.ec=e,this.priv=null,this.pub=null,t.priv&&this._importPrivate(t.priv,t.privEnc),t.pub&&this._importPubli
c(t.pub,t.pubEnc)}(t.exports=d).fromPublic=function(e,t,i){return
t instanceof d?t:new d(e,{pub:t,pubEnc:i}),d.fromPrivate=function(e,t,i){return t instanceof d?t:new
d(e,{priv:t,privEnc:i}),d.prototype.validate=function(){var e=this.getPublic();return
e.isInfinity()?{result:!1,reason:"Invalid public
key"}:e.validate()?e.mul(this.ec.curve.n).isInfinity()?{result:!0,reason:null}:{result:!1,reason:"Public key * N !=
O"}:{result:!1,reason:"Public key is not a point"}},d.prototype.getPublic=function(e,t){return"string"===typeof
e&&(t=e,e=null),this.pub||(this.pub=this.ec.g.mul(this.priv)),t?this.pub.encode(t,e):this.pub},d.prototype.getPrivate=
function(e){return"hex"===e?this.priv.toString(16,2):this.priv},d.prototype._importPrivate=function(e,t){this.priv=
new
r(e,t||16),this.priv=this.priv.umod(this.ec.curve.n)},d.prototype._importPublic=function(e,t){if(e.x||e.y)return"mont"
===this.ec.curve.type?f(e.x,"Need x
coordinate"):"short"===this.ec.curve.type&&"edwards"!==this.ec.curve.type?f(e.x&&e.y,"Need both x and y
coordinate"),void(this.pub=this.ec.curve.point(e.x,e.y));this.pub=this.ec.curve.decodePoint(e,t)},d.prototype.derive=
function(e){return
e.validate()||f(e.validate(),"public point not
validated"),e.mul(this.priv).getX(),d.prototype.sign=function(e,t,i){return
this.ec.sign(e,this,t,i)},d.prototype.verify=function(e,t){return
this.ec.verify(e,t,this)},d.prototype.inspect=function(){return"<Key priv: "+(this.priv&&this.priv.toString(16,2))+
pub: "+(this.pub&&this.pub.inspect())+" >"}},{"../utils":15,"bn.js":16}],10:[function(e,t,i){"use strict";var
f=e("bn.js"),d=e("../utils"),r=d.assert;function n(e,t){if(e instanceof n)return
e;this._importDER(e,t)||(r(e.r&&e.s,"Signature without r or s"),this.r=new f(e.r,16),this.s=new f(e.s,16),void
0===e.recoveryParam?this.recoveryParam=null:this.recoveryParam=e.recoveryParam)}function
a(){this.place=0}function s(e,t){var i=e[t.place++];if(!(128&i))return i;var r=15&i;if(0===r||4<r)return!1;for(var
f=0,d=0,n=t.place;d<r;d++,n++)f<<=8,f|=e[n],f>>=0;return!(f<=127)&&(t.place=n,f)}function
c(e){for(var t=0,i=e.length-1;!e[t]&&!(128&e[t+1])&&t<i;t++);return 0===t?e:e.slice(t)}function
h(e,t){if(t<128)e.push(t);else{var i=1+(Math.log(t)/Math.LN2>>>3);for(e.push(128|i);--
i);e.push(t>>>(i<<3)&255);e.push(t)}(t.exports=n).prototype._importDER=function(e,t){e=d.toArray(e,t);var
i=new a;if(48!==(e[i.place++]))return!1;var
r=s(e,i);if(!1===r)return!1;if(r+i.place!==(e.length))return!1;if(2!==(e[i.place++]))return!1;t=s(e,i);if(!1===t)return!1;r
=e.slice(i.place,t+i.place);if(i.place+=t,2!==(e[i.place++]))return!1;t=s(e,i);if(!1===t)return!1;if(e.length!==(t+i.place)r
eturn!1;i=e.slice(i.place,t+i.place);if(0===r[0]){if(!(128&r[1]))return!1;r=r.slice(1)}if(0===i[0]){if(!(128&i[1]))retu
rn!1;i=i.slice(1)}return this.r=new f(r),this.s=new
f(i),!(this.recoveryParam=null)},n.prototype.toDER=function(e){var
t=this.r.toArray(),i=this.s.toArray();for(128&t[0]&&(t=[0].concat(t)),128&i[0]&&(i=[0].concat(i)),t=c(t),i=c(i);!(i[0
]|128&i[1]);i=i.slice(1));var r=[2];h(r,t.length),(r=r.concat(t)).push(2),h(r,i.length);t=r.concat(i),r=[48];return
h(r,t.length),r=r.concat(t),d.encode(r,e)}},{"../utils":15,"bn.js":16}],11:[function(e,t,i){"use strict";var
r=e("hash.js"),f=e("../curves"),d=e("../utils"),n=d.assert,a=d.parseBytes,s=e("../key"),c=e("../signature");function
h(e){if(n("ed25519"===e,"only tested with ed25519 so far"),!(this instanceof h))return new
h(e);e=f[e].curve,this.curve=e,this.g=e.g,this.g.precompute(e.n.bitLength()+1),this.pointClass=e.point().constructor,t
his.encodingLength=Math.ceil(e.n.bitLength()/8),this.hash=r.sha512}(t.exports=h).prototype.sign=function(e,t){e=a
(e);var
i=this.keyFromSecret(t),r=this.hashInt(i.messagePrefix(),e),f=this.g.mul(r),t=this.encodePoint(f),i=this.hashInt(t,i.pu
bBytes(),e).mul(i.priv()),i=r.add(i).umod(this.curve.n);return

```

```

this.makeSignature({R:f,S:i,Rencoded:t}),h.prototype.verify=function(e,t,i){e=a(e),t=this.makeSignature(t);var
r=this.keyFromPublic(i),i=this.hashInt(t.Rencoded(),r.pubBytes(),e),e=this.g.mul(t.S());return
t.R().add(r.pub().mul(i)).eq(e),h.prototype.hashInt=function(){for(var
e=this.hash(),t=0;t<arguments.length;t++)e.update(arguments[t]);return
d.intFromLE(e.digest()).umod(this.curve.n)},h.prototype.keyFromPublic=function(e){return
s.fromPublic(this,e)},h.prototype.keyFromSecret=function(e){return
s.fromSecret(this,e)},h.prototype.makeSignature=function(e){return e instanceof c?e:new
c(this,e)},h.prototype.encodePoint=function(e){var t=e.getY().toArray("le",this.encodingLength);return
t[this.encodingLength-1]|e.getX().isOdd()?128:0,t,h.prototype.decodePoint=function(e){var
t=(e=d.parseBytes(e)).length-1,i=e.slice(0,t).concat(-129&e[t]),t=0!=(128&e[t]),i=d.intFromLE(i);return
this.curve.pointFromY(i,t)},h.prototype.encodeInt=function(e){return
e.toArray("le",this.encodingLength)},h.prototype.decodeInt=function(e){return
d.intFromLE(e)},h.prototype.isPoint=function(e){return e instanceof
this.pointClass},{"/curves":7,"./utils":15,"/key":12,"/signature":13,"hash.js":19}],12:[function(e,t,i){"use
strict";var r=e("./utils"),f=r.assert,d=r.parseBytes,e=r.cachedProperty;function
n(e,t){this.eddsa=e,this._secret=d(t.secret),e.isPoint(t.pub)?this._pub=t.pub:this._pubBytes=d(t.pub)}n.fromPublic=f
unction(e,t){return t instanceof n?t:new n(e,{pub:t}),n.fromSecret=function(e,t){return t instanceof n?t:new
n(e,{secret:t}),n.prototype.secret=function(){return this._secret},e(n,"pubBytes",function(){return
this.eddsa.encodePoint(this.pub()}),e(n,"pub",function(){return
this._pubBytes?this.eddsa.decodePoint(this._pubBytes):this.eddsa.g.mul(this.priv())}),e(n,"privBytes",function(){va
r e=this.eddsa,t=this.hash(),i=e.encodingLength-1,e=t.slice(0,e.encodingLength);return
e[0]&=248,e[i]&=127,e[i]=64,e}),e(n,"priv",function(){return
this.eddsa.decodeInt(this.privBytes()}),e(n,"hash",function(){return
this.eddsa.hash().update(this.secret()).digest()}),e(n,"messagePrefix",function(){return
this.hash().slice(this.eddsa.encodingLength)}),n.prototype.sign=function(e){return f(this._secret,"KeyPair
can only verify"),this.eddsa.sign(e,this)},n.prototype.verify=function(e,t){return
this.eddsa.verify(e,t,this)},n.prototype.getSecret=function(e){return f(this._secret,"KeyPair is public
only"),r.encode(this.secret(),e)},n.prototype.getPublic=function(e){return
r.encode(this.pubBytes(),e)},t.exports=n},{"/utils":15}],13:[function(e,t,i){"use strict";var
r=e("bn.js"),f=e("./utils"),d=f.assert,e=f.cachedProperty,n=f.parseBytes;function
a(e,t){this.eddsa=e,"object"!==typeof
t&&(t=n(t)),Array.isArray(t)&&(t={R:t.slice(0,e.encodingLength),S:t.slice(e.encodingLength)}),d(t.R&&t.S,"Signa
ture without R or S"),e.isPoint(t.R)&&(this._R=t.R),t.S instanceof
r&&(this._S=t.S),this._Rencoded=Array.isArray(t.R)?t.R:t.Rencoded,this._Sencoded=Array.isArray(t.S)?t.S:t.Senc
oded)e(a,"S",function(){return this.eddsa.decodeInt(this.Sencoded()}),e(a,"R",function(){return
this.eddsa.decodePoint(this.Rencoded()}),e(a,"Rencoded",function(){return
this.eddsa.encodePoint(this.R()}),e(a,"Sencoded",function(){return
this.eddsa.encodeInt(this.S()}),a.prototype.toBytes=function(){return
this.Rencoded().concat(this.Sencoded()}),a.prototype.toHex=function(){return
f.encode(this.toBytes(),"hex").toUpperCase()},t.exports=a},{"/utils":15,"bn.js":16}],14:[function(e,t,i){t.exports={
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e", "67163e903236289f776f22c25fb8a3afc1732f2b84b4e95dbda47ae5a0852649"],["3fad3fa84caf0f34f0f89bfd2dcf5  
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6"],["674f2600a3007a00568c1a7ce05d0816c1fb84bf1370798f1c69532faeb1a86b", "299d21f9413f33b3edf43b25700  
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695a559eb88db7b"],["be2062003c51cc3004682904330e4dee7f3dcd10b01e580bf1971b04d4cad297", "62188bc49d6  
1e5428573d48a74e1c655b1c61090905682a0d5558ed72dccb9bc"],["93144423ace3451ed29e0fb9ac2af211cb6e84a6  
01df5993c419859fff5df04a", "7c10dfb164c3425f5c71a3f9d7992038f1065224f72bb9d1d902a6d13037b47c"],["b015

f8044f5fcbdcf21ca26d6c34fb8197829205c7b7d2a7cb66418c157b112c","ab8c1e086d04e813744a655b2df8d5f83b3  
cdc6faa3088c1d3aea1454e3a1d5f"],["d5e9e1da649d97d89e4868117a465a3a4f8a18de57a140d36b3f2af341a21b52"  
,"4cb04437f391ed73111a13cc1d4dd0db1693465c2240480d8955e8592f27447a"],["d3ae41047dd7ca065dbf8ed77b9  
92439983005cd72e16d6f996a5316d36966bb","bd1aeb21ad22ebb22a10f0303417c6d964f8cdd7df0aca614b10dc14d  
125ac46"],["463e2763d885f958fc66cdd22800f0a487197d0a82e377b49f80af87c897b065","bfefacdb0e5d0fd7df3a3  
11a94de062b26b80c61fbc97508b79992671ef7ca7f"],["7985fdfd127c0567c6f53ec1bb63ec3158e597c40bfe747c83c  
ddfc910641917","603c12daf3d9862ef2b25fe1de289aed24ed291e0ec6708703a5bd567f32ed03"],["74a1ad6b5f76e3  
9db2dd249410eac7f99e74c59cb83d2d0ed5ff1543da7703e9","cc6157ef18c9c63cd6193d83631bbea0093e0968942e  
8c33d5737fd790e0db08"],["30682a50703375f602d416664ba19b7fc9bab42c72747463a71d0896b22f6da3","553e04  
f6b018b4fa6c8f39e7f311d3176290d0e0f19ca73f17714d9977a22ff8"],["9e2158f0d7c0d5f26c3791efefa79597654e7  
a2b2464f52b1ee6c1347769ef57","712fcdd1b9053f09003a3481fa7762e9ffd7c8ef35a38509e2fbf2629008373"],["17  
6e26989a43c9cfeba4029c202538c28172e566e3c4fce7322857f3be327d66","ed8cc9d04b29eb877d270b4878dc43c1  
9aefd31f4eee09ee7b47834c1fa4b1c3"],["75d46efea3771e6e68abb89a13ad747ecf1892393dfc4f1b7004788c50374da  
8","9852390a99507679fd0b86fd2b39a868d7efc22151346e1a3ca4726586a6bed8"],["809a20c67d64900ffb698c4c82  
5f6d5f2310fb0451c869345b7319f645605721","9e994980d9917e22b76b061927fa04143d096ccc54963e6a5ebfa5f3f  
8e286c1"],["1b38903a43f7f114ed4500b4eac7083defece1cf29c63528d563446f972c180","4036edc931a60ae889353  
f77fd53de4a2708b26b6f5da72ad3394119daf408f9"]]]}],15:[function(e,t,i){"use  
strict";var r=i,f=e("bn.js"),i=e("minimalistic-assert"),e=e("minimalistic-crypto-  
utils");r.assert=i,r.toArray=e.toArray,r.zero2=e.zero2,r.toHex=e.toHex,r.encode=e.encode,r.getNAF=function(e,t,i){  
var r=new Array(Math.max(e.bitLength(),i)+1);r.fill(0);for(var f=1<<t+1,d=e.clone(),n=0;n<r.length;n++){var  
a,s=d.andln(f-1);d.isOdd()?(a=(f>>1)-1<s?(f>>1)-s:s,d.isubn(a)):a=0,r[n]=a,d.iushrn(1)}return  
r},r.getJSF=function(e,t){var i=[[[],[]];e=e.clone(),t=t.clone();for(var r,f=0,d=0;0<e.cmpn(-f)||0<t.cmpn(-d);){var  
n,a=e.andln(3)+f&3,s=t.andln(3)+d&3;3===s&&(s--),n=0==(1&(a=3===a?-  
1:a)?0:3!==(r=e.andln(7)+f&7)&&5!==(r||2)!==s?a:-  
a,i[0].push(n),s=0==(1&s)?0:3!==(r=t.andln(7)+d&7)&&5!==(r||2)!==a?s:-s,i[1].push(s),2\*f===n+1&&(f=1-  
f),2\*d===s+1&&(d=1-d),e.iushrn(1),t.iushrn(1)}return  
i},r.cachedProperty=function(e,t,i){var r="\_"+t;e.prototype[t]=function(){return void  
0!==(this[r]?this[r]:this[r]=i.call(this))},r.parseBytes=function(e){return"string"===typeof  
e?r.toArray(e,"hex"):e},r.intFromLE=function(e){return new f(e,"hex","le")},{ "bn.js":16,"minimalistic-  
assert":33,"minimalistic-crypto-utils":34}],16:[function(\_,e,t){!function(e,t){"use strict";function p(e,t){if(!e)throw  
new Error(t||"Assertion failed")}function i(e,t){e.super\_=t;function i(){}i.prototype=t.prototype,e.prototype=new  
i,e.prototype.constructor=e}function m(e,t,i){if(m.isBN(e))return  
e;this.negative=0,this.words=null,this.length=0,(this.red=null)!==e&&("le"!==t&&"be"!==t||(i=t,t=10),this.\_init(e||0  
,t||10,i||"be"))}var r;"object"===typeof  
e?e.exports=m:t.BN=m,(m.BN=m).wordSize=26;try{r=\_( "buffer").Buffer}catch(e){}function  
n(e,t,i){for(var r=0,f=Math.min(e.length,i),d=t;d<f;d++){var n=e.charCodeAt(d)-48;r<<=4,r|=49<=n&&n<=54?n-  
49+10:17<=n&&n<=22?n-17+10:15&n}return r}function o(e,t,i,r){for(var  
f=0,d=Math.min(e.length,i),n=t;n<d;n++){var a=e.charCodeAt(n)-48;f\*=r,f+=49<=a?a-49+10:17<=a?a-  
17+10:a}return f}m.isBN=function(e){return e instanceof m||null!==e&&"object"===typeof  
e&&e.constructor.wordSize===m.wordSize&&Array.isArray(e.words)},m.max=function(e,t){return  
0<e.cmp(t)?e:t},m.min=function(e,t){return e.cmp(t)<0?e:t},m.prototype.\_init=function(e,t,i){if("number"===typeof  
e)return this.\_initNumber(e,t,i);if("object"===typeof e)return  
this.\_initArray(e,t,i);p((t="hex"===t?16:t)===(0|t)&&2<=t&&t<=36);var r=0;"-  
"===e?(e=e.toString().replace(/s/g,""))[0]&&r++,16===t?this.\_parseHex(e,r):this.\_parseBase(e,t,r),"-  
"===e[0]&&(this.negative=1),this.strip(),"le"===i&&this.\_initArray(this.toArray(),t,i),m.prototype.\_initNumber=f  
unction(e,t,i){e<0&&(this.negative=1,e=-  
e),e<67108864?(this.words=[67108863&e],this.length=1):e<4503599627370496?(this.words=[67108863&e,e/6710  
8864&67108863],this.length=2):(p(e<9007199254740992),this.words=[67108863&e,e/67108864&67108863,1],this



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2===this.length?e+=67108864*this.words[1]:3===this.length&&1===this.words[2]?e+=4503599627370496+6710
8864*this.words[1]:2<this.length&&p(!1,"Number can only safely store up to 53 bits"),0!==(this.negative?-
e:e),m.prototype.toJSON=function(){return this.toString(16)},m.prototype.toBuffer=function(e,t){return p(void
0!==(r),this.toArrayLike(r,e,t)},m.prototype.toArray=function(e,t){return
this.toArrayLike(Array,e,t)},m.prototype.toArrayLike=function(e,t,i){var
r=this.byteLength(),f=i||Math.max(1,r);p(r<=f,"byte array longer than desired length"),p(0<f,"Requested array
length <= 0"),this.strip();var d,n,t="le"===t,a=new
e(f),s=this.clone();if(t){for(n=0;!s.isZero();n++)d=s.andln(255),s.iushrn(8),a[n]=d;for(;n<f;n++)a[n]=0}else{for(n=0
;n<f-r;n++)a[n]=0;for(n=0;!s.isZero();n++)d=s.andln(255),s.iushrn(8),a[f-n-1]=d}return
a},Math.clz32?m.prototype._countBits=function(e){return 32-
Math.clz32(e)}:m.prototype._countBits=function(e){var t=e,e=0;return
4096<=t&&(e+=13,t>>=13),64<=t&&(e+=7,t>>=7),8<=t&&(e+=4,t>>=4),2<=t&&(e+=2,t>>=2),e+t},m.prot
otype._zeroBits=function(e){if(0===e)return 26;var t=e,e=0;return
0==(8191&t)&&(e+=13,t>>=13),0==(127&t)&&(e+=7,t>>=7),0==(15&t)&&(e+=4,t>>=4),0==(3&t)&&(e+=
2,t>>=2),0==(1&t)&&e++,e},m.prototype.bitLength=function(){var e=this.words[this.length-
1],e=this._countBits(e);return 26*(this.length-1)+e},m.prototype.zeroBits=function(){if(this.isZero())return
0;for(var e=0,t=0;t<this.length;t++){var i=this._zeroBits(this.words[t]);if(e+=i,26!==(i))break}return
e},m.prototype.byteLength=function(){return Math.ceil(this.bitLength()/8)},m.prototype.toTwos=function(e){return
0!==(this.negative?this.abs().inotn(e).iaddn(1):this.clone())},m.prototype.fromTwos=function(e){return this.testn(e-
1)?this.notn(e).iaddn(1).ineg():this.clone()}},m.prototype.isNeg=function(){return
0!==(this.negative)},m.prototype.neg=function(){return this.clone().ineg()}},m.prototype.ineg=function(){return
this.isZero()||(this.negative^=1),this},m.prototype.iuor=function(e){for(;this.length<e.length;)this.words[this.length
++]=0;for(var t=0;t<e.length;t++)this.words[t]=this.words[t]|e.words[t];return
this.strip()}},m.prototype.ior=function(e){return
p(0==(this.negative|e.negative)),this.iuor(e)},m.prototype.or=function(e){return
this.length>e.length?this.clone().ior(e):e.clone().ior(this)},m.prototype.uor=function(e){return
this.length>e.length?this.clone().iuor(e):e.clone().iuor(this)},m.prototype.iuand=function(e){for(var
t=this.length>e.length?e:this,i=0;i<t.length;i++)this.words[i]=this.words[i]&e.words[i];return
this.length=t.length,this.strip()}},m.prototype.iand=function(e){return
p(0==(this.negative|e.negative)),this.iuand(e)},m.prototype.and=function(e){return
this.length>e.length?this.clone().iand(e):e.clone().iand(this)},m.prototype.uand=function(e){return
this.length>e.length?this.clone().iuand(e):e.clone().iuand(this)},m.prototype.iuxor=function(e){for(var
t,i=this.length>e.length?(t=this,e):(t=e,this),r=0;r<i.length;r++)this.words[r]=t.words[r]^i.words[r];if(this!==(t)for(;r<
t.length;r++)this.words[r]=t.words[r];return this.length=t.length,this.strip()}},m.prototype.ixor=function(e){return
p(0==(this.negative|e.negative)),this.iuxor(e)},m.prototype.xor=function(e){return
this.length>e.length?this.clone().ixor(e):e.clone().ixor(this)},m.prototype.uxor=function(e){return
this.length>e.length?this.clone().iuxor(e):e.clone().iuxor(this)},m.prototype.inotn=function(e){p("number"==typeof
e&&0<=e);var t=0|Math.ceil(e/26),e=e%26;this._expand(t,0<e&&t-;for(var
i=0;i<t;i++)this.words[i]=67108863&~this.words[i];return 0<e&&(this.words[i]=~this.words[i]&67108863>>26-
e),this.strip()}},m.prototype.notn=function(e){return
this.clone().inotn(e)},m.prototype.setn=function(e,t){p("number"==typeof e&&0<=e);var i=e/26|0,e=e%26;return
this._expand(1+i),this.words[i]=t?this.words[i]|1<<e:this.words[i]&~(1<<e),this.strip()}},m.prototype.iadd=function(
e){var t,i,r;if(0!==(this.negative&&0===e.negative))return
this.negative=0,t=this.isub(e),this.negative^=1,this._normSign();if(0===this.negative&&0!==(e.negative))return
e.negative=0,t=this.isub(e),e.negative=1,t._normSign();r=this.length>e.length?(i=this,e):(i=e,this);for(var
f=0,d=0;d<r.length;d++)t=(0|i.words[d])+t+(0|r.words[d])+f,this.words[d]=67108863&t,f=t>>26;for(;0!==(f&&d<i.l
ngth;d++)t=(0|i.words[d])+f,this.words[d]=67108863&t,f=t>>26;if(this.length=i.length,0!==(f))this.words[this.lengt
h]=f,this.length++;else if(i!==(this)for(;d<i.length;d++)this.words[d]=i.words[d];return

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this},m.prototype.add=function(e){var t;return
0!==(e.negative&&0===this.negative?(e.negative=0,t=this.sub(e),e.negative^=1,t):0===e.negative&&0!==(this.negative?
ive?(this.negative=0,t=e.sub(this),this.negative=1,t):this.length>e.length?this.clone().iadd(e):e.clone().iadd(this)}},m.
prototype.isub=function(e){if(0!==(e.negative)){e.negative=0;var
t=this.iadd(e);return e.negative=1,t._normSign()}if(0!==(this.negative))return
this.negative=0,this.iadd(e),this.negative=1,this._normSign();var i,r,f=this.cmp(e);if(0===f)return
this.negative=0,this.length=1,this.words[0]=0,this;r=0<f?(i=this,e):(i=e,this);for(var
d=0,n=0;n<r.length;n++)d=(t=(0|i.words[n])-
(0|r.words[n])+d)>>26,this.words[n]=67108863&t;for(;0!==(d&&n<i.length;n++)d=(t=(0|i.words[n])+d)>>26,this.w
ords[n]=67108863&t;if(0===d&&n<i.length&&i!==(this))for(;n<i.length;n++)this.words[n]=i.words[n];return
this.length=Math.max(this.length,n),i!==(this&&(this.negative=1),this.strip())},m.prototype.sub=function(e){return
this.clone().isub(e)};var d=function(e,t,i){var
r=e.words,f=t.words,d=i.words,n=0|r[0],a=8191&n,s=n>>>13,c=0|r[1],h=8191&c,o=c>>>13,u=0|r[2],b=8191&u,l=
u>>>13,p=0|r[3],m=8191&p,v=p>>>13,g=0|r[4],y=8191&g,M=g>>>13,w=0|r[5],S=8191&w,_=w>>>13,A=0|r[6],
x=8191&A,I=A>>>13,z=0|r[7],q=8191&z,R=z>>>13,k=0|r[8],P=8191&k,j=k>>>13,N=0|r[9],E=8191&N,B=N>>>
13,L=0|f[0],O=8191&L,F=L>>>13,T=0|f[1],C=8191&T,Z=T>>>13,J=0|f[2],H=8191&J,D=J>>>13,X=0|f[3],K=81
91&X,V=X>>>13,W=0|f[4],U=8191&W,Y=W>>>13,G=0|f[5],Q=8191&G,$=G>>>13,n=0|f[6],c=8191&n,u=n>>
>13,p=0|f[7],g=8191&p,w=p>>>13,A=0|f[8],z=8191&A,k=A>>>13,r=0|f[9],N=8191&r,L=r>>>13;i.negative=e.ne
gative^t.negative,i.length=19;var
X=(0+Math.imul(a,O)|0)+((8191&(J=Math.imul(a,F)+Math.imul(s,O)|0))<<13)|0,ee=(Math.imul(s,F)+(J>>>13)|0)+(
X>>>26)|0;X&=67108863,T=Math.imul(h,O),J=Math.imul(h,F)+Math.imul(o,O)|0,W=Math.imul(o,F);G=(ee+(T+
Math.imul(a,C)|0)|0)+((8191&(J=(J+Math.imul(a,Z)|0)+Math.imul(s,C)|0))<<13)|0;ee=((W+Math.imul(s,Z)|0)+(J>>
>13)|0)+(G>>>26)|0,G&=67108863,T=Math.imul(b,O),J=Math.imul(b,F)+Math.imul(l,O)|0,W=Math.imul(l,F),T=
T+Math.imul(h,C)|0,J=(J+Math.imul(h,Z)|0)+Math.imul(o,C)|0,W=W+Math.imul(o,Z)|0;n=(ee+(T+Math.imul(a,H)|
0)|0)+((8191&(J=(J+Math.imul(a,D)|0)+Math.imul(s,H)|0))<<13)|0;ee=((W+Math.imul(s,D)|0)+(J>>>13)|0)+(n>>>
26)|0,n&=67108863,T=Math.imul(m,O),J=Math.imul(m,F)+Math.imul(v,O)|0,W=Math.imul(v,F),T=T+Math.imul(
b,C)|0,J=(J+Math.imul(b,Z)|0)+Math.imul(l,C)|0,W=W+Math.imul(l,Z)|0,T=T+Math.imul(h,H)|0,J=(J+Math.imul(h
,D)|0)+Math.imul(o,H)|0,W=W+Math.imul(o,D)|0;p=(ee+(T+Math.imul(a,K)|0)|0)+((8191&(J=(J+Math.imul(a,V)|0
)+Math.imul(s,K)|0))<<13)|0;ee=((W+Math.imul(s,V)|0)+(J>>>13)|0)+(p>>>26)|0,p&=67108863,T=Math.imul(y,O
),J=Math.imul(y,F)+Math.imul(M,O)|0,W=Math.imul(M,F),T=T+Math.imul(m,C)|0,J=(J+Math.imul(m,Z)|0)+Math
.imul(v,C)|0,W=W+Math.imul(v,Z)|0,T=T+Math.imul(b,H)|0,J=(J+Math.imul(b,D)|0)+Math.imul(l,H)|0,W=W+Mat
h.imul(l,D)|0,T=T+Math.imul(h,K)|0,J=(J+Math.imul(h,V)|0)+Math.imul(o,K)|0,W=W+Math.imul(o,V)|0;A=(ee+(
T+Math.imul(a,U)|0)|0)+((8191&(J=(J+Math.imul(a,Y)|0)+Math.imul(s,U)|0))<<13)|0;ee=((W+Math.imul(s,Y)|0)+(
J>>>13)|0)+(A>>>26)|0,A&=67108863,T=Math.imul(S,O),J=Math.imul(S,F)+Math.imul(_,O)|0,W=Math.imul(_,F
),T=T+Math.imul(y,C)|0,J=(J+Math.imul(y,Z)|0)+Math.imul(M,C)|0,W=W+Math.imul(M,Z)|0,T=T+Math.imul(m,
H)|0,J=(J+Math.imul(m,D)|0)+Math.imul(v,H)|0,W=W+Math.imul(v,D)|0,T=T+Math.imul(b,K)|0,J=(J+Math.imul(
b,V)|0)+Math.imul(l,K)|0,W=W+Math.imul(l,V)|0,T=T+Math.imul(h,U)|0,J=(J+Math.imul(h,Y)|0)+Math.imul(o,U
)|0,W=W+Math.imul(o,Y)|0;f=(ee+(T+Math.imul(a,Q)|0)|0)+((8191&(J=(J+Math.imul(a,$)|0)+Math.imul(s,Q)|0))<<
13)|0;ee=((W+Math.imul(s,$)|0)+(J>>>13)|0)+(f>>>26)|0,f&=67108863,T=Math.imul(x,O),J=Math.imul(x,F)+Mat
h.imul(I,O)|0,W=Math.imul(I,F),T=T+Math.imul(S,C)|0,J=(J+Math.imul(S,Z)|0)+Math.imul(_,C)|0,W=W+Math.im
ul(_,Z)|0,T=T+Math.imul(y,H)|0,J=(J+Math.imul(y,D)|0)+Math.imul(M,H)|0,W=W+Math.imul(M,D)|0,T=T+Math.
imul(m,K)|0,J=(J+Math.imul(m,V)|0)+Math.imul(v,K)|0,W=W+Math.imul(v,V)|0,T=T+Math.imul(b,U)|0,J=(J+Mat
h.imul(b,Y)|0)+Math.imul(l,U)|0,W=W+Math.imul(l,Y)|0,T=T+Math.imul(h,Q)|0,J=(J+Math.imul(h,$)|0)+Math.im
ul(o,Q)|0,W=W+Math.imul(o,$)|0;r=(ee+(T+Math.imul(a,c)|0)|0)+((8191&(J=(J+Math.imul(a,u)|0)+Math.imul(s,c)
|0))<<13)|0;ee=((W+Math.imul(s,u)|0)+(J>>>13)|0)+(r>>>26)|0,r&=67108863,T=Math.imul(q,O),J=Math.imul(q,F)
+Math.imul(R,O)|0,W=Math.imul(R,F),T=T+Math.imul(x,C)|0,J=(J+Math.imul(x,Z)|0)+Math.imul(I,C)|0,W=W+M
ath.imul(I,Z)|0,T=T+Math.imul(S,H)|0,J=(J+Math.imul(S,D)|0)+Math.imul(_,H)|0,W=W+Math.imul(_,D)|0,T=T+
Math.imul(y,K)|0,J=(J+Math.imul(y,V)|0)+Math.imul(M,K)|0,W=W+Math.imul(M,V)|0,T=T+Math.imul(m,U)|0,J=

```

$(J+\text{Math.imul}(m, Y)|0)+\text{Math.imul}(v, U)|0, W=W+\text{Math.imul}(v, Y)|0, T=T+\text{Math.imul}(b, Q)|0, J=(J+\text{Math.imul}(b, \$)|0)+$   
 $\text{Math.imul}(l, Q)|0, W=W+\text{Math.imul}(l, \$)|0, T=T+\text{Math.imul}(h, c)|0, J=(J+\text{Math.imul}(h, u)|0)+\text{Math.imul}(o, c)|0, W=W+$   
 $\text{Math.imul}(o, u)|0; e=(e+(\text{Math.imul}(a, g)|0)|0)+((8191 \& (J=(J+\text{Math.imul}(a, w)|0)+\text{Math.imul}(s, g)|0)) \ll 13)|0; ee=($   
 $(W+\text{Math.imul}(s, w)|0)+(J \gg 13)|0)+(e \gg 26)|0, e \&= 67108863, T=\text{Math.imul}(P, O), J=\text{Math.imul}(P, F)+\text{Math.imul}(j,$   
 $O)|0, W=\text{Math.imul}(j, F), T=T+\text{Math.imul}(q, C)|0, J=(J+\text{Math.imul}(q, Z)|0)+\text{Math.imul}(R, C)|0, W=W+\text{Math.imul}(R, Z)|$   
 $0, T=T+\text{Math.imul}(x, H)|0, J=(J+\text{Math.imul}(x, D)|0)+\text{Math.imul}(I, H)|0, W=W+\text{Math.imul}(I, D)|0, T=T+\text{Math.imul}(S, K)|$   
 $0, J=(J+\text{Math.imul}(S, V)|0)+\text{Math.imul}(\_, K)|0, W=W+\text{Math.imul}(\_, V)|0, T=T+\text{Math.imul}(y, U)|0, J=(J+\text{Math.imul}(y, Y)$   
 $|0)+\text{Math.imul}(M, U)|0, W=W+\text{Math.imul}(M, Y)|0, T=T+\text{Math.imul}(m, Q)|0, J=(J+\text{Math.imul}(m, \$)|0)+\text{Math.imul}(v, Q)|$   
 $0, W=W+\text{Math.imul}(v, \$)|0, T=T+\text{Math.imul}(b, c)|0, J=(J+\text{Math.imul}(b, u)|0)+\text{Math.imul}(l, c)|0, W=W+\text{Math.imul}(l, u)|0,$   
 $T=T+\text{Math.imul}(h, g)|0, J=(J+\text{Math.imul}(h, w)|0)+\text{Math.imul}(o, g)|0, W=W+\text{Math.imul}(o, w)|0; t=(e+(\text{Math.imul}(a, z)$   
 $)|0)+((8191 \& (J=(J+\text{Math.imul}(a, k)|0)+\text{Math.imul}(s, z)|0)) \ll 13)|0; ee=((W+\text{Math.imul}(s, k)|0)+(J \gg 13)|0)+(t \gg 2$   
 $6)|0, t \&= 67108863, T=\text{Math.imul}(E, O), J=\text{Math.imul}(E, F)+\text{Math.imul}(B, O)|0, W=\text{Math.imul}(B, F), T=T+\text{Math.imul}(P,$   
 $C)|0, J=(J+\text{Math.imul}(P, Z)|0)+\text{Math.imul}(j, C)|0, W=W+\text{Math.imul}(j, Z)|0, T=T+\text{Math.imul}(q, H)|0, J=(J+\text{Math.imul}(q,$   
 $D)|0)+\text{Math.imul}(R, H)|0, W=W+\text{Math.imul}(R, D)|0, T=T+\text{Math.imul}(x, K)|0, J=(J+\text{Math.imul}(x, V)|0)+\text{Math.imul}(I, K)|$   
 $0, W=W+\text{Math.imul}(I, V)|0, T=T+\text{Math.imul}(S, U)|0, J=(J+\text{Math.imul}(S, Y)|0)+\text{Math.imul}(\_, U)|0, W=W+\text{Math.imul}(\_,$   
 $Y)|0, T=T+\text{Math.imul}(y, Q)|0, J=(J+\text{Math.imul}(y, \$)|0)+\text{Math.imul}(M, Q)|0, W=W+\text{Math.imul}(M, \$)|0, T=T+\text{Math.imul}($   
 $m, c)|0, J=(J+\text{Math.imul}(m, u)|0)+\text{Math.imul}(v, c)|0, W=W+\text{Math.imul}(v, u)|0, T=T+\text{Math.imul}(b, g)|0, J=(J+\text{Math.imul}(b,$   
 $, w)|0)+\text{Math.imul}(l, g)|0, W=W+\text{Math.imul}(l, w)|0, T=T+\text{Math.imul}(h, z)|0, J=(J+\text{Math.imul}(h, k)|0)+\text{Math.imul}(o, z)|0,$   
 $W=W+\text{Math.imul}(o, k)|0; a=(e+(\text{Math.imul}(a, N)|0)|0)+((8191 \& (J=(J+\text{Math.imul}(a, L)|0)+\text{Math.imul}(s, N)|0)) \ll 1$   
 $3)|0; ee=((W+\text{Math.imul}(s, L)|0)+(J \gg 13)|0)+(a \gg 26)|0, a \&= 67108863, T=\text{Math.imul}(E, C), J=\text{Math.imul}(E, Z)+\text{Mat}$   
 $h.\text{imul}(B, C)|0, W=\text{Math.imul}(B, Z), T=T+\text{Math.imul}(P, H)|0, J=(J+\text{Math.imul}(P, D)|0)+\text{Math.imul}(j, H)|0, W=W+\text{Math.i}$   
 $\text{mul}(j, D)|0, T=T+\text{Math.imul}(q, K)|0, J=(J+\text{Math.imul}(q, V)|0)+\text{Math.imul}(R, K)|0, W=W+\text{Math.imul}(R, V)|0, T=T+\text{Math}$   
 $.\text{imul}(x, U)|0, J=(J+\text{Math.imul}(x, Y)|0)+\text{Math.imul}(I, U)|0, W=W+\text{Math.imul}(I, Y)|0, T=T+\text{Math.imul}(S, Q)|0, J=(J+\text{Math}$   
 $.\text{imul}(S, \$)|0)+\text{Math.imul}(\_, Q)|0, W=W+\text{Math.imul}(\_, \$)|0, T=T+\text{Math.imul}(y, c)|0, J=(J+\text{Math.imul}(y, u)|0)+\text{Math.imul}$   
 $(M, c)|0, W=W+\text{Math.imul}(M, u)|0, T=T+\text{Math.imul}(m, g)|0, J=(J+\text{Math.imul}(m, w)|0)+\text{Math.imul}(v, g)|0, W=W+\text{Math.i}$   
 $\text{mul}(v, w)|0, T=T+\text{Math.imul}(b, z)|0, J=(J+\text{Math.imul}(b, k)|0)+\text{Math.imul}(l, z)|0, W=W+\text{Math.imul}(l, k)|0; h=(e+(\text{Math}$   
 $h.\text{imul}(h, N)|0)|0)+((8191 \& (J=(J+\text{Math.imul}(h, L)|0)+\text{Math.imul}(o, N)|0)) \ll 13)|0; ee=((W+\text{Math.imul}(o, L)|0)+(J \gg 1$   
 $3)|0)+(h \gg 26)|0, h \&= 67108863, T=\text{Math.imul}(E, H), J=\text{Math.imul}(E, D)+\text{Math.imul}(B, H)|0, W=\text{Math.imul}(B, D), T=T$   
 $+\text{Math.imul}(P, K)|0, J=(J+\text{Math.imul}(P, V)|0)+\text{Math.imul}(j, K)|0, W=W+\text{Math.imul}(j, V)|0, T=T+\text{Math.imul}(q, U)|0, J=(J$   
 $+\text{Math.imul}(q, Y)|0)+\text{Math.imul}(R, U)|0, W=W+\text{Math.imul}(R, Y)|0, T=T+\text{Math.imul}(x, Q)|0, J=(J+\text{Math.imul}(x, \$)|0)+$   
 $\text{Math.imul}(I, Q)|0, W=W+\text{Math.imul}(I, \$)|0, T=T+\text{Math.imul}(S, c)|0, J=(J+\text{Math.imul}(S, u)|0)+\text{Math.imul}(\_, c)|0, W=W+$   
 $\text{Math.imul}(\_, u)|0, T=T+\text{Math.imul}(y, g)|0, J=(J+\text{Math.imul}(y, w)|0)+\text{Math.imul}(M, g)|0, W=W+\text{Math.imul}(M, w)|0, T=T$   
 $+\text{Math.imul}(m, z)|0, J=(J+\text{Math.imul}(m, k)|0)+\text{Math.imul}(v, z)|0, W=W+\text{Math.imul}(v, k)|0; b=(e+(\text{Math.imul}(b, N)|0)$   
 $)|0)+((8191 \& (J=(J+\text{Math.imul}(b, L)|0)+\text{Math.imul}(l, N)|0)) \ll 13)|0; ee=((W+\text{Math.imul}(l, L)|0)+(J \gg 13)|0)+(b \gg 26$   
 $)|0, b \&= 67108863, T=\text{Math.imul}(E, K), J=\text{Math.imul}(E, V)+\text{Math.imul}(B, K)|0, W=\text{Math.imul}(B, V), T=T+\text{Math.imul}(P,$   
 $U)|0, J=(J+\text{Math.imul}(P, Y)|0)+\text{Math.imul}(j, U)|0, W=W+\text{Math.imul}(j, Y)|0, T=T+\text{Math.imul}(q, Q)|0, J=(J+\text{Math.imul}(q,$   
 $\$)|0)+\text{Math.imul}(R, Q)|0, W=W+\text{Math.imul}(R, \$)|0, T=T+\text{Math.imul}(x, c)|0, J=(J+\text{Math.imul}(x, u)|0)+\text{Math.imul}(I, c)|0,$   
 $W=W+\text{Math.imul}(I, u)|0, T=T+\text{Math.imul}(S, g)|0, J=(J+\text{Math.imul}(S, w)|0)+\text{Math.imul}(\_, g)|0, W=W+\text{Math.imul}(\_, w)|0$   
 $, T=T+\text{Math.imul}(y, z)|0, J=(J+\text{Math.imul}(y, k)|0)+\text{Math.imul}(M, z)|0, W=W+\text{Math.imul}(M, k)|0; m=(e+(\text{Math.imul}($   
 $m, N)|0)|0)+((8191 \& (J=(J+\text{Math.imul}(m, L)|0)+\text{Math.imul}(v, N)|0)) \ll 13)|0; ee=((W+\text{Math.imul}(v, L)|0)+(J \gg 13)|0)+$   
 $(m \gg 26)|0, m \&= 67108863, T=\text{Math.imul}(E, U), J=\text{Math.imul}(E, Y)+\text{Math.imul}(B, U)|0, W=\text{Math.imul}(B, Y), T=T+\text{Ma}$   
 $th.\text{imul}(P, Q)|0, J=(J+\text{Math.imul}(P, \$)|0)+\text{Math.imul}(j, Q)|0, W=W+\text{Math.imul}(j, \$)|0, T=T+\text{Math.imul}(q, c)|0, J=(J+\text{Math}$   
 $.\text{imul}(q, u)|0)+\text{Math.imul}(R, c)|0, W=W+\text{Math.imul}(R, u)|0, T=T+\text{Math.imul}(x, g)|0, J=(J+\text{Math.imul}(x, w)|0)+\text{Math.imul}$   
 $(I, g)|0, W=W+\text{Math.imul}(I, w)|0, T=T+\text{Math.imul}(S, z)|0, J=(J+\text{Math.imul}(S, k)|0)+\text{Math.imul}(\_, z)|0, W=W+\text{Math.imul}($   
 $\_, k)|0; y=(e+(\text{Math.imul}(y, N)|0)|0)+((8191 \& (J=(J+\text{Math.imul}(y, L)|0)+\text{Math.imul}(M, N)|0)) \ll 13)|0; ee=((W+\text{Mat}$   
 $h.\text{imul}(M, L)|0)+(J \gg 13)|0)+(y \gg 26)|0, y \&= 67108863, T=\text{Math.imul}(E, Q), J=\text{Math.imul}(E, \$)+\text{Math.imul}(B, Q)|0,$   
 $W=\text{Math.imul}(B, \$), T=T+\text{Math.imul}(P, c)|0, J=(J+\text{Math.imul}(P, u)|0)+\text{Math.imul}(j, c)|0, W=W+\text{Math.imul}(j, u)|0, T=T+$   
 $\text{Math.imul}(q, g)|0, J=(J+\text{Math.imul}(q, w)|0)+\text{Math.imul}(R, g)|0, W=W+\text{Math.imul}(R, w)|0, T=T+\text{Math.imul}(x, z)|0, J=(J+$

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Math.imul(x,k)|0)+Math.imul(I,z)|0,W=W+Math.imul(I,k)|0;S=(ee+(T+Math.imul(S,N)|0)|0)+((8191&(J=(J+Math.i
mul(S,L)|0)+Math.imul(_ ,N)|0))<<13)|0;ee=((W+Math.imul(_ ,L)|0)+(J>>>13)|0)+(S>>>26)|0,S&=67108863,T=Ma
th.imul(E,c),J=Math.imul(E,u)+Math.imul(B,c)|0,W=Math.imul(B,u),T=T+Math.imul(P,g)|0,J=(J+Math.imul(P,w)|
0)+Math.imul(j,g)|0,W=W+Math.imul(j,w)|0,T=T+Math.imul(q,z)|0,J=(J+Math.imul(q,k)|0)+Math.imul(R,z)|0,W=
W+Math.imul(R,k)|0;x=(ee+(T+Math.imul(x,N)|0)|0)+((8191&(J=(J+Math.imul(x,L)|0)+Math.imul(I,N)|0))<<13)|0
;ee=((W+Math.imul(I,L)|0)+(J>>>13)|0)+(x>>>26)|0,x&=67108863,T=Math.imul(E,g),J=Math.imul(E,w)+Math.i
mul(B,g)|0,W=Math.imul(B,w),T=T+Math.imul(P,z)|0,J=(J+Math.imul(P,k)|0)+Math.imul(j,z)|0,W=W+Math.imul(
j,k)|0;q=(ee+(T+Math.imul(q,N)|0)|0)+((8191&(J=(J+Math.imul(q,L)|0)+Math.imul(R,N)|0))<<13)|0;ee=((W+Math.
imul(R,L)|0)+(J>>>13)|0)+(q>>>26)|0,q&=67108863,T=Math.imul(E,z),J=Math.imul(E,k)+Math.imul(B,z)|0,W=M
ath.imul(B,k);P=(ee+(T+Math.imul(P,N)|0)|0)+((8191&(J=(J+Math.imul(P,L)|0)+Math.imul(j,N)|0))<<13)|0;ee=((
W+Math.imul(j,L)|0)+(J>>>13)|0)+(P>>>26)|0,P&=67108863;N=(ee+Math.imul(E,N)|0)+((8191&(J=Math.imul(E,
L)+Math.imul(B,N)|0))<<13)|0;return
ee=(Math.imul(B,L)+(J>>>13)|0)+(N>>>26)|0,N&=67108863,d[0]=X,d[1]=G,d[2]=n,d[3]=p,d[4]=A,d[5]=f,d[6]=r,
d[7]=e,d[8]=t,d[9]=a,d[10]=h,d[11]=b,d[12]=m,d[13]=y,d[14]=S,d[15]=x,d[16]=q,d[17]=P,d[18]=N,0!=ee&&(d[19
]=ee,i.length++),i};function a(e,t,i){return(new s).mulp(e,t,i)}function
s(e,t){this.x=e,this.y=t}Math.imul||(d=f),m.prototype.mulTo=function(e,t){var
i=this.length+e.length,t=(10===this.length&&10===e.length?d:i<63?f:i<1024?function(e,t,i){i.negative=t.negative^
e.negative,i.length=e.length+t.length;for(var r=0,f=0,d=0;d<i.length-1;d++){for(var
n=f,f=0,a=67108863&r,s=Math.min(d,t.length-1),c=Math.max(0,d-e.length+1);c<=s;c++){var h=d-
c,o=(0|e.words[h])*o|t.words[c],h=67108863&o,a=67108863&(h=h+a|0);f+=n=(n=n+(o/67108864|0)|0)+(h>>>2
6)|0)>>>26,n&=67108863}i.words[d]=a,r=n,n=f}return 0!==(r?i.words[d]=r:i.length--,i.strip()):a)(this,e,t);return
t},s.prototype.makeRBT=function(e){for(var t=new Array(e),i=m.prototype._countBits(e)-
1,r=0;r<e;r++)t[r]=this.revBin(r,i,e);return t},s.prototype.revBin=function(e,t,i){if(0===e||e===i-1)return e;for(var
r=0,f=0;f<t;f++)r|=(1&e)<<t-f-1,e>>=1;return r},s.prototype.permute=function(e,t,i,r,f,d){for(var
n=0;n<d;n++)r[n]=t[e[n]],f[n]=i[e[n]]},s.prototype.transform=function(e,t,i,r,f,d){this.permute(d,e,t,i,r,f);for(var
n=1;n<f;n<<=1)for(var a=n<<1,s=Math.cos(2*Math.PI/a),c=Math.sin(2*Math.PI/a),h=0;h<f;h+=a)for(var
o=s,u=c,b=0;b<n;b++){var l=i[h+b],p=r[h+b],m=o*(g=i[h+b+n])-
u*(v=r[h+b+n]),v=o*v+u*g,g=m;i[h+b]=l+g,r[h+b]=p+v,i[h+b+n]=l-g,r[h+b+n]=p-v,b!==(a&&(m=s*o-
c*u,u=s*u+c*o,o=m))},s.prototype.guessLen13b=function(e,t){for(var
e=1&(r=1|Math.max(t,e)),i=0,r=r/2|0;r>>>=1)i++;return
1<<i+1+e},s.prototype.conjugate=function(e,t,i){if(!(i<=1))for(var r=0;r<i/2;r++){var f=e[r];e[r]=e[i-r-1],e[i-r-
1]=f,f=t[r],t[r]=t[i-r-1],t[i-r-1]=f},s.prototype.normalize13b=function(e,t){for(var i=0,r=0;r<t/2;r++){var
f=8192*Math.round(e[2*r+1]/t)+Math.round(e[2*r]/t)+i;e[r]=67108863&f,i=f<67108864?f/67108864|0}return
e},s.prototype.convert13b=function(e,t,i,r){for(var
f=0,d=0;d<t;d++)f+=0|e[d],i[2*d]=8191&f,f>>>=13,i[2*d+1]=8191&f,f>>>=13;for(d=2*d;d<r;++d)i[d]=0;p(0===f
),p(0===(-8192&f)),s.prototype.stub=function(e){for(var t=new Array(e),i=0;i<e;i++)t[i]=0;return
t},s.prototype.mulp=function(e,t,i){var
r=2*this.guessLen13b(e.length,t.length),f=this.makeRBT(r),d=this.stub(r),n=new Array(r),a=new Array(r),s=new
Array(r),c=new Array(r),h=new Array(r),o=new
Array(r),u=i.words;u.length=r,this.convert13b(e.words,e.length,n,r),this.convert13b(t.words,t.length,c,r),this.transfor
m(n,d,a,s,r,f),this.transform(c,d,h,o,r,f);for(var
b=0;b<r;b++){var l=a[b]*h[b]-s[b]*o[b];s[b]=a[b]*o[b]+s[b]*h[b],a[b]=l}return
this.conjugate(a,s,r),this.transform(a,s,u,d,r,f),this.conjugate(u,d,r),this.normalize13b(u,r),i.negative=e.negative^t.ne
gative,i.length=e.length+t.length,i.strip()),m.prototype.mul=function(e){var t=new m(null);return t.words=new
Array(this.length+e.length),this.mulTo(e,t),m.prototype.mulf=function(e){var t=new m(null);return t.words=new
Array(this.length+e.length),a(this,e,t),m.prototype.imul=function(e){return
this.clone().mulTo(e,this)},m.prototype.imuln=function(e){p("number"===typeof e),p(e<67108864);for(var
t=0,i=0;i<this.length;i++){var

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r=(0|this.words[i])*e,f=(67108863&r)+(67108863&t);t>>=26,t+=r/67108864|0,t+=f>>>26,this.words[i]=67108863
&f}return 0!==(t&&(this.words[i]=t,this.length++),this),m.prototype.mul=function(e){return
this.clone().imuln(e)},m.prototype.sqr=function(){return this.mul(this)},m.prototype.isqr=function(){return
this.imul(this.clone())},m.prototype.pow=function(e){var
t=function(e){for(var t=new Array(e.bitLength()),i=0;i<t.length;i++){var
r=i/26|0,f=i%26;t[i]=(e.words[r]&1<<f)>>>f}return t}(e);if(0===t.length)return new m(1);for(var
i=this,r=0;r<t.length&&0===t[r];r++,i=i.sqr());if(++r<t.length)for(var
f=i.sqr();r<t.length;r++,f=f.sqr())0!==(t[r]&&(i=i.mul(f)));return
i},m.prototype.iushln=function(e){p("number"===typeof e&&0<=e);var t=e%26,i=(e-t)/26,r=67108863>>>26-
t<<<26-t;if(0!=t){for(var f=0,d=0;d<this.length;d++){var n=this.words[d]&r,a=(0|this.words[d])-
n<<<t;this.words[d]=a|f,n>>>26-t}f&&(this.words[d]=f,this.length++)}if(0!=i){for(d=this.length-1;0<=d;d--
)this.words[d+i]=this.words[d];for(d=0;d<i;d++)this.words[d]=0;this.length+=i}return
this.strip()},m.prototype.ishln=function(e){return
p(0===this.negative),this.iushln(e)},m.prototype.iushrn=function(e,t,i){var r;p("number"===typeof
e&&0<=e),r=t?(t-t%26)/26:0;var f=e%26,d=Math.min((e-f)/26,this.length),n=67108863^67108863>>>f<<<f,a=i;if(r-
=d,r=Math.max(0,r),a){for(var
s=0;s<d;s++)a.words[s]=this.words[s];a.length=d}if(0!==d)if(this.length>d)for(this.length-
=d,s=0;s<this.length;s++)this.words[s]=this.words[s+d];else this.words[0]=0,this.length=1;for(var
c=0,s=this.length-1;0<=s&&(0!==(c||r<=s);s--){var h=0|this.words[s];this.words[s]=c<<<26-f|h>>>f,c=h&n}return
a&&0!==(c&&(a.words[a.length++]=c),0===this.length&&(this.words[0]=0,this.length=1),this.strip())},m.prototype.
ishrn=function(e,t,i){return p(0===this.negative),this.iushrn(e,t,i)},m.prototype.shln=function(e){return
this.clone().ishln(e)},m.prototype.ushln=function(e){return
this.clone().iushln(e)},m.prototype.shrn=function(e){return
this.clone().ishrn(e)},m.prototype.ushrn=function(e){return
this.clone().iushrn(e)},m.prototype.testn=function(e){p("number"===typeof e&&0<=e);var t=e%26,e=(e-
t)/26,t=1<<<t;return!(this.length<=e)&&!(this.words[e]&t)},m.prototype.imaskn=function(e){p("number"===typeof
e&&0<=e);var t=e%26,e=(e-t)/26;return p(0===this.negative,"imaskn works only
with positive
numbers"),this.length<=e?this:(0!=t&&e++,this.length=Math.min(e,this.length),0!=t&&(t=67108863^67108863>>
>t<<<t,this.words[this.length-1]&t),this.strip())},m.prototype.maskn=function(e){return
this.clone().imaskn(e)},m.prototype.iaddn=function(e){return p("number"===typeof
e),p(e<67108864),e<0?this.isubn(-e):0!==(this.negative?(1===this.length&&(0|this.words[0])<e?(this.words[0]=e-
(0|this.words[0]),this.negative=0):(this.negative=0,this.isubn(e),this.negative=1),this):this._iaddn(e)},m.prototype._i
addn=function(e){this.words[0]+=e;for(var t=0;t<this.length&&67108864<=this.words[t];t++)this.words[t]-
=67108864,t===this.length-1?this.words[t+1]=1:this.words[t+1]++;return
this.length=Math.max(this.length,t+1),this},m.prototype.isubn=function(e){if(p("number"===typeof
e),p(e<67108864),e<0)return this.iaddn(-e);if(0===this.negative)return
this.negative=0,this.iaddn(e),this.negative=1,this;if(this.words[0]-
=e,1===this.length&&this.words[0]<0)this.words[0]=-this.words[0],this.negative=1;else
for(var t=0;t<this.length&&this.words[t]<0;t++)this.words[t]+=67108864,--this.words[t+1];return
this.strip()},m.prototype.addn=function(e){return this.clone().iaddn(e)},m.prototype.subn=function(e){return
this.clone().isubn(e)},m.prototype.iabs=function(){return this.negative=0,this},m.prototype.abs=function(){return
this.clone().iabs()},m.prototype._ishlnsubmul=function(e,t,i){var r,f=e.length+i;this._expand(f);for(var
d=0,n=0;n<e.length;n++){r=(0|this.words[n+i])+d;var a=(0|e.words[n])*t,d=((r-67108863&a)>>>26)-
(a/67108864|0);this.words[n+i]=67108863&r}for(;n<this.length-
i;n++)d=(r=(0|this.words[n+i])+d)>>>26,this.words[n+i]=67108863&r;if(0===d)return this.strip();for(p(-
1===d),n=d=0;n<this.length;n++)d=(r=-0|this.words[n])+d)>>>26,this.words[n]=67108863&r;return
this.negative=1,this.strip()),m.prototype._wordDiv=function(e,t){var i=this.length-

```



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e.length,r=this.clone(),f=e,d=0|f.words[f.length-1];0!=(i=26-
this._countBits(d))&&(f=f.ushln(i),r.iushln(i),d=0|f.words[f.length-1]);var
n,a=r.length-f.length;if("mod"!==t){(n=new m(null)).length=1+a,n.words=new Array(n.length);for(var
s=0;s<n.length;s++)n.words[s]=0}e=r.clone()._ishlnsubmul(f,1,a);0===e.negative&&(r=e,n&&(n.words[a]=1));for(
var c=a-1;0<=c;c--){var h=67108864*(0|r.words[f.length+c])+(0|r.words[f.length+c-
1]),h=Math.min(h/d|0,67108863);for(r._ishlnsubmul(f,h,c);0!==r.negative;h--
,r.negative=0,r._ishlnsubmul(f,1,c),r.isZero()||(r.negative^=1);n&&(n.words[c]=h)}return
n&&n.strip(),r.strip(),"div"!==t&&0!=i&&r.iushrn(i),{div:n||null,mod:r}},m.prototype.divmod=function(e,t){retur
n p(!e.isZero()),this.isZero()?{div:new m(0),mod:new
m(0)}:0!==this.negative&&0===e.negative?(d=this.neg().divmod(e,t),"mod"!==t&&(r=d.div.neg()),"div"!==t&&(f
=d.mod.neg()),i&&0!==f.negative&&f.iadd(e),{div:r,mod:f}):0===this.negative&&0===e.negative?(d=this.divmod
(e.neg(),t),{div:r="mod"!==t?d.div.neg():r,mod:d.mod}):0!=(this.negative&e.negative)?(d=this.neg().divmod(e.neg(
)),t),"div"!==t&&(f=d.mod.neg()),i&&0!==f.negative&&f.isub(e),{div:d.div,mod:f}):e.length>this.length||this.cmp(
e)<0?{div:new
m(0),mod:this}:1===e.length?"div"===t?{div:this.divn(e.words[0]),mod:null}:"mod"===t?{div:null,mod:new
m(this.modn(e.words[0]))}:{div:this.divn(e.words[0]),mod:new m(this.modn(e.words[0]))}:this._wordDiv(e,t);var
r,f,d},m.prototype.div=function(e){return this.divmod(e,"div",!1).div},m.prototype.mod=function(e){return
this.divmod(e,"mod",!1).mod},m.prototype.umod=function(e){return
this.divmod(e,"mod",!0).mod},m.prototype.divRound=function(e){var t=this.divmod(e);if(t.mod.isZero())return
t.div;var i=0!==t.div.negative?t.mod.isub(e):t.mod,r=e.ushrn(1),e=e.andln(1),r=i.cmp(r);return
r<0||1===e&&0===r?t.div:0!==t.div.negative?t.div.isubn(1):t.div.iaddn(1)},m.prototype.modn=function(e){p(e<=6
7108863);for(var t=(1<<26)%e,i=0,r=this.length-1;0<=r;r--)=t*i+(0|this.words[r])%e;return
i},m.prototype.idivn=function(e){p(e<=67108863);for(var t=0,i=this.length-1;0<=i;i--){var
r=(0|this.words[i])+67108864*t;this.words[i]=r/e|0,t=r%e}return
this.strip()},m.prototype.divn=function(e){return
this.clone().idivn(e)},m.prototype.egcd=function(e){p(0===e.negative),p(!e.isZero());for(var
t=this,i=e.clone(),t=0!==t.negative?t.umod(e):t.clone(),r=new m(1),f=new m(0),d=new m(0),n=new
m(1),a=0;t.isEven()&&i.isEven();t.iushrn(1),i.iushrn(1),++a;for(var s=i.clone(),c=t.clone();!t.isZero();){for(var
h=0,o=1;0==(t.words[0]&o)&&h<26;++h,o<=1);if(0<h)for(t.iushrn(h);0<h--
);(r.isOdd()|f.isOdd())&&(r.iadd(s),f.isub(c)),r.iushrn(1),f.iushrn(1);for(var
u=0,b=1;0==(i.words[0]&b)&&u<26;++u,b<=1);if(0<u)for(i.iushrn(u);0<u--
);(d.isOdd()|n.isOdd())&&(d.iadd(s),n.isub(c)),d.iushrn(1),n.iushrn(1);0<=t.cmp(i)?(t.isub(i),r.isub(d),f.isub(n)):i.is
ub(t),d.isub(r),n.isub(f))return{a:d,b:n,gcd:i.iushln(a)},m.prototype._invmp=function(e){p(0===e.negative),p(!e.i
sZero());for(var t,i=this,r=e.clone(),i=0!==i.negative?i.umod(e):i.clone(),f=new m(1),d=new
m(0),n=r.clone();0<i.cmpn(1)&&0<r.cmpn(1);){for(var
a=0,s=1;0==(i.words[0]&s)&&a<26;++a,s<=1);if(0<a)for(i.iushrn(a);0<a--
);f.isOdd()&&f.iadd(n),f.iushrn(1);for(var
c=0,h=1;0==(r.words[0]&h)&&c<26;++c,h<=1);if(0<c)for(r.iushrn(c);0<c--
);d.isOdd()&&d.iadd(n),d.iushrn(1);0<=i.cmp(r)?(i.isub(r),f.isub(d)):r.isub(i),d.isub(f)}return(t=0===i.cmpn(1)?f:
d).cmpn(0)<0&&t.iadd(e),t},m.prototype.gcd=function(e){if(this.isZero())return e.abs();if(e.isZero())return
this.abs();var t=this.clone(),i=e.clone();t.negative=0;for(var
r=i.negative=0;t.isEven()&&i.isEven();r++)t.iushrn(1),i.iushrn(1);for(;;){for(;t.isEven();t.iushrn(1);for(;i.isEven();i
.iushrn(1);var f=t.cmp(i);if(f<0)var d=t,t=i,i=d;else if(0===f|0===i.cmpn(1))break;t.isub(i)}return
i.iushln(r)},m.prototype.invmp=function(e){return this.egcd(e).a.umod(e)},m.prototype.isEven=function(){return
0==(1&this.words[0])},m.prototype.isOdd=function(){return
1==(1&this.words[0])},m.prototype.andln=function(e){return
this.words[0]&e},m.prototype.bincn=function(e){p("number"===typeof e);var t=e%26,e=(e-
t)/26,t=1<<t;if(this.length<=e)return

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this._expand(1+e),this.words[e]=t,this;for(var i=t,r=e;0!==(i&&r<this.length;r++){var
f=0|this.words[r],i=(f+=i)>>>26;f&=67108863,this.words[r]=f)return
0!==(i&&(this.words[r]=i,this.length++),this),m.prototype.isZero=function(){return
1===this.length&&0===this.words[0]},m.prototype.cmpn=function(e){var t=e<0;return
0===this.negative||t?0===this.negative&&t?1:(this.strip(),e=1<this.length?1:(p((e=t?-e:e)<=67108863,"Number is
too big"),(t=0|this.words[0])===e?0:t<e?-1:1),0!==(this.negative?0|-e:e):-
1},m.prototype.cmp=function(e){if(0!==(this.negative&&0===e.negative)return-
1;if(0===this.negative&&0===e.negative)return 1;e=this.ucmp(e);return 0!==(this.negative?0|-
e:e),m.prototype.ucmp=function(e){if(this.length>e.length)return 1;if(this.length<e.length)return-1;for(var
t=0,i=this.length-1;0<=i;i--){var r=0|this.words[i],f=0|e.words[i];if(r!=f){r<f?t=-1:f<r&&(t=1);break}}return
t},m.prototype.gtn=function(e){return 1===this.cmpn(e)},m.prototype.gt=function(e){return
1===this.cmp(e)},m.prototype.gten=function(e){return
0<=this.cmpn(e)},m.prototype.gte=function(e){return 0<=this.cmp(e)},m.prototype.ltn=function(e){return-
1===this.cmpn(e)},m.prototype.lt=function(e){return-1===this.cmp(e)},m.prototype.lten=function(e){return
this.cmpn(e)<=0},m.prototype.lte=function(e){return this.cmp(e)<=0},m.prototype.eqn=function(e){return
0===this.cmpn(e)},m.prototype.eq=function(e){return 0===this.cmp(e)},m.red=function(e){return new
w(e)},m.prototype.toRed=function(e){return p(!this.red,"Already a number in reduction
context"),p(0===this.negative,"red works only with
positives"),e.convertTo(this)._forceRed(e)},m.prototype.fromRed=function(){return p(this.red,"fromRed works
only with numbers in reduction context"),this.red.convertFrom(this)},m.prototype._forceRed=function(e){return
this.red=e,this},m.prototype.forceRed=function(e){return p(!this.red,"Already a number in reduction
context"),this._forceRed(e)},m.prototype.redAdd=function(e){return p(this.red,"redAdd works
only with red numbers"),this.red.add(this,e)},m.prototype.redIAdd=function(e){return p(this.red,"redIAdd works
only with red numbers"),this.red.iadd(this,e)},m.prototype.redSub=function(e){return p(this.red,"redSub works only
with red numbers"),this.red.sub(this,e)},m.prototype.redISub=function(e){return p(this.red,"redISub works only
with red numbers"),this.red.isub(this,e)},m.prototype.redShl=function(e){return p(this.red,"redShl works only with
red numbers"),this.red.shl(this,e)},m.prototype.redMul=function(e){return p(this.red,"redMul works only with red
numbers"),this.red._verify2(this,e),this.red.mul(this,e)},m.prototype.redIMul=function(e){return p(this.red,"redMul
works only with red numbers"),this.red._verify2(this,e),this.red.imul(this,e)},m.prototype.redSqr=function(){return
p(this.red,"redSqr works only with red
numbers"),this.red._verify1(this),this.red.sqr(this)},m.prototype.redISqr=function(){return p(this.red,"redISqr works
only with red numbers"),this.red._verify1(this),this.red.isqr(this)},m.prototype.redSqrt=function(){return
p(this.red,"redSqrt works only with red
numbers"),this.red._verify1(this),this.red.sqrt(this)},m.prototype.redInvM=function(){return p(this.red,"redInvM
works only with red numbers"),this.red._verify1(this),this.red.invm(this)},m.prototype.redNeg=function(){return
p(this.red,"redNeg works only with red
numbers"),this.red._verify1(this),this.red.neg(this)},m.prototype.redPow=function(e){return
p(this.red&&!e.red,"redPow(normalNum)"),this.red._verify1(this),this.red.pow(this,e)};var
c={k256:null,p224:null,p192:null,p25519:null};function h(e,t){this.name=e,this.p=new
m(t,16),this.n=this.p.bitLength(),this.k=new m(1).iushln(this.n).isub(this.p),this.tmp=this._tmp()}function
v(){h.call(this,"k256","ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff
ffffffffe fffffc2f")}function
g(){h.call(this,"p224","ffffffff ffffffff ffffffff ffffffff 00000000 00000000 00000001")}function
y(){h.call(this,"p192","ffffffff ffffffff ffffffff ffffffff
ffffffff ffffffff")}function M(){h.call(this,"25519","7fffffffffffffff ffffffffffffffff ffffffffffffffff
ffffffffffffffed")}function w(e){var t;"string"===typeof
e?(t=m._prime(e),this.m=t.p,this.prime=t):(p(e.gtn(1),"modulus must be greater than
1"),this.m=e,this.prime=null)}function
S(e){w.call(this,e),this.shift=this.m.bitLength(),this.shift%26!=0&&(this.shift+=26-this.shift%26),this.r=new

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m(1).iushln(this.shift),this.r2=this.imod(this.r.sqr()),this.rinv=this.r._invmp(this.m),this.minv=this.rinv.mul(this.r).is
ubn(1).div(this.m),this.minv=this.minv.umod(this.r),this.minv=this.r.sub(this.minv)}h.prototype._tmp=function(){v
ar e=new m(null);return e.words=new Array(Math.ceil(this.n/13),e),h.prototype.ireduce=function(e){for(var
t,i=e;this.split(i,this.tmp),t=(i=(i=this.imulK(i)).iadd(this.tmp)).bitLength(),t>this.n;);e=t<this.n?-
1:i.ucmp(this.p);return 0===e?(i.words[0]=0,i.length=1):0<e?i.isub(this.p):void
0!==(i.strip?i.strip():i._strip(),i),h.prototype.split=function(e,t){e.iushrn(this.n,0,t)},h.prototype.imulK=function(e){r
eturn
e.imul(this.k)},i(v,h),v.prototype.split=function(e,t){for(var
i=Math.min(e.length,9),r=0;r<i;r++)t.words[r]=e.words[r];if(t.length=i,e.length<=9)return
e.words[0]=0,void(e.length=1);var f=e.words[9];for(t.words[t.length++]=4194303&f,r=10;r<e.length;r++){var
d=0|e.words[r];e.words[r-10]=(4194303&d)<<4|f>>>22,f=d}f>>>=22,0===e.words[r-
10]=f)&&10<e.length?e.length-=10:e.length-
=9},v.prototype.imulK=function(e){e.words[e.length]=0,e.words[e.length+1]=0,e.length+=2;for(var
t=0,i=0;i<e.length;i++){var r=0|e.words[i];t+=977*r,e.words[i]=67108863&t,t=64*r+(t/67108864|0)}return
0===e.words[e.length-1]&&(e.length--,0===e.words[e.length-1]&&e.length--
),e},i(g,h),i(y,h),i(M,h),M.prototype.imulK=function(e){for(var t=0,i=0;i<e.length;i++){var
r=19*(0|e.words[i])+t,f=67108863&r;r>>>=26,e.words[i]=f,t=r}return
0!==(t&&(e.words[e.length++]=t),e),m._prime=function(e){if(c[e])return c[e];var t;if("k256"===e)t=new v;else
if("p224"===e)t=new g;else if("p192"===e)t=new
y;else if("p25519"!==e)throw new Error("Unknown prime "+e);t=new M}return
c[e]=t},w.prototype._verify1=function(e){p(0===e.negative,"red works only with positives"),p(e.red,"red works
only with red numbers")},w.prototype._verify2=function(e,t){p(0==(e.negative|t.negative),"red works only with
positives"),p(e.red&&e.red===t.red,"red works only with red
numbers")},w.prototype.imod=function(e){return(this.prime?this.prime.ireduce(e):e.umod(this.m))._forceRed(this)}
,w.prototype.neg=function(e){return
e.isZero()?e.clone():this.m.sub(e)._forceRed(this)},w.prototype.add=function(e,t){this._verify2(e,t);t=e.add(t);return
0<=t.cmp(this.m)&&t.isub(this.m),t._forceRed(this)},w.prototype.iadd=function(e,t){this._verify2(e,t);t=e.iadd(t);re
turn 0<=t.cmp(this.m)&&t.isub(this.m),t},w.prototype.sub=function(e,t){this._verify2(e,t);t=e.sub(t);return
t.cmpn(0)<0&&t.iadd(this.m),t._forceRed(this)},w.prototype.isub=function(e,t){this._verify2(e,t);t=e.isub(t);return
t.cmpn(0)<0&&t.iadd(this.m),t},w.prototype.shl=function(e,t){return
this._verify1(e),this.imod(e.ushln(t))},w.prototype.imul=function(e,t){return
this._verify2(e,t),this.imod(e.imul(t))},w.prototype.mul=function(e,t){return
this._verify2(e,t),this.imod(e.mul(t))},w.prototype.isqr=function(e){return
this.imul(e,e.clone())},w.prototype.sqr=function(e){return
this.mul(e,e)},w.prototype.sqrt=function(e){if(e.isZero())return e.clone();var
t=this.m.andln(3);if(p(t%2==1),3===t){t=this.m.add(new m(1)).iushrn(2);return this.pow(e,t)}for(var
i=this.m.subn(1),r=0;!i.isZero()&&0===i.andln(1);r++,i.iushrn(1);p(!i.isZero());for(var f=new
m(1).toRed(this),d=f.redNeg(),n=this.m.subn(1).iushrn(1),a=new
m(2*(a=this.m.bitLength()*a).toRed(this);0!==(this.pow(a,n).cmp(d));a.redIAdd(d);for(var
s=this.pow(a,i),c=this.pow(e,i.addn(1).iushrn(1)),h=this.pow(e,i),o=r;0!==(h.cmp(f);){for(var
u=h,b=0;0!==(u.cmp(f);b++)u=u.redSqr();p(b<o);var l=this.pow(s,new m(1).iushln(o-b-
1)),c=c.redMul(l),s=l.redSqr(),h=h.redMul(s),o=b}return
c},w.prototype.invmp=function(e){e=e._invmp(this.m);return
0!==(e.negative?(e.negative=0,this.imod(e).redNeg()):this.imod(e)),w.prototype.pow=function(e,t){if(t.isZero())retu
rn new m(1).toRed(this);if(0===t.cmpn(1))return e.clone();var i=new Array(16);i[0]=new
m(1).toRed(this),i[1]=e;for(var r=2;r<i.length;r++)i[r]=this.mul(i[r-1],e);var
f=i[0],d=0,n=0,a=t.bitLength()%26;for(0===a&&(a=26),r=t.length-1;0<=r;r--){for(var s=t.words[r],c=a-1;0<=c;c--
){var

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h=s>>c&1;f!==(f[0]&&(f=this.sqr(f)),0)!=(h||0)!==(d<<=1,d|h,(4===++n||0===r&&0===c)&&(f=this.mul(f,i[d]),d
=n=0)):n=0;a=26}return f},w.prototype.convertTo=function(e){var t=e.umod(this.m);return
t===e?t.clone():t},w.prototype.convertFrom=function(e){e=e.clone();return
e.red=null,e},m.mont=function(e){return new S(e)},i(S,w),S.prototype.convertTo=function(e){return
this.imod(e.usln(this.shift))},S.prototype.convertFrom=function(e){e=this.imod(e.mul(this.rinv));return
e.red=null,e},S.prototype.imul=function(e,t){if(e.isZero()||t.isZero())return
e.words[0]=0,e.length=1,e;e=e.imul(t),t=e.maskn(this.shift).mul(this.minv).imaskn(this.shift).mul(this.m),e=e.isub(t
).iushrn(this.shift),t=e;return
0<=e.cmp(this.m)?t=e.isub(this.m):e.cmpn(0)<0&&(t=e.iadd(this.m)),t._forceRed(this)},S.prototype.mul=function(
e,t){if(e.isZero()||t.isZero())return new
m(0)._forceRed(this);e=e.mul(t),t=e.maskn(this.shift).mul(this.minv).imaskn(this.shift).mul(this.m),e=e.isub(t).iushr
n(this.shift),t=e;return
0<=e.cmp(this.m)?t=e.isub(this.m):e.cmpn(0)<0&&(t=e.iadd(this.m)),t._forceRed(this)},S.prototype.invm=function
(e){return this.imod(e._invmp(this.m).mul(this.r2))._forceRed(this)}(void
0===e|e,this)},{buffer:18}],17:[function(e,t,i){var r;function
f(e){this.rand=e}if(t.exports=function(e){return(r=r||new
f(null)).generate(e)},(t.exports.Rand=f).prototype.generate=function(e){return
this._rand(e)},f.prototype._rand=function(e){if(this.rand.getBytes)return this.rand.getBytes(e);for(var t=new
Uint8Array(e),i=0;i<t.length;i++)t[i]=this.rand.getByte();return t},"object"===typeof
self)self.crypto&&self.crypto.getRandomValues?f.prototype._rand=function(e){e=new Uint8Array(e);return
self.crypto.getRandomValues(e,e):self.msCrypto&&self.msCrypto.getRandomValues?f.prototype._rand=function(
e){e=new Uint8Array(e);return self.msCrypto.getRandomValues(e,e):"object"===typeof
window&&(f.prototype._rand=function(){throw new Error("Not implemented yet")});else try{var
d=e("crypto");if("function"!==typeof d.randomBytes)throw new Error("Not
supported");f.prototype._rand=function(e){return
d.randomBytes(e)}catch(e){}},{crypto:18}],18:[function(e,t,i){},{}],19:[function(e,t,i){i.utils=e("./hash/utils"),i.co
mmon=e("./hash/common"),i.sha=e("./hash/sha"),i.ripemd=e("./hash/ripemd"),i.hmac=e("./hash/hmac"),i.sha1=i.sha
.sha1,i.sha256=i.sha.sha256,i.sha224=i.sha.sha224,i.sha384=i.sha.sha384,i.sha512=i.sha.sha512,i.ripemd160=i.ripe
md.ripemd160},{"/hash/common":20,"/hash/hmac":21,"/hash/ripemd":22,"/hash/sha":23,"/hash/utils":30}],20:[fu
nction(e,t,i){"use strict";var
r=e("./utils"),f=e("minimalistic-assert");function
d(){this.pending=null,this.pendingTotal=0,this.blockSize=this.constructor.blockSize,this.outSize=this.constructor.o
utSize,this.hmacStrength=this.constructor.hmacStrength,this.padLength=this.constructor.padLength/8,this.endian="
big",this._delta8=this.blockSize/8,this._delta32=this.blockSize/32}(i.BlockHash=d).prototype.update=function(e,t){
if(e=r.toArray(e,t),this.pending?this.pending=this.pending.concat(e):this.pending=e,this.pendingTotal+=e.length,this
.pending.length>=this._delta8){t=(e=this.pending).length%this._delta8;this.pending=e.slice(e.length-
t,e.length),0===this.pending.length&&(this.pending=null),e=r.join32(e,0,e.length-t,this.endian);for(var
i=0;i<e.length;i+=this._delta32)this._update(e,i+i*this._delta32)}return this},d.prototype.digest=function(e){return
this.update(this._pad()),f(null===this.pending),this._digest(e)},d.prototype._pad=function(){var
e=this.pendingTotal,t=this._delta8,i=t-(e+this.padLength)%t,r=new Array(i+this.padLength);r[0]=128;for(var
f=1;f<i;f++)r[f]=0;if(e<<=3,"big"===this.endian){for(var
d=8;d<this.padLength;d++)r[f++]=0;r[f++]=0,r[f++]=0,r[f++]=0,r[f++]=0,r[f++]=0,r[f++]=e>>>24&255,r[f++]=e>>>16&25
5,r[f++]=e>>>8&255,r[f++]=255&e}else
for(r[f++]=255&e,r[f++]=e>>>8&255,r[f++]=e>>>16&255,r[f++]=e>>>24&255,r[f++]=0,r[f++]=0,r[f++]=0,r[f++
]=0,d=8;d<this.padLength;d++)r[f++]=0;return r},{"/utils":30,"minimalistic-assert":33}],21:[function(e,t,i){"use
strict";var r=e("./utils"),f=e("minimalistic-assert");function d(e,t,i){if(!(this instanceof d))return new
d(e,t,i);this.Hash=e,this.blockSize=e.blockSize/8,this.outSize=e.outSize/8,this.inner=null,this.outer=null,this._init(r.t
oArray(t,i))(t.exports=d).prototype._init=function(e){e.length>this.blockSize&&(e=(new

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this.Hash).update(e).digest(),f(e.length<=this.blockSize);for(var
t=e.length;t<this.blockSize;t++)e.push(0);for(t=0;t<e.length;t++)e[t]^=54;for(this.inner=(new
this.Hash).update(e),t=0;t<e.length;t++)e[t]^=106;this.outer=(new
this.Hash).update(e)},d.prototype.update=function(e,t){return
  this.inner.update(e,t),this},d.prototype.digest=function(e){return
this.outer.update(this.inner.digest()),this.outer.digest(e)}},{"/utils":30,"minimalistic-
assert":33}],22:[function(e,t,i){"use strict";var
r=e("./utils"),e=e("./common"),p=r.rotl32,m=r.sum32,v=r.sum32_3,g=r.sum32_4,f=e.BlockHash;function
d(){if(!(this instanceof d))return new
d;f.call(this),this.h=[1732584193,4023233417,2562383102,271733878,3285377520],this.endian="little"}function
y(e,t,i,r){return
e<=15?t^i^r:e<=31?t&i|~t&r:e<=47?(t|~i)^r:e<=63?t&r|i&~r:t^(i|~r)}r.inherits(d,f),(i.ripemd160=d).blockSize=512,
d.outSize=160,d.hmacStrength=192,d.padLength=64,d.prototype._update=function(e,t){for(var
i,r=h=this.h[0],f=l=this.h[1],d=b=this.h[2],n=u=this.h[3],a=o=this.h[4],s=0;s<80;s++)var
c=m(p(g(h,y(s,l,b,u),e[M[s]+t]),(i=s)<=15?0:i<=31?1518500249:i<=47?1859775393:i<=63?2400959708:284085383
8),S[s]),o),h=o,o=u,u=p(b,10),b=l,l=c,c=m(p(g(r,y(79-
s,f,d,n),e[w[s]+t]),(i=s)<=15?1352829926:i<=31?1548603684:i<=47?1836072691:i<=63?2053994217:0),_s]),a,r=a
,a=n,n=p(d,10),d=f,f=c;c=v(this.h[1],b,n),this.h[1]=v(this.h[2],u,a),this.h[2]=v(this.h[3],o,r),this.h[3]=v(this.h[4],h,f)
,this.h[4]=v(this.h[0],l,d),this.h[0]=c,d.prototype._digest=function(e){return"hex"===e?r.toHex32(this.h,"little"):r.
split32(this.h,"little");var
M=[0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,7,4,13,1,10,6,15,3,12,0,9,5,2,14,11,8,3,10,14,4,9,15,8,1,2,7,0,6,13,11,5,12,
1,9,11,10,0,8,12,4,13,3,7,15,14,5,6,2,4,0,5,9,7,12,2,10,14,1,3,8,11,6,15,13],w=[5,14,7,0,9,2,11,4,13,6,15,8,1,10,3,12
,6,11,3,7,0,13,5,10,14,15,8,12,4,9,1,2,15,5,1,3,7,14,6,9,11,8,12,2,10,0,4,13,8,6,4,1,3,11,15,0,5,12,2,13,9,7,10,14,12,
15,10,4,1,5,8,7,6,2,13,14,0,3,9,11],S=[11,14,15,12,5,8,7,9,11,13,14,15,6,7,9,8,7,6,8,13,11,9,7,15,7,12,15,9,11,7,13,1
2,11,13,6,7,14,9,13,15,14,8,13,6,5,12,7,5,11,12,14,15,14,15,9,8,9,14,5,6,8,6,5,12,9,15,5,11,6,8,13,12,5,12,13,14,11,
8,5,6],_=[8,9,9,11,13,15,15,5,7,7,8,11,14,14,12,6,9,13,15,7,12,8,9,11,7,7,12,7,6,15,13,11,9,7,15,11,8,6,6,14,12,13,5,
14,13,13,7,5,15,5,8,11,14,14,6,14,6,9,12,9,12,5,15,8,8,5,12,9,12,5,14,6,8,13,6,5,15,13,11,11]},{"./common":20,"/ut
ils":30}],23:[function(e,t,i){"use
strict";i.sha1=e("./sha/1"),i.sha224=e("./sha/224"),i.sha256=e("./sha/256"),i.sha384=e("./sha/384"),i.sha512=e("./sha
/512")},{"/sha/1":24,"./sha/224":25,"./sha/256":26,"./sha/384":27,"./sha/512":28}],24:[function(e,t,i){"use
strict";var
r=e("./utils"),f=e("./common"),e=e("./common"),h=r.rotl32,o=r.sum32,u=r.sum32_5,b=e.ft_1,d=f.BlockHash,l=[15
18500249,1859775393,2400959708,3395469782];function n(){if(!(this instanceof n))return new
n;d.call(this),this.h=[1732584193,4023233417,2562383102,271733878,3285377520],this.W=new
Array(80)}r.inherits(n,d),(t.exports=n).blockSize=512,n.outSize=160,n.hmacStrength=80,n.padLength=64,n.prototy
pe._update=function(e,t){for(var i=this.W,r=0;r<16;r++)i[r]=e[t+r];for(;r<i.length;r++)i[r]=h(i[r-3]^i[r-8]^i[r-
14]^i[r-16],1);for(var f=this.h[0],d=this.h[1],n=this.h[2],a=this.h[3],s=this.h[4],r=0;r<i.length;r++)var
c=~~(r/20),c=u(h(f,5),b(c,d,n,a),s,i[r],l[c]),s=a,a=n,n=h(d,30),d=f,f=c;this.h[0]=o(this.h[0],f),this.h[1]=o(this.h[1],d),
this.h[2]=o(this.h[2],n),this.h[3]=o(this.h[3],a),this.h[4]=o(this.h[4],s)},n.prototype._digest=function(e){return"hex"
===e?r.toHex32(this.h,"big"):r.split32(this.h,"big")},{"/common":20,"./utils":30,"./common":29}],25:[function(e
,t,i){"use strict";var r=e("./utils"),f=e("./256");function d(){if(!(this instanceof d))return new
d;f.call(this),this.h=[3238371032,914150663,812702999,4144912697,4290775857,1750603025,1694076839,32040
75428]}r.inherits(d,f),(t.exports=d).blockSize=512,d.outSize=224,d.hmacStrength=192,d.padLength=64,d.prototype
._digest=function(e){return"hex"===e?r.toHex32(this.h.slice(0,7),"big"):r.split32(this.h.slice(0,7),"big")},{"/utils
":30,"./256":26}],26:[function(e,t,i){"use strict";var
r=e("./utils"),f=e("./common"),d=e("./common"),l=e("minimalistic-
assert"),p=r.sum32,m=r.sum32_4,v=r.sum32_5,g=d.ch32,y=d.maj32,M=d.s0_256,w=d.s1_256,S=d.g0_256,_=d.g1_
256,n=f.BlockHash,a=[1116352408,1899447441,3049323471,3921009573,961987163,1508970993,2453635748,28

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70763221,3624381080,310598401,607225278,1426881987,1925078388,2162078206,2614888103,3248222580,383
5390401,4022224774,264347078,604807628,770255983,1249150122,1555081692,1996064986,2554220882,28218
34349,2952996808,3210313671,3336571891,3584528711,113926993,338241895,666307205,773529912,12947573
72,1396182291,1695183700,1986661051,2177026350,2456956037,2730485921,2820302411,3259730800,3345764
771,3516065817,3600352804,4094571909,275423344,430227734,506948616,659060556,883997877,958139571,1
322822218,1537002063,1747873779,1955562222,2024104815,2227730452,2361852424,2428436474,2756734187,
3204031479,3329325298];function
s(){if(!(this instanceof s))return new
s;n.call(this),this.h=[1779033703,3144134277,1013904242,2773480762,1359893119,2600822924,528734635,1541
459225],this.k=a,this.W=new
Array(64)}r.inherits(s,n),(t.exports=s).blockSize=512,s.outSize=256,s.hmacStrength=192,s.padLength=64,s.prototy
pe._update=function(e,t){for(var
i=this.W,r=0;r<16;r++)i[r]=e[t+r];for(;r<i.length;r++)i[r]=m(_(i[r-2]),i[r-7],S(i[r-15]),i[r-16]);var
f=this.h[0],d=this.h[1],n=this.h[2],a=this.h[3],s=this.h[4],c=this.h[5],h=this.h[6],o=this.h[7];for(l(this.k.length===i.l
ength),r=0;r<i.length;r++)var
u=v(o,w(s),g(s,c,h),this.k[r],i[r]),b=p(M(f),y(f,d,n)),o=h,h=c,c=s,s=p(a,u),a=n,n=d,d=f,f=p(u,b);this.h[0]=p(this.h[0]
,f),this.h[1]=p(this.h[1],d),this.h[2]=p(this.h[2],n),this.h[3]=p(this.h[3],a),this.h[4]=p(this.h[4],s),this.h[5]=p(this.h[5]
,c),this.h[6]=p(this.h[6],h),this.h[7]=p(this.h[7],o)},s.prototype._digest=function(e){return"hex"===e?r.toHex32(thi
s.h,"big"):r.split32(this.h,"big")},{"/.common":20,"./utils":30,"./common":29,"minimalistic-
assert":33}],27:[function(e,t,i){"use strict";var r=e("./utils"),f=e("./512");function d(){if(!(this instanceof d))return
new
d;f.call(this),this.h=[3418070365,3238371032,1654270250,914150663,2438529370,812702999,355462360,414491
2697,1731405415,4290775857,2394180231,1750603025,3675008525,1694076839,1203062813,3204075428]}r.inh
erits(d,f),(t.exports=d).blockSize=1024,d.outSize=384,d.hmacStrength=192,d.padLength=128,d.prototype._digest=f
unction(e){return"hex"===e?r.toHex32(this.h.slice(0,12),"big"):r.split32(this.h.slice(0,12),"big")},{"/.utils":30,"./
512":28}],28:[function(e,t,i){"use
strict";var r=e("./utils"),f=e("./common"),P=e("minimalistic-
assert"),j=r.rotr64_hi,N=r.rotr64_lo,u=r.shr64_hi,b=r.shr64_lo,E=r.sum64,B=r.sum64_hi,L=r.sum64_lo,l=r.sum64_
4_hi,p=r.sum64_4_lo,O=r.sum64_5_hi,F=r.sum64_5_lo,d=f.BlockHash,n=[1116352408,3609767458,1899447441,
602891725,3049323471,3964484399,3921009573,2173295548,961987163,4081628472,1508970993,3053834265,2
453635748,2937671579,2870763221,3664609560,3624381080,2734883394,310598401,1164996542,607225278,13
23610764,1426881987,3590304994,1925078388,4068182383,2162078206,991336113,2614888103,633803317,324
8222580,3479774868,3835390401,2666613458,4022224774,944711139,264347078,2341262773,604807628,20078
00933,770255983,1495990901,1249150122,1856431235,1555081692,3175218132,1996064986,2198950837,25542
20882,3999719339,2821834349,766784016,2952996808,2566594879,3210313671,3203337956,3336571891,10344
57026,3584528711,2466948901,113926993,3758326383,338241895,168717936,666307205,1188179964,77352991
2,1546045734,1294757372,1522805485,1396182291,2643833823,1695183700,2343527390,1986661051,10144774
80,2177026350,1206759142,2456956037,344077627,2730485921,1290863460,2820302411,3158454273,32597308
00,3505952657,3345764771,106217008,3516065817,3606008344,3600352804,1432725776,4094571909,14670315
94,275423344,851169720,430227734,3100823752,506948616,1363258195,659060556,3750685593,883997877,37
85050280,958139571,3318307427,1322822218,3812723403,1537002063,2003034995,1747873779,3602036899,19
55562222,1575990012,2024104815,1125592928,2227730452,2716904306,2361852424,442776044,2428436474,59
3698344,2756734187,3733110249,3204031479,2999351573,3329325298,3815920427,3391569614,3928383900,35
15267271,566280711,3940187606,3454069534,4118630271,4000239992,116418474,1914138554,174292421,2731
055270,289380356,3203993006,460393269,320620315,685471733,587496836,852142971,1086792851,101703629
8,365543100,1126000580,2618297676,1288033470,3409855158,1501505948,4234509866,1607167915,987167468
,1816402316,1246189591];function

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a(){if(!(this instanceof a))return new
a;d.call(this),this.h=[1779033703,4089235720,3144134277,2227873595,1013904242,4271175723,2773480762,159
5750129,1359893119,2917565137,2600822924,725511199,528734635,4215389547,1541459225,327033209],this.k
=n,this.W=new
Array(160)}r.inherits(a,d),(t.exports=a).blockSize=1024,a.outSize=512,a.hmacStrength=192,a.padLength=128,a.pro
totype._prepareBlock=function(e,t){for(var i=this.W,r=0;r<32;r++)i[r]=e[t+r];for(;r<i.length;r+=2){var
f=function(e,t){var i=j(e,t,19),r=j(t,e,29),t=u(e,t,6),t=i^r^t;t<0&&(t+=4294967296);return t}(i[r-4],i[r-
3]),d=function(e,t){var i=N(e,t,19),r=N(t,e,29),t=b(e,t,6),t=i^r^t;t<0&&(t+=4294967296);return
t}(i[r-4],i[r-3]),n=i[r-14],a=i[r-13],s=function(e,t){var
i=j(e,t,1),r=j(e,t,8),t=u(e,t,7),t=i^r^t;t<0&&(t+=4294967296);return t}(i[r-30],i[r-29]),c=function(e,t){var
i=N(e,t,1),r=N(e,t,8),t=b(e,t,7),t=i^r^t;t<0&&(t+=4294967296);return t}(i[r-30],i[r-29]),h=i[r-32],o=i[r-
31];i[r]=l(f,d,n,a,s,c,h,o),i[r+1]=p(f,d,n,a,s,c,h,o)},a.prototype._update=function(e,t){this._prepareBlock(e,t);var
i=this.W,r=this.h[0],f=this.h[1],d=this.h[2],n=this.h[3],a=this.h[4],s=this.h[5],c=this.h[6],h=this.h[7],o=this.h[8],u=t
his.h[9],b=this.h[10],l=this.h[11],p=this.h[12],m=this.h[13],v=this.h[14],g=this.h[15];P(this.k.length===i.length);for
(var y=0;y<i.length;y+=2)var M=v,w=g,S=function(e,t){var
i=j(e,t,14),r=j(e,t,18),e=j(t,e,9),e=i^r^e;e<0&&(e+=4294967296);return e}(o,u),_=function(e,t){var
i=N(e,t,14),r=N(e,t,18),e=N(t,e,9),e=i^r^e;e<0&&(e+=4294967296);return
e}(o,u),A=function(e,t,i){i=e&t^~e&i;i<0&&(i+=4294967296);return
i}(o,b,p),x=function(e,t,i){i=e&t^~e&i;i<0&&(i+=4294967296);return
i}(u,l,m),I=this.k[y],z=this.k[y+1],q=i[y],R=i[y+1],k=O(M,w,S,_,A,x,I,z,q,R),q=F(M,w,S,_,A,x,I,z,q,R),M=functio
n(e,t){var i=j(e,t,28),r=j(t,e,2),e=j(t,e,7),e=i^r^e;e<0&&(e+=4294967296);return e}(r,f),w=function(e,t){var
i=N(e,t,28),r=N(t,e,2),e=N(t,e,7),e=i^r^e;e<0&&(e+=4294967296);return
e}(r,f),S=function(e,t,i){i=e&t^e&i^t&i;i<0&&(i+=4294967296);return
i}(r,d,a),_=function(e,t,i){i=e&t^e&i^t&i;i<0&&(i+=4294967296);return
i}(f,n,s),R=B(M,w,S,_,_=L(M,w,S,_,v=p,g=m,p=b,m=l,b=o,l=u,o=B(c,h,k,q),u=L(h,h,k,q),c=a,h=s,a=d,s=n,d=r,n
=f,r=B(k,q,R,_)f=L(k,q,R,_)E(this.h,0,r,f),E(this.h,2,d,n),E(this.h,4,a,s),E(this.h,6,c,h),E(this.h,8,o,u),E(this.h,10,b
,l),E(this.h,12,p,m),E(this.h,14,v,g)},a.prototype._digest=function(e){return"hex"===e?r.toHex32(this.h,"big"):r.split
32(this.h,"big")},{"../common":20,"../utils":30,"minimalistic-assert":33}],29:[function(e,t,i){"use strict";var
r=e("../utils").rotr32;function f(e,t,i){return e&t^~e&i}function d(e,t,i){return
e&t^e&i^t&i}function n(e,t,i){return e^t^i}i.ft_1=function(e,t,i,r){return
0===e?f(t,i,r):1===e||3===e?t^i^r:2===e?d(t,i,r):void 0},i.ch32=f,i.maj32=d,i.p32=n,i.s0_256=function(e){return
r(e,2)^r(e,13)^r(e,22)},i.s1_256=function(e){return r(e,6)^r(e,11)^r(e,25)},i.g0_256=function(e){return
r(e,7)^r(e,18)^e>>>3},i.g1_256=function(e){return
r(e,17)^r(e,19)^e>>>10},{"../utils":30}],30:[function(e,t,i){"use strict";var s=e("minimalistic-
assert"),e=e("inherits");function d(e){return(e>>>24|e>>>8&65280|e<<<8&16711680|(255&e)<<<24)>>>0}function
r(e){return 1===e.length?"0"+e:e}function n(e){return
7===e.length?"0"+e:6===e.length?"00"+e:5===e.length?"000"+e:4===e.length?"0000"+e:3===e.length?"00000"+
e:2===e.length?"000000"+e:1===e.length?"0000000"+e;}i.inherits=e,i.toArray=function(e,t){if(Array.isArray(e))r
eturn e.slice();if(!e)return[];var i,r,f=[];if("string"===typeof e)if(t){if("hex"===t)for((e=e.replace(/[\^a-z0-
9]+/gi,"")).length%2!=0&&(e="0"+e),n=0;n<e.length;n+=2)f.push(parseInt(e[n]+e[n+1],16))}else
for(var d=0,n=0;n<e.length;n++){var
a=e.charCodeAtAt(n);a<128?f[d++]=a:a<2048?(f[d++]=a>>>6|192,f[d++]=63&a|128):(r=n,55296!==(64512&(i=e).char
CodeAtAt(r))|r<0||r+1>=i.length||56320!==(64512&i.charCodeAtAt(r+1))?f[d++]=a>>>12|224:(a=65536+((1023&a)<<<10)
+(1023&e.charCodeAtAt(++n)),f[d++]=a>>>18|240,f[d++]=a>>>12&63|128),f[d++]=a>>>6&63|128,f[d++]=63&a|128)}
else for(n=0;n<e.length;n++)f[n]=0|e[n];return f},i.toHex=function(e){for(var
t="",i=0;i<e.length;i++)t+=r(e[i]).toString(16);return t},i.htonl=d,i.toHex32=function(e,t){for(var
i="",r=0;r<e.length;r++){var f=e[r];i+=n((f="little"===t?f:d(f):f).toString(16))}return
i},i.zero2=r,i.zero8=n,i.join32=function(e,t,i,r){s((i-t)%4===0);for(var f=new
```

```

Array(i/4,d=0,n=t;d<f.length;d++,n+=4){ var
a="big"===r?e[n]<<24|e[n+1]<<16|e[n+2]<<8|e[n+3]:e[n+3]<<24|e[n+2]<<16|e[n+1]<<8|e[n];f[d]=a>>>0}return
f},i.split32=function(e,t){for(var i=new Array(4*e.length),r=0,f=0;r<e.length;r++,f+=4){var
d=e[r];"big"===t?(i[f]=d>>>24,i[f+1]=d>>>16&255,i[f+2]=d>>>8&255,i[f+3]=255&d):(i[f+3]=d>>>24,i[f+2]=d>
>>16&255,i[f+1]=d>>>8&255,i[f]=255&d)}return
i},i.rotr32=function(e,t){return e>>>t|e<<<32-t},i.rotl32=function(e,t){return e<<<t|e>>>32-
t},i.sum32=function(e,t){return e+t>>>0},i.sum32_3=function(e,t,i){return
e+t+i>>>0},i.sum32_4=function(e,t,i,r){return e+t+i+r>>>0},i.sum32_5=function(e,t,i,r,f){return
e+t+i+r+f>>>0},i.sum64=function(e,t,i,r){ var
f=e[t],d=r+e[t+1]>>>0,f=(d<r?1:0)+i+f;e[t]=f>>>0,e[t+1]=d},i.sum64_hi=function(e,t,i,r){return(t+r>>>0<t?1:0)+e
+i>>>0},i.sum64_lo=function(e,t,i,r){return t+r>>>0},i.sum64_4_hi=function(e,t,i,r,f,d,n,a){ var s=0,c=t;return
s+=(c=c+r>>>0)<t?1:0,s+=(c=c+d>>>0)<d?1:0,e+i+f+n+(s+=(c=c+a>>>0)<a?1:0)>>>0},i.sum64_4_lo=function(e
,t,i,r,f,d,n,a){return t+r+d+a>>>0},i.sum64_5_hi=function(e,t,i,r,f,d,n,a,s,c){ var h=0,o=t;return
h+=(o=o+r>>>0)<t?1:0,h+=(o=o+d>>>0)<d?1:0,h+=(o=o+a>>>0)<a?1:0,e+i+f+n+s+(h+=(o=o+c>>>0)<c?1:0)>>
>0},i.sum64_5_lo=function(e,t,i,r,f,d,n,a,s,c){return t+r+d+a+c>>>0},i.rotr64_hi=function(e,t,i){return(t<<32-
i|e>>>i)>>>0},i.rotr64_lo=function(e,t,i){return(e<<<32-i|t>>>i)>>>0},i.shr64_hi=function(e,t,i){return
e>>>i},i.shr64_lo=function(e,t,i){return(e<<<32-i|t>>>i)>>>0}},{inherits:32,"minimalistic-
assert":33}],31:[function(e,t,i){ "use strict";var r=e("hash.js"),d=e("minimalistic-crypto-utils"),f=e("minimalistic-
assert");function n(e){if(!(this instanceof n))return new
n(e);this.hash=e.hash,this.predResist=!e.predResist,this.outLen=this.hash.outSize,this.minEntropy=e.minEntropy||t
his.hash.hmacStrength,this._reseed=null,this.reseedInterval=null,this.K=null,this.V=null;var
t=d.toArray(e.entropy,e.entropyEnc||"hex"),i=d.toArray(e.nonce,e.nonceEnc||"hex"),e=d.toArray(e.pers,e.persEnc||"
hex");f(t.length>=this.minEntropy/8,"Not enough entropy. Minimum is: "+this.minEntropy+"
bits"),this._init(t,i,e)(t.exports=n).prototype._init=function(e,t,i){i=e.concat(t).concat(i);this.K=new
Array(this.outLen/8),this.V=new Array(this.outLen/8);for(var
r=0;r<this.V.length;r++)this.K[r]=0,this.V[r]=1;this._update(i),this._reseed=1,this.reseedInterval=28147497671065
6},n.prototype._hmac=function(){return
new r.hmac(this.hash,this.K)},n.prototype._update=function(e){var
t=this._hmac().update(this.V).update([0]);e&&(t=t.update(e)),this.K=t.digest(),this.V=this._hmac().update(this.V).d
igest(),e&&(this.K=this._hmac().update(this.V).update([1]).update(e).digest(),this.V=this._hmac().update(this.V).di
gest())},n.prototype.reseed=function(e,t,i,r){ "string"!==typeof
t&&(r=i,i=t,t=null),e=d.toArray(e,t),i=d.toArray(i,r),f(e.length>=this.minEntropy/8,"Not enough entropy. Minimum
is: "+this.minEntropy+"
bits"),this._update(e.concat(i||[])),this._reseed=1},n.prototype.generate=function(e,t,i,r){if(this._reseed>this.reseedIn
terval)throw new Error("Reseed is required");"string"!==typeof
t&&(r=i,i=t,t=null),i&&(i=d.toArray(i,r||"hex"),this._update(i));for(var
f=[];f.length<e;){this.V=this._hmac().update(this.V).digest(),f=f.concat(this.V);r=f.slice(0,e);return
this._update(i),this._reseed++,d.encode(r,t)},{ "hash.js":19,"minimalistic-assert":33,"minimalistic-crypto-
utils":34}],32:[function(e,t,i){ "function"===typeof
Object.create?t.exports=function(e,t){t&&(e.super_=t,e.prototype=Object.create(t.prototype,{ constructor: { value:e,e
numerable:!1,writable:!0,configurable:!0 } })):t.exports=function(e,t){ var
i;t&&(e.super_=t,(i=function(){}).prototype=t.prototype,e.prototype=new
i,e.prototype.constructor=e)},{},33:[function(e,t,i){function r(e,t){if(!e)throw new Error(t||"Assertion
failed")}(t.exports=r).equal=function(e,t,i){if(e!==t)throw new Error(i||"Assertion failed: "+e+" !=
"+t)},{},34:[function(e,t,i){ "use strict";function r(e){return 1===e.length?"0"+e:e}function f(e){for(var
t="",i=0;i<e.length;i++)t+=r(e[i]).toString(16);return t}i.toArray=function(e,t){if(Array.isArray(e))return
e.slice();if(!e)return[];var i=[];if("string"!==typeof e){for(var r=0;r<e.length;r++)i[r]=0|e[r];return
i}if("hex"===t){(e=e.replace(/[^a-z0-

```



```
9]+/gi,"").length%2!=0&&(e="0"+e);for(r=0;r<e.length;r+=2)i.push(parseInt(e[r]+e[r+1],16))}else
for(r=0;r<e.length;r++){var f=e.charCodeAt(r),d=f>>8,f=255&f;d?i.push(d,f):i.push(f)}return
i},i.zero2=r,i.toHex=f,i.encode=function(e,t){return"hex"===t?f(e):e}},{}},35:[function(e,t,i){t.exports={name:"elli
ptic",version:"6.5.4",description:"EC cryptography",main:"lib/elliptic.js",files:["lib"],scripts:{lint:"eslint lib
test","lint:fix":"npm run lint -- --fix",unit:"istanbul test _mocha --reporter=spec test/index.js",test:"npm run lint &&
npm run unit",version:"grunt dist && git add
dist/"},"repository":{"type:"git",url:"git@github.com:indutny/elliptic"},"keywords":["EC","Elliptic","curve","Cryptograp
hy"],author:"Fedor Indutny
<fedor@indutny.com>","license:"MIT",bugs:{url:"https://github.com/indutny/elliptic/issues"},"homepage:"https://git
hub.com/indutny/elliptic",devDependencies:{brfs:"^2.0.2",coveralls:"^3.1.0",eslint:"^7.6.0",grunt:"^1.2.1","grunt-
browserify":"^5.3.0","grunt-cli":"^1.3.2","grunt-contrib-connect":"^3.0.0","grunt-contrib-copy":"^1.0.0","grunt-
contrib-uglify":"^5.0.0","grunt-mocha-istanbul":"^5.0.2","grunt-
saucelabs":"^9.0.1",istanbul:"^0.4.5",mocha:"^8.0.1"},"dependencies":{"bn.js":"^4.11.9",brorand:"^1.1.0","hash.js":"
^1.0.0","hmac-drbg":"^1.0.1",inherits:"^2.0.4","minimalistic-assert":"^1.0.1","minimalistic-crypto-
utils":"^1.0.1"}}},{}},{},[1])(1));
```

Found

in path(s):

```
* /opt/cola/permits/1142867241_1615482365.9/0/indutny-elliptic-v6-5-4-0-g43ac7f2-1-tar-gz/indutny-elliptic-
956793a/dist/elliptic.min.js
```

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

```
// Apache License 2.0
```

Found in path(s):

```
* /opt/cola/permits/1142867241_1615482365.9/0/indutny-elliptic-v6-5-4-0-g43ac7f2-1-tar-gz/indutny-elliptic-
956793a/dist/elliptic.js
```

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Found in path(s):

```
* /opt/cola/permits/1142867241_1615482365.9/0/indutny-elliptic-v6-5-4-0-g43ac7f2-1-tar-gz/indutny-elliptic-
956793a/README.md
```

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```
/*
```

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\*/

Found in path(s):

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/\*

\* Curve 25519-based cryptography collection.

\*

\* EC Diffie-Hellman (ECDH) based on Curve25519 and digital signatures (EdDSA)

\* based on Ed25519.

\*

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/\*\*

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\* see: <http://github.com/jrburke/almond> for details

\*/

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Found in path(s):

\* /opt/cola/permits/1142867241\_1615482365.9/0/indutny-elliptic-v6-5-4-0-g43ac7f2-1-tar-gz/indutny-elliptic-956793a/benchmarks/deps/jodid.js

# 1.777 inf v0.9.1

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# 1.781 compress 1.19

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# 1.782 jackson 2.10.5

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# 1.783 jackson-annotations 2.10.5

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```

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# 1.792 jcabi-log 0.14

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- \* /opt/cola/permits/1145228681\_1618217528.32/0/jcabi-log-0-14-sources-2-jar/com/jcabi/log/SecretDecor.java
- \* /opt/cola/permits/1145228681\_1618217528.32/0/jcabi-log-0-14-sources-2-jar/com/jcabi/log/Logger.java
- \* /opt/cola/permits/1145228681\_1618217528.32/0/jcabi-log-0-14-sources-2-jar/com/jcabi/log/VerboseThreads.java
- \*
- /opt/cola/permits/1145228681\_1618217528.32/0/jcabi-log-0-14-sources-2-jar/com/jcabi/log/MsDecor.java
- \* /opt/cola/permits/1145228681\_1618217528.32/0/jcabi-log-0-14-sources-2-jar/com/jcabi/log/PreFormatter.java
- \* /opt/cola/permits/1145228681\_1618217528.32/0/jcabi-log-0-14-sources-2-jar/com/jcabi/log/package-info.java
- \* /opt/cola/permits/1145228681\_1618217528.32/0/jcabi-log-0-14-sources-2-
- jar/com/jcabi/log/VerboseRunnable.java
- \* /opt/cola/permits/1145228681\_1618217528.32/0/jcabi-log-0-14-sources-2-jar/com/jcabi/log/ExceptionDecor.java
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- \* /opt/cola/permits/1145228681\_1618217528.32/0/jcabi-log-0-14-sources-2-jar/com/jcabi/log/TypeDecor.java
- \* /opt/cola/permits/1145228681\_1618217528.32/0/jcabi-log-0-14-sources-2-jar/com/jcabi/log/ListDecor.java
- \*
- /opt/cola/permits/1145228681\_1618217528.32/0/jcabi-log-0-14-sources-2-jar/com/jcabi/log/SizeDecor.java
- \* /opt/cola/permits/1145228681\_1618217528.32/0/jcabi-log-0-14-sources-2-
- jar/com/jcabi/log/MulticolorLayout.java
- \* /opt/cola/permits/1145228681\_1618217528.32/0/jcabi-log-0-14-sources-2-jar/com/jcabi/log/VerboseProcess.java
- \* /opt/cola/permits/1145228681\_1618217528.32/0/jcabi-log-0-14-sources-2-jar/com/jcabi/log/DecorException.java
- \* /opt/cola/permits/1145228681\_1618217528.32/0/jcabi-log-0-14-sources-2-jar/com/jcabi/log/TextDecor.java
- \* /opt/cola/permits/1145228681\_1618217528.32/0/jcabi-log-0-14-sources-2-jar/com/jcabi/log/DecorsManager.java

# 1.793 regexp 2.7.2

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- \* /opt/cola/permits/1134796780\_1613422074.14/0/archive-259-zip/CharArrayCharacterIterator.java
- \* /opt/cola/permits/1134796780\_1613422074.14/0/archive-259-zip/RETest.java
- \* /opt/cola/permits/1134796780\_1613422074.14/0/archive-259-zip/StringCharacterIterator.java

# 1.794 minlog 1.3.0

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## 1.795 reflectasm 1.10.1

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\* /opt/cola/permits/1145449535\_1616181967.19/0/reflectasm-1-10-1-sources-3-jar/com/esotericsoftware/reflectasm/PublicConstructorAccess.java  
\* /opt/cola/permits/1145449535\_1616181967.19/0/reflectasm-1-10-1-sources-3-jar/com/esotericsoftware/reflectasm/MethodAccess.java  
\*  
/opt/cola/permits/1145449535\_1616181967.19/0/reflectasm-1-10-1-sources-3-jar/com/esotericsoftware/reflectasm/FieldAccess.java  
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# 1.797 jackson-databind-nullable 0.2.1

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As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library.

Defining a subclass of a class defined by the Library is

deemed a mode  
of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

#### 1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

#### 2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

- a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or
- b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

#### 3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates

(ten or fewer lines in length), you do both of the following:

- a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.
- b) Accompany the object code with a copy of the GNU GPL and this license document.

#### 4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

- a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.
- b) Accompany the Combined Work with a copy of the GNU GPL and this license document.
- c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

## 5. Combined Libraries.

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 that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.
- b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

## 6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide

whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

# 1.801 sqlite 3.27.2-3+deb10u1

## 1.801.1 Available under license :

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

```
<html>
<title>SQLite Copyright Release Template</title>
<body bgcolor="white">
<h1 align="center">
Copyright Release for<br>
Contributions To SQLite
</h1>

<p>
SQLite is software that implements an embeddable SQL database engine.
SQLite is available for free download from http://www.sqlite.org/.
The principal author and maintainer of SQLite has disclaimed all
copyright interest in his contributions to SQLite
and thus released his contributions into the public domain.
In order to keep the SQLite software unencumbered by copyright
claims, the principal author asks others who may from time to
time contribute changes and enhancements to likewise disclaim
their own individual copyright interest.
</p>

<p>
Because the SQLite software found at http://www.sqlite.org/ is in the
public domain, anyone is free to download the SQLite software
from that website, make changes to the software, use, distribute,
or sell the modified software,
under either the original name or
under some new name, without any need to obtain permission, pay
royalties, acknowledge the original source of the software, or
in any other way compensate, identify, or notify the original authors.
Nobody is in any way compelled to contribute their SQLite changes and
enhancements back to the SQLite website. This document concerns
only changes and enhancements to SQLite that are intentionally and
deliberately contributed back to the SQLite website.
</p>

<p>
For the purposes of this document, "SQLite software" shall mean any
```

computer source code, documentation, makefiles, test scripts, or other information that is published on the SQLite website, <http://www.sqlite.org/>. Precompiled binaries are excluded from the definition of "SQLite software" in this document because the process of compiling the software may introduce information from outside sources which is not properly a part of SQLite.

</p>

<p>

The header comments on the SQLite source

files exhort the reader to

share freely and to never take more than one gives.

In the spirit of that exhortation I make the following declarations:

</p>

<ol>

<li><p>

I dedicate to the public domain

any and all copyright interest in the SQLite software that

was publicly available on the SQLite website (<http://www.sqlite.org/>) prior to the date of the signature below and any changes or enhancements to the SQLite software

that I may cause to be published on that website in the future.

I make this dedication for the benefit of the public at large and

to the detriment of my heirs and successors. I intend this

dedication to be an overt act of relinquishment in perpetuity of

all present and future rights to the SQLite software under copyright

law.

</p></li>

<li><p>

To the best of my knowledge and belief, the changes and enhancements that

I have contributed to SQLite are either originally written by me

or are derived from prior works which I have verified are also

in the public domain

and are not subject to claims of copyright

by other parties.

</p></li>

<li><p>

To the best of my knowledge and belief, no individual, business, organization, government, or other entity has any copyright interest

in the SQLite software as it existed on the

SQLite website as of the date on the signature line below.

</p></li>

<li><p>

I agree never to publish any additional information

to the SQLite website (by CVS, email, scp, FTP, or any other means) unless that information is an original work of authorship by me or is derived from prior published versions of SQLite.

I agree never to copy and paste code into the SQLite code base from other sources.

I agree never to publish on the SQLite website any information that would violate a law or breach a contract.

</p></li>

</ol>

<p>

<table width="100%" cellpadding="0" cellspacing="0">

<tr>

<td width="60%" valign="top">

Signature:

<p>&nbsp;</p>

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<p>&nbsp;</p>

</td><td valign="top" align="left">

Date:

</td></tr>

<td colspan=2>

Name

(printed):

</td>

</tr>

</table>

</body>

</html>

Found in path(s):

\* /opt/cola/permits/1146776895\_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/copyright-release.html

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application code is free to use these routines as well, if desired.

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<dd><p>The psow query parameter works with the default windows and unix VFSes but might be a no-op for other proprietary or non-standard VFSes.

<dd><p>One might, for example, want to query all objects that overlap with the 35th parallel: SELECT id FROM demo\_index WHERE maxY>=35.0 AND minY<=35.0; But, generally speaking, the more constraints that the R\*Tree module has to work with, and the smaller the bounding box, the faster the results will come back. 3.4. Roundoff Error By default, coordinates are stored in an R\*Tree using 32-bit floating point values. When a coordinate cannot be exactly represented by a 32-bit floating point number, the lower-bound coordinates are rounded down and the upper-bound coordinates are rounded up. Thus, bounding boxes might be slightly larger than



specified, but will never be any smaller. This is exactly what is desired for doing the more common "overlapping" queries where the application

wants to find every entry in the R\*Tree that overlaps a query bounding box. Rounding the entry bounding boxes outward might cause a few extra entries to appear in an overlapping query if the edge of the entry bounding box corresponds to an edge of the query bounding box. But the overlapping query will never miss a valid table entry. However, for a "contained-within" style query, rounding the bounding boxes outward might cause some entries to be excluded from the result set if the edge of the entry bounding box corresponds to the edge of the query bounding box. To guard against this, applications should expand their contained-within query boxes slightly (by 0.000012%) by rounding down the lower coordinates and rounding up the top coordinates, in each dimension. 4. Using R\*Trees Effectively For SQLite versions prior to 3.24.0 (2018-06-04), the only information that an R\*Tree index stores about an object is its integer ID and its bounding box. Additional information needs to be stored

in separate tables and related to the R\*Tree index using the primary key. For the example above, one might create an auxiliary table as follows: `CREATE TABLE demo_data( id INTEGER PRIMARY KEY, -- primary key objname TEXT, -- name of the object objtype TEXT, -- object type boundary BLOB -- detailed boundary of object );` In this example, the `demo_data.boundary` field is intended to hold some kind of binary representation of the precise boundaries of the object. The R\*Tree index only holds an axis-aligned rectangular boundary for the object. The R\*Tree boundary is just an approximation of the true object boundary. So what typically happens is that the R\*Tree index is used to narrow a search down to a list of candidate objects and then more detailed and expensive computations are done on each candidate to find if the candidate truly meets the search criteria. Key Point: An R\*Tree index does not normally provide the exact answer but merely reduces the set of potential answers from millions to

dozens. Suppose the `demo_data.boundary` field holds some proprietary data description of a complex two-dimensional boundary for an object and suppose that the application has used the `sqlite3_create_function()` interface to create application-defined functions "contained\_in" and "overlaps" accepting two `demo_data.boundary` objects and return true or false. One may assume that "contained\_in" and "overlaps" are relatively slow functions that we do not want to invoke too frequently. Then an efficient way to find the name of all objects located within the North Carolina 12th District, one may be to run a query like this: `SELECT objname FROM demo_data, demo_index WHERE demo_data.id=demo_index.id AND contained_in(demo_data.boundary, :boundary) AND minX>=-81.0 AND maxX<=-79.6 AND minY>=35.0 AND maxY>=36.2;` In the query above, one would presumably bind the binary BLOB description of the precise boundary of the 12th district to the `:boundary` parameter. Notice how the query above works: The R\*Tree

index runs in the outer loop to find entries that are contained within the bounding box of longitude -81..-79.6 and latitude 35.0..36.2. For each object identifier found, SQLite looks up the corresponding entry in the `demo_data` table. It then uses the `boundary` field from the `demo_data` table as a parameter to the `contained_in()` function and if that function returns true, the `objname` field from the `demo_data` table is returned as the next row of query result. One would get the same answer without the use of the R\*Tree index using the following simpler query: `SELECT objname FROM demo_data WHERE contained_in(demo_data.boundary, :boundary);` The problem with this latter query is that it must apply the `contained_in()` function to millions of entries in the `demo_data` table. The use of the R\*Tree in the penultimate query reduces the number of calls to `contained_in()` function to a small subset of the entire table. The R\*Tree index did not find the exact answer itself, it merely limited the search

space. 4.1. Auxiliary Columns Beginning with SQLite version 3.24.0 (2018-06-04), r-tree tables can have auxiliary columns that store arbitrary data. Auxiliary columns can be used in place of secondary tables such as "demo\_data". Auxiliary columns are marked with a "+" symbol before the column name. Auxiliary columns must come after all of the coordinate boundary columns. There is a limit of no more than 100 auxiliary columns. The following example shows an r-tree table with auxiliary columns that is equivalent to the two tables "demo\_index" and "demo\_data" above: `CREATE VIRTUAL TABLE demo_index2 USING rtree( id, -- Integer primary key minX, maxX, -- Minimum and maximum X coordinate minY, maxY, -- Minimum and maximum Y coordinate +objname TEXT, -- name of the object +objtype TEXT, -- object type +boundary BLOB -- detailed boundary of object );`

Found in path(s):

\* /opt/cola/permits/1146776895\_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/requirements.html

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

<p>SQLite itself is in the <a href="copyright.html">public domain</a> and can be used for any purpose. But TH3 is proprietary and requires a license.

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<h2>SQLite Is Public Domain</h2>

<a href="http://en.wikipedia.org/wiki/Public\_Domain">Public Domain</a>

<a href="http://en.wikipedia.org/wiki/Public\_Domain">public domain</a>

the public domain and originals of

author, and all of those authors have public domain dedications

domain and ensure that the code does not become contaminated with proprietary

SQLite is in the public domain and does not require a license.

the public domain. </li>

have the legal right to dedicate the SQLite to the public domain, and

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SQLite core and like the SQLite core are in the public domain. The

The <b><a href="th3.html">TH3</a></b> test harness is a set of proprietary tests, written in

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data, so do not send the ".fullschema" output of a proprietary database

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<p><b>Public domain</b></p>

The source code for SQLite is in the public domain. No claim of copyright

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proprietary. The TH3 code is only accessible to SQLite developers.

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application is free to use the same <a href="..c3ref/sqlite3.html">database connection</a> or the

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<html>

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<p>FOR IMMEDIATE RELEASE:</p>

<h2 align="center">SQLite Consortium Launches With Mozilla And Symbian As Charter Members</h2>

<h3 align="center">Ensures independent technical direction for world's  
most deployed SQL database engine</h3>

<p><b>Charlotte, North Carolina - December 12, 2007</b> - The SQLite Consortium,  
a new membership association dedicated to maintaining SQLite as a fully open  
and independent product, was formally announced today. Mozilla and Symbian Ltd.  
have joined the SQLite Consortium as charter members.</p>

<p>SQLite is a compact, high efficiency, high reliability, embeddable SQL database  
engine. The source code to SQLite is in the public domain and is available with  
no associated fees. SQLite is the most deployed SQL database engine in the world  
and is currently used in a wide range of commercial software products and electronic  
devices from leading manufacturers.

SQLite is found today in many mobile phones,  
MP3 players, set-top boxes, and PCs.</p>

<p>The mission of the SQLite Consortium is to continue developing and enhancing SQLite as a product that anyone may use without paying royalties or licensing fees. Members of the SQLite Consortium provide funding to enable this mission and in return receive enterprise-level technical support. Technical control and direction of SQLite remains entirely with the SQLite developers.</p>

<p>Mozilla, developer of the popular open-source Firefox web browser, and Symbian, the market-leading open operating system for advanced data-enabled smartphones, both deploy the SQLite database engine in their products. As charter members of the Consortium, Mozilla and Symbian are ensuring the development and support of SQLite as a freely accessible and public domain software asset.</p>

<p>"SQLite has become a popular embedded database because it is lightweight, fast, and open source," said Michael Schroepfer, Vice President of Engineering, Mozilla. "As a charter member of the SQLite Consortium, Mozilla is excited to help ensure SQLite remains a vibrant and open technology, in line with our mission to promote choice and innovation on the Internet."</p>

<p>"The SQLite Consortium will help set the standards for database management which are essential in smartphone functionality and will also help create a pool of developers, highly-skilled in SQLite for future mobile phone development, " said Bruce Carney, Director, Developer Programmes & Services, Symbian. "Our involvement with the SQL Consortium not only demonstrates Symbian's commitment to open standards in the industry, but as mobile phones become increasingly powerful and smartphones become increasingly popular, we are focused on ensuring that desktop developers, who move to the mobile space, have the easiest and most productive experience possible."</p>

<p>SQLite is a winner of the 2005 Google/O'Reilly Open Source Award. Additional information regarding the SQLite Consortium is available at the SQLite website, <http://www.sqlite.org/>.</p>

<center>  
# # #  
</center>

<p><b>About SQLite</b></p>

<p>SQLite is a software library that implements a self-contained, embeddable, serverless, zero-configuration, transactional SQL database engine. The code for SQLite is in the public domain and is free for any use, commercial or private. SQLite is currently found in countless software titles and electronic devices.</p>

<p>SQLite was originally developed and released 2000 by Dr. D. Richard Hipp. The code continues to be maintained and enhanced by an international team of developers under Hipp's direction.</p>

<p>  
CONTACT INFORMATION:<br>  
SQLite Consortium<br>  
Dr. D. Richard Hipp<br>  
6200 Maple Cove Lane<br>  
Charlotte, NC 28269<br>  
Email: drh@sqlite.org<br>  
<http://www.sqlite.org/><br>  
Tel: +1.704.948.4565  
</p>

<p><b>About Mozilla</b></p>

<p>Mozilla is a global community dedicated to building free, open source products and technologies that improve the online experience for people everywhere. Mozilla works in the open with a highly disciplined, transparent and cooperative development process, under the umbrella of the non-profit Mozilla Foundation. As a wholly owned subsidiary, the Mozilla Corporation organizes the development and marketing of Mozilla products. This unique structure has enabled Mozilla to financially support and cultivate competitive, viable community innovation. For more information, visit [www.mozilla.com](http://www.mozilla.com).</p>

<p>CONTACT INFORMATION:<br>  
Mozilla Corporation<br>  
Jessica Waight<br>  
Tel: +1.415.345.4754<br>  
Email: [jwaight@outcastpr.com](mailto:jwaight@outcastpr.com)  
</p>

<p><b>About Symbian Limited</b></p>

<p>Symbian is a software licensing company that develops and licenses Symbian OS, the market-leading open operating system for advanced, data-enabled mobile phones known as smartphones.</p>

<p>Symbian licenses Symbian OS to the world's leading handset manufacturers and has built close co-operative business relationships with leading companies across the mobile industry. During Q3 2007, 20.4 million Symbian smartphones were sold worldwide to over 250 major network operators, bringing the total number of Symbian smartphones shipped up to 30 September 2007 to 165 million.</p>

<p>Symbian has its headquarters in London, United Kingdom, with offices in the United States, United Kingdom, Asia (India, P.R. China, and Korea) and Japan.

For more information, please visit [www.symbian.com](http://www.symbian.com).

CONTACT INFORMATION:

Symbian Global Press Office

Karen Hamblen

+44 207 154 1707

[press@symbian.com](mailto:press@symbian.com)

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[public domain](#) and so most

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application is free to use the same [database connection](#) or the

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SQLite is in the public domain. This document describes what that means

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SQLite Consortium Agreement

SQLite Consortium Agreement

This SQLite Consortium Agreement ("Agreement") is made and entered into as of the \_\_\_\_ day of \_\_\_\_\_, 2007 ("Effective Date") by and between \_\_\_\_\_ (the "Company"), and Hipp, Wyrick & Company, Inc., a Georgia Corporation with headquarters at 6200 Maple Cove Lane, Charlotte, NC ("Hwaci").

<p>WHEREAS, Hwaci is the developer of a serverless, embeddable, public domain SQL database engine available at <a href="http://www.sqlite.org/">http://www.sqlite.org/</a> ("SQLite"); and</p>

<p>WHEREAS, Company wishes to support the independent development of the SQLite database engine to insure the continuing reliability, vitality, and independence of SQLite, and in connection therewith, Company wishes to provide funds for ongoing research, development, and maintenance of the SQLite code base, operation of the SQLite website, protection and maintenance of the SQLite trademark, as well as for promotion of SQLite at conferences and trade shows; and</p>

<p>WHEREAS, Company wishes to receive benefits in the form of services from Hwaci in consideration for their support of SQLite; and</b>

<p>WHEREAS, Company and Hwaci each wish SQLite to be supported and maintained as an independent, community-driven project, and to ensure the SQLite development team remains independent.</p>

<p>NOW, THEREFORE, in consideration of the mutual promises contained herein, the parties agree as follows:</p>

## <h2>1.0 Definitions</h2>

### <h3>1.1 SQLite Developers</h3>

<p>The "SQLite Developers" are the employees or contractors of Hwaci engaged in the development of SQLite, including without limitation the SQLite Architect.</p>

### <h3>1.2 SQLite Architect</h3>

<p>The "SQLite Architect" is the SQLite Developer with ultimate responsibility and authority over changes and maintenance of the SQLite code. The current SQLite Architect is the original designer and developer of SQLite, D. Richard Hipp. Hwaci may change the SQLite Architect from time to time upon approval by Company.</p>

### <h3>1.3 Consortium Member</h3>

<p>A "Consortium Member" is a company or organization, including but not limited to Company, which has entered into an agreement with Hwaci which is substantially similar to this Agreement.</p></p>

## <h2>2.0 Agreement</h2>

### <h3>2.1 Responsibilities And Obligations Of SQLite Developers</h3>

#### <h4>2.1.1 General Support</h4>

<p>The SQLite Developers shall provide, without limit, timely and accurate answers, advice, and instruction in response to questions and comments from Company about SQLite submitted by email or by telephone at any time day or night.

</p>

#### <h4>2.1.2 Debugging Support</h4>

The SQLite Developers shall at Company's request provide Company with direct assistance in debugging applications that are built upon or use SQLite. The combined time for Debugging Support and Custom Development for Company is limited to 330 hours per year.

</p>

#### <h4>2.1.3 Custom Development</h4>

<p>The SQLite Developers shall at the request of Company write new extensions or enhancements to SQLite according to Company's specifications. These extensions and enhancements may be proprietary to Company or open source or with the consent of both Company and the SQLite Architect may be folded into the public domain SQLite source tree. The time devoted to Custom Development for Company is limited 220 hours per year.

</p>

#### <h4>2.1.4 Custom Builds</h4>

The SQLite Developers shall at Company's request provide Company with specialized builds of SQLite according to Company's specifications.

</p>

#### <h4>2.1.5 Legacy Support</h4>

<p>The SQLite Developers shall at Company's request provide support and bug-fix patches for any historical version of SQLite.

</p>

#### <h4>2.1.6 Custom Testing</h4>

<p>The SQLite Developers shall at Company's request set up and run acceptance tests according Company's specifications that are specifically designed to exercise SQLite as configured and used by Company. These acceptance tests shall be run and shall pass prior to any release of SQLite.

</p>



#### <h4>2.1.7 Priority Bug Fixes</h4>

<p>The SQLite Developers shall assign highest priority to fixing bugs in SQLite that are reported by Company or in which Company has expressed a specific interest.

</p>

#### <h4>2.1.8 Code Quality</h4>

<p>The SQLite Developers shall at all times keep the SQLite source code well commented and documented and clearly structured and organized so that an experienced and competent programmer can understand it and support it after no more than a few months of study.

</p>

#### <h4>2.1.9 Backwards Compatibility</h4>

<p>The SQLite Developers recognize that Company uses SQLite in mission-critical applications and therefore shall work diligently to ensure continuing bug-free correct operation and backwards compatibility with prior releases.

</p>

#### <h4>2.1.10

##### Test Coverage</h4>

<p>The SQLite Developers shall maintain the SQLite test suite such that no less than 95% source code coverage is provided.

</p>

#### <h4>2.1.11 Website</h4>

<p>The SQLite Developers shall maintain the SQLite website at <a href="http://www.sqlite.org">http://www.sqlite.org</a> in good working order and all SQLite source code shall be made freely available at such website.

</p>

### <h3>2.2 Responsibilities And Obligations Of The SQLite Architect</h3>

#### <h4>2.2.1 Private Briefings</h4>

<p>The SQLite Architect shall, at the request of Company, provide Company with private notification and briefings of any new bugs or new features in SQLite that might effect Company's products.

</p>

#### <h4>2.2.2 Direction</h4>

<p>The SQLite Architect shall coordinate the activities of SQLite Developers and shall publish from time to time a roadmap of proposed future changes and enhancements to SQLite.

</p>

#### <h4>2.2.3 Oversight</h4>

<p>The SQLite Architect shall personally review all changes to the SQLite Source Code and take responsibility for the quality and correctness of those changes.

</p>

#### <h4>2.2.4 Continuity</h4>

<p>The initial SQLite Architect shall be the original developer of SQLite, D. Richard Hipp. The role of SQLite Architect shall not be assigned to another during the term of this Agreement except due to the disability of Dr. Hipp and with approval of Company.

</p>

### <h3>2.3 Responsibilities And Obligations Of Hwaci</h3>

#### <h4>2.3.1 Employer</h4>

<p>Hwaci shall act as the employer of the SQLite Developers and SQLite Architect and shall make all tax and legal filings and tax withholding required by employers. Hwaci shall provide Company with W-9 information upon request.

</p>

#### <h4>2.3.2 Responsible Party</h4>

<p>All obligations of the SQLite Developers set forth in this agreement are deemed obligations of Hwaci. Hwaci shall recruit, employ, and supervise SQLite Developers in such a way that the responsibilities and obligations of the SQLite

Developers set

forth in this agreement are upheld.</p>

#### <h4>2.3.3 Multiple Developers</h4>

<p>Hwaci shall recruit and employ as many SQLite Developers for as many hours as can be reasonably achieved using the funds received from Consortium Members under this agreement.

So that support for SQLite will not be interrupted by the disability or withdrawal of any one SQLite Developer, Hwaci will keep at least two knowledgeable and competent SQLite Developers on staff.</p>

#### <h4>2.3.4 Mentorship</h4>

<p>Hwaci shall work to encourage independent programmers from around the world to become familiar with SQLite internals so that there will be a pool of talent able to support SQLite in the future.

</p>

#### <h4>2.3.5 Audits</h4>

<p>Hwaci shall keep and maintain complete and accurate records of the use of development funds provided by Company and shall allow Company, or its representative, a certified public accountant mutually acceptable to Hwaci and Company, during office hours and at reasonable intervals, no more than once every 12 months, to inspect and make extracts or copies of such records solely for the purpose of ascertaining Hwaci's compliance with the objectives and requirements of this agreement.</p>

#### <h4>2.3.6 Disaster Planning</h4>

<p>Hwaci shall maintain backup copies of all SQLite source files and documentation, current and historical, at at least two separate locations separated from each other and from the primary on-line SQLite repository by at least 400 kilometers.</p>

#### <h4>2.3.7 Trademark</h4>

<p>Hwaci shall maintain ownership of the SQLite trademark and the sqlite.org domain name and shall purchase bandwidth and server space for the <a href="http://www.sqlite.org/">http://www.sqlite.org/</a> website.</p>

#### <h4>2.3.8 No Take-overs or Buy-outs</h4>

<p>Neither Hwaci nor the SQLite Architect shall relinquish development control of SQLite during the term of this Agreement, by acquisition or merger or by any other means, except with the consent of Company.</p>

#### <h4>2.3.9

##### New Consortium Members</h5>

<p>New Consortium Members may be accepted into the consortium from time to time under identical terms as this agreement, or under substantially similar terms that have been approved by existing Consortium Members.</p>

#### <h4>2.3.10 Adequate Staff</h4>

Hwaci shall recruit and employ a sufficient number of qualified SQLite Developers to easily cover all custom development, debugging, and general support service obligations for all Consortium Members while still providing ample time for the SQLite Developers to engage in general maintenance and extension of SQLite.

</p>

#### <h4>2.3.11 Use Of Funds</h4>

<p>Hwaci shall use the funds provided hereunder solely for the development and maintenance of SQLite as set forth in this Agreement.

Interest on funds received in advance and held in trust will be reinvested and used for the same purposes as the principal.

</p>

### <h3>2.4 Responsibilities And Obligations Of Company</h3>

#### <h4>2.4.1 Funding</h4>

<p>Company shall provide funding for the ongoing support and maintenance of SQLite as set forth in section 3.0 "Fees".

</p>

#### <h4>2.4.2 Copyright Disclaimer</h4>

<p>Company acknowledges that SQLite source code and documentation published on the <a href="http://www.sqlite.org/">SQLite website</a> is in the public domain and that nothing in this agreement shall change that fact.

</p>

## <h2>3.0 Fees</h2>

<p>In consideration of the performance by Hwaci, the SQLite Developers, and the SQLite Architect of the obligations described herein, Company shall pay Hwaci at least US \$75,000 per year in advance either annually, quarterly, or monthly, at Company's discretion.</p>

## <h2>4.0 Confidentiality</h2>

### <h3>4.1 Definition of Confidential Information</h3>

<p>"Confidential Information" means any Company proprietary information, technical data, trade secrets or know-how, including, but not limited to, research, product plans, products, services, customers, customer lists, markets, software, developments, inventions, processes, formulas, technology, designs, drawings, engineering, hardware configuration information, marketing, finances or other business information disclosed by Company either directly or indirectly in writing, orally or by drawings or inspection of parts or equipment.</p>

### <h3>4.2 Non-Use and Non-Disclosure.</h3>

Hwaci shall not, during or subsequent to the term of this Agreement, use Company's Confidential Information for any purpose whatsoever other than the performance of the Services or disclose Company's Confidential Information to any third party. The parties acknowledge that Confidential Information will remain the sole property of Company. Hwaci shall take all reasonable precautions to prevent any unauthorized disclosure of Confidential Information including, but not limited to, having each employee or consultant of Hwaci, if any, with access to any Confidential Information, execute a nondisclosure agreement containing provisions in Company's favor substantially similar to this Agreement. Confidential Information does not include information that: (i) is known to Hwaci at the time of disclosure to Hwaci by Company as evidenced by written records of Hwaci; (ii) has become publicly known and made generally available through no wrongful act of Hwaci; or (iii) has been received by Hwaci from a third party who is authorized to make such disclosure.

#### 4.2.1 Disclosure Required by Law

In the event any Confidential Information is required to be disclosed by Hwaci under the terms of a valid and effective subpoena or order issued by a court of competent jurisdiction, or by a demand or information request from an executive or administrative agency or other governmental authority, Hwaci shall, unless prohibited by the terms of a subpoena, order, or demand, promptly notify Company of the existence, terms and circumstances surrounding such demand or request, shall consult with Company on the advisability of taking legally available steps to resist or narrow such demand or request, and, if disclosure of such Confidential Information is required, shall exercise its reasonable best efforts to narrow the scope of disclosure and obtain an order or other reliable assurance that confidential treatment will be accorded to such Confidential Information. To the extent that Hwaci is prohibited from notifying Company of a subpoena, order or demand, by the terms of same, Hwaci shall exercise its reasonable efforts to narrow the scope of disclosure.

### 4.3 Return of Materials.

Upon the termination of this Agreement, or upon Company's earlier request, Hwaci shall deliver to Company all of Company's property or Confidential Information that Hwaci may have in Hwaci's possession or control.

## <h2>5.0 Intellectual Property</h2>

### <h3>5.1 No Assignment</h3>

<p>Company acknowledges that all copyrightable material, notes, records, drawings, designs, inventions, improvements, developments,

discoveries and trade secrets made, generated, conceived, or reduced to practice by Hwaci related to SQLite will remain the property of Hwaci. Nothing in this Agreement will be construed to transfer any intellectual property right of Hwaci to Company.</p>

### <h3>5.2 Availability and Public Domain Dedication</h3>

<p>The SQLite Developers and Hwaci shall, subject to their discretion as to the quality and suitability of the SQLite source code and documentation for public release, make the SQLite source code and documentation publicly available as downloadable files and make a public statement ceding all intellectual property rights, including but not limited to copyright and patent rights, in the SQLite source code and documentation to the public domain.

To the extent that the SQLite Developers and Hwaci elect not to release the SQLite source code and documentation publicly, they shall provide copies thereof to Company and hereby grants to Company, under all of the SQLite

Developers' and Hwaci's rights including but not limited to copyright and patent rights, in and to the SQLite source code and documentation, perpetual, irrevocable, worldwide, non-exclusive, sublicenseable license to use, copy, prepare derivative works of, publicly perform and display the SQLite source code and documentation and derivative works thereof.</p>

### <h3>5.3 Trademark</h3>

<p>Hwaci shall use the name "SQLite" only to apply to the publicly available project known by such name as of the Effective Date. Hwaci may in its discretion file such trademark applications or registrations as it deems

appropriate to protect or record its rights therein,  
and may set such policies as it deems appropriate for  
licensing the use of the trademark.</p>

## <h2>6.0 Representations And Warranties</h2>

### <h3>6.1 Intellectual Property Clearances.</h3>

<p>Hwaci hereby represents and warrants that Hwaci shall  
enter into agreements with the SQLite Developers sufficient  
to enable Hwaci to  
undertake the obligations of Section 5.</p>

### <h3>6.2 Disclaimer.</h3>

<p>THE WORK PRODUCT AND ALL MATERIAL PROVIDED BY HWACI AND  
COMPANY ARE PROVIDED "AS IS." NEITHER PARTY MAKES ANY  
REPRESENTATIONS OR WARRANTIES OF ANY KIND, WHETHER ORAL  
OR WRITTEN, WHETHER EXPRESS, IMPLIED, OR ARISING BY STATUTE,  
CUSTOM, COURSE OF DEALING OR TRADE USAGE, WITH RESPECT TO  
THE SUBJECT MATTER HEREOF, IN CONNECTION WITH THIS AGREEMENT.  
EACH PARTY SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED  
WARRANTIES OR CONDITIONS OF TITLE, MERCHANTABILITY,  
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT.</p>

## <h2>7.0 Term And Termination</h2>

### <h3>7.1 Term.</h3>

<p>This Agreement will commence on the Effective Date and  
will continue until 12 months after the Effective Date.  
Thereafter, the parties may by mutual consent renew  
this Agreement subject to agreement on fees to be paid by  
Company for sponsorship for additional periods.</p>

### <h3>7.2 Termination.</h3>

<p>If either party materially defaults in  
the performance  
of any of its material obligations hereunder and if any  
such default is not corrected within 30 days after notice  
in writing, then the non-defaulting party, at its option,  
may, in addition to any other remedies it may have, thereupon  
terminate this Agreement by giving written notice of  
termination to the defaulting party.</p>

### <h3>7.3 Survival.</h3>

<p>Upon such termination all rights and duties of the parties toward each other will cease except: Sections 4 (Confidentiality), 5 (Intellectual Property), and 8 (Miscellaneous) will survive termination of this Agreement.</p>

## <h2>8. Miscellaneous</h2>

### <h3>8.1 Nonassignment/Binding Agreement.</h3>

<p>The parties acknowledge that the unique nature of Hwaci's services are substantial consideration for the parties' entering into this Agreement. Neither this Agreement nor any rights under this Agreement may be assigned or otherwise transferred by Hwaci, in whole or in part, whether voluntarily or by operation of law, without the prior written consent of Company, which consent will not be unreasonably withheld. Subject to the foregoing, this Agreement will be binding upon and will inure to the benefit of the parties and their respective successors and assigns. Any assignment in violation of the foregoing will be null and void.</p>

### <h3>8.2 Notices.</h3>

<p>Any notice required or permitted under the terms of this Agreement or required by law must be in writing and must be: (a) delivered in person; (b) sent by first class registered mail, or air mail, as appropriate; or (c) sent by overnight air courier, in each case properly posted and fully prepaid to the appropriate address set forth in the preamble to this Agreement. Either party may change its address for notice by notice to the other party given in accordance with this Section. Notices will be considered to have been given at the time of actual delivery in person, three business days after deposit in the mail as set forth above, or one day after delivery to an overnight air courier service.</p>

### <h3>8.3 Waiver.</h3>

<p>Any waiver of the provisions of this Agreement or of a party's rights or remedies under this Agreement must be in writing to be effective. Failure, neglect, or delay by a party to enforce the provisions of this Agreement or its rights or remedies at any time, will not be construed as a waiver of such party's rights



under this Agreement and will not in any way affect the validity of the whole or any part of this Agreement or prejudice such party's right to take subsequent action. No exercise or enforcement by either party of any right or remedy under this Agreement will preclude the enforcement by such party of any other right or remedy under this Agreement or that such party is entitled by law to enforce.</p>

### <h3>8.4 Severability.</h3>

<p>If any term, condition, or provision in this Agreement is found to be invalid, unlawful or unenforceable to any extent, the parties shall endeavor in good faith to agree to such amendments that will preserve, as far as possible, the intentions expressed in this Agreement. If the parties fail to agree on such an amendment, such invalid term, condition or provision will be severed from the remaining terms, conditions and provisions, which will continue to be valid and enforceable to the fullest extent permitted by law.</p>

### <h3>8.5 Integration.</h3>

<p>This Agreement contains the entire agreement of the parties with respect to the subject matter of this Agreement and supersedes all previous communications, representations, understandings and agreements, either oral or written, between the parties with respect to said subject matter. This Agreement may not be amended, except by a writing signed by both parties.</p>

### <h3>8.6 Counterparts.</h3>

<p>This Agreement may be executed in counterparts, each of which so executed will be deemed to be an original and such counterparts together will constitute one and the same agreement.</p>

### <h3>8.7 Governing Law.</h3>

<p>This Agreement will be interpreted and construed in accordance with the laws of the State of North Carolina and the United States of America, without regard to conflict of law principles. All disputes arising out of this Agreement will be subject to the exclusive



\* /opt/cola/permits/1146776895\_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/support.html

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

<a href="copyright.html">public domain</a>. No claim of ownership is made

Found in path(s):

\* /opt/cola/permits/1146776895\_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/faq.html

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

is free to use SQLite from multiple threads, but it must make sure

Found in path(s):

\* /opt/cola/permits/1146776895\_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/custombuild.html

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

<li> <a href='copyright.html'>Public domain source code</a>

<a href="copyright.html">public domain</a> and is thus free for

Found in path(s):

\* /opt/cola/permits/1146776895\_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/about.html

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

```
#!/usr/bin/tclsh.docsrc
```

```
#### Import of wapp.tcl
```

```
# Copyright (c) 2017 D. Richard Hipp
```

```
#
```

```
# This program is free software; you can redistribute it and/or
```

```
# modify it under the terms of the Simplified BSD License (also
```

```
# known as the "2-Clause License" or "FreeBSD License".)
```

```
#
```

```
# 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.
```

```
#
```

```
#-----
```

```
#
```

```
# Design rules:
```

```
#
```

```
# (1) All identifiers in the global namespace begin with "wapp"
```

```
#
```

```
# (2) Identifiers intended for internal use only begin with "wappInt"
```

```
#
```

```
# Add text to the end of the HTTP reply. No interpretation or transformation
```

```
# of the text is performed. The argument should be enclosed within {...}
```

```
#
```

```
proc wapp {txt} {
```

```
    global wapp
```

```

dict append wapp .reply $txt
}

# Add
text to the page under construction. Do no escaping on the text.
#
# Though "unsafe" in general, there are uses for this kind of thing.
# For example, if you want to return the complete, unmodified content of
# a file:
#
#   set fd [open content.html rb]
#   wapp-unsafe [read $fd]
#   close $fd
#
# You could do the same thing using ordinary "wapp" instead of "wapp-unsafe".
# The difference is that wapp-safety-check will complain about the misuse
# of "wapp", but it assumes that the person who write "wapp-unsafe" understands
# the risks.
#
# Though occasionally necessary, the use of this interface should be minimized.
#
proc wapp-unsafe {txt} {
    global wapp
    dict append wapp .reply $txt
}

# Add text to the end of the reply under construction. The following
# substitutions are made:
#
#   %html(...)      Escape text for inclusion in HTML
#   %url(...)       Escape text for use as a URL
#   %qp(...)        Escape text for use as a URI query parameter
#
#   %string(...)    Escape text for use within a JSON string
#   %unsafe(...)    No transformations of the text
#
# The substitutions above terminate at the first ")" character. If the
# text of the TCL string in ... contains ")" characters itself, use instead:
#
#   %html%(...)%
#   %url%(...)%
#   %qp%(...)%
#   %string%(...)%
#   %unsafe%(...)%
#
# In other words, use "%(...)%" instead of "(...)" to include the TCL string
# to substitute.
#

```

```

# The %unsafe substitution should be avoided whenever possible, obviously.
# In addition to the substitutions above, the text also does backslash
# escapes.
#
proc wapp-subst {txt} {
    global wapp
    regsub -all {% (html|url|qp|string|unsafe){1,1}?(|%)\((.+)\)\2} $txt \
        {[wappInt-enc-\1 "\3"]} txt
    dict append wapp .reply [uplevel 1 [list subst -novariables $txt]]
}

# Works like wapp-subst, but also removes whitespace from the beginning
# of lines.
#
proc wapp-trim {txt} {
    global wapp
    regsub -all {\n\s+} [string
    trim $txt] \n txt
    regsub -all {% (html|url|qp|string|unsafe){1,1}?(|%)\((.+)\)\2} $txt \
        {[wappInt-enc-\1 "\3"]} txt
    dict append wapp .reply [uplevel 1 [list subst -novariables $txt]]
}

# There must be a wappInt-enc-NAME routine for each possible substitution
# in wapp-subst. Thus there are routines for "html", "url", "qp", and "unsafe".
#
# wappInt-enc-html      Escape text so that it is safe to use in the
#                        body of an HTML document.
#
# wappInt-enc-url       Escape text so that it is safe to pass as an
#                        argument to href= and src= attributes in HTML.
#
# wappInt-enc-qp        Escape text so that it is safe to use as the
#                        value of a query parameter in a URL or in
#                        post data or in a cookie.
#
# wappInt-enc-string    Escape ", ', \, and < for using inside of a
#                        javascript string literal.
#                        The < character
#                        is escaped to prevent "</script>" from causing
#                        problems in embedded javascript.
#
# wappInt-enc-unsafe    Perform no encoding at all. Unsafe.
#
proc wappInt-enc-html {txt} {
    return [string map {& &lt; &gt; \&quot; \\ &#92;} $txt]
}
proc wappInt-enc-unsafe {txt} {

```

```

return $txt
}
proc wappInt-enc-url {s} {
if {[regsub -all {[^@~?=#_./a-zA-Z0-9]} $s {[wappInt-%HHchar {&}] s}} {
    set s [subst -novar -noback $s]
}
if {[regsub -all {{{}} $s {[wappInt-%HHchar \\&]} s}} {
    set s [subst -novar -noback $s]
}
return $s
}
proc wappInt-enc-qp {s} {
if {[regsub -all {[^_./a-zA-Z0-9]} $s {[wappInt-%HHchar {&}] s}} {
    set s [subst -novar -noback $s]
}
if {[regsub -all {{{}} $s {[wappInt-%HHchar \\&]} s}} {
    set s [subst -novar -noback $s]
}
return $s
}
proc wappInt-enc-string {s} {
return [string map {\ \ \ \ \ " \ \ \ \ ' \ \ \ < \u003c} $s]
}

```

# This is a

helper routine for wappInt-enc-url and wappInt-enc-qp. It returns

# an appropriate %HH encoding for the single character c. If c is a unicode

# character, then this routine might return multiple bytes: %HH%HH%HH

#

```

proc wappInt-%HHchar {c} {
if {$c==" "} {return +}
return [regsub -all .. [binary encode hex [encoding convertto utf-8 $c]] {%&}]
}

```

# Undo the www-url-encoded format.

#

# HT: This code stolen from nsgi.tcl

#

```

proc wappInt-decode-url {str} {
set str [string map [list + { } "\\" "\\\\" "\\\\" \\ \\[ \\ \\]] $str]
regsub -all -- \
    {%([Ee][A-Fa-f0-9])%([89ABab][A-Fa-f0-9])%([89ABab][A-Fa-f0-9])} \
    $str {[encoding convertfrom utf-8 [binary decode hex \1\2\3]]} str
regsub -all -- \
    {%([CDcd][A-Fa-f0-9])%([89ABab][A-Fa-f0-9])} \
    $str {[encoding convertfrom utf-8 [binary decode hex \1\2]]} str
regsub -all -- {%([0-7][A-Fa-f0-9])} $str {\u00\1} str

```

```

return [subst -novar $str]
}

# Reset the document back to an empty string.
#
proc
wapp-reset {} {
global wapp
dict set wapp .reply {}
}

# Change the mime-type of the result document.
#
proc wapp-mimetype {x} {
global wapp
dict set wapp .mimetype $x
}

# Change the reply code.
#
proc wapp-reply-code {x} {
global wapp
dict set wapp .reply-code $x
}

# Set a cookie
#
proc wapp-set-cookie {name value} {
global wapp
dict lappend wapp .new-cookies $name $value
}

# Unset a cookie
#
proc wapp-clear-cookie {name} {
wapp-set-cookie $name {}
}

# Add extra entries to the reply header
#
proc wapp-reply-extra {name value} {
global wapp
dict lappend wapp .reply-extra $name $value
}

# Specifies how the web-page under construction should be cached.
# The argument should be one of:
#

```

```

# no-cache
# max-age=N          (for some integer number of seconds, N)
# private,max-age=N
#
proc wapp-cache-control {x} {
    wapp-reply-extra Cache-Control $x
}

# Redirect to a different web page
#
proc wapp-redirect {uri} {
    wapp-reply-code {307 Redirect}
    wapp-reply-extra
    Location $uri
}

# Return the value of a wapp parameter
#
proc wapp-param {name {dflt {}}} {
    global wapp
    if {![dict exists $wapp $name]} {return $dflt}
    return [dict get $wapp $name]
}

# Return true if a and only if the wapp parameter $name exists
#
proc wapp-param-exists {name} {
    global wapp
    return [dict exists $wapp $name]
}

# Set the value of a wapp parameter
#
proc wapp-set-param {name value} {
    global wapp
    dict set wapp $name $value
}

# Return all parameter names that match the GLOB pattern, or all
# names if the GLOB pattern is omitted.
#
proc wapp-param-list {{glob {*}}} {
    global wapp
    return [dict keys $wapp $glob]
}

# By default, Wapp does not decode query parameters and POST parameters
# for cross-origin requests. This is a security restriction, designed to

```



```

# help prevent cross-site request forgery (CSRF) attacks.
#
# As a consequence of this restriction, URLs for sites generated by Wapp
# that contain query parameters will not work as URLs
# found in other
# websites. You cannot create a link from a second website into a Wapp
# website if the link contains query planner, by default.
#
# Of course, it is sometimes desirable to allow query parameters on external
# links. For URLs for which this is safe, the application should invoke
# wapp-allow-xorigin-params. This procedure tells Wapp that it is safe to
# go ahead and decode the query parameters even for cross-site requests.
#
# In other words, for Wapp security is the default setting. Individual pages
# need to actively disable the cross-site request security if those pages
# are safe for cross-site access.
#
proc wapp-allow-xorigin-params { } {
    global wapp
    if {![dict exists $wapp .qp] && ![dict get $wapp SAME_ORIGIN]} {
        wappInt-decode-query-params
    }
}

# Set the content-security-policy.
#
# The default content-security-policy is very strict: "default-src 'self'"
# The default policy prohibits the use of in-line javascript or CSS.
#
# Provide an alternative
# CSP as the argument. Or use "off" to disable
# the CSP completely.
#
proc wapp-content-security-policy {val} {
    global wapp
    if {$val=="off"} {
        dict unset wapp .csp
    } else {
        dict set wapp .csp $val
    }
}

# Examine the bodys of all procedures in this program looking for
# unsafe calls to various Wapp interfaces. Return a text string
# containing warnings. Return an empty string if all is ok.
#
# This routine is advisory only. It misses some constructs that are
# dangerous and flags others that are safe.

```

```

#
proc wapp-safety-check {} {
  set res {}
  foreach p [info procs] {
    set ln 0
    foreach x [split [info body $p] \n] {
      incr ln
      if {[regexp {^[ \t]*wapp[ \t]+([\n]+)} $x all tail]
        && [string index $tail 0]!="\173"
        && [regexp {[[ $]} $tail]
      } {
        append res "$p:$ln: unsafe \"wapp\" call: \"[string trim $x]\"\n"
      }
      if {[regexp {^[ \t]*wapp-(subst|trim)[ \t]+([\n]+)} $x all cx]} {
        append res "$p:$ln: unsafe \"wapp-$cx\"
      }
    }
  }
  return $res
}

# Return a string that describes the current environment. Applications
# might find this useful for debugging.
#
proc wapp-debug-env {} {
  global wapp
  set out {}
  foreach var [lsort [dict keys $wapp]] {
    if {[string index $var 0]=="."} continue
    append out "$var = [list [dict get $wapp $var]]\n"
  }
  append out "\[pwd\] = [list [pwd]]\n"
  return $out
}

# Tracing function for each HTTP request. This is overridden by wapp-start
# if tracing is enabled.
#
proc wappInt-trace {} {}

# Start up a listening socket. Arrange to invoke wappInt-new-connection
# for each inbound HTTP connection.
#
# port      Listen on this TCP port. 0 means to select a port
#           that is not currently in use
#
# wappmode  One of "scgi", "server", or "local".

```

```

#
proc wappInt-start-listener {port wappmode} {
  if {$wappmode=="scgi"} {
    set type SCGI
    set server [list wappInt-new-connection
wappInt-scgi-readable $wappmode]
  } else {
    set type HTTP
    set server [list wappInt-new-connection wappInt-http-readable $wappmode]
  }
  if {$wappmode=="local"} {
    set x [socket -server $server -myaddr 127.0.0.1 $port]
  } else {
    set x [socket -server $server $port]
  }
  set coninfo [chan configure $x -sockname]
  set port [lindex $coninfo 2]
  if {$wappmode=="local"} {
    wappInt-start-browser http://127.0.0.1:$port/
  } else {
    puts "Listening for $type requests on TCP port $port"
  }
}

# Start a web-browser and point it at $URL
#
proc wappInt-start-browser {url} {
  global tcl_platform
  if {$tcl_platform(platform)=="windows"} {
    exec cmd /c start $url &
  } elseif {$tcl_platform(os)=="Darwin"} {
    exec open $url &
  } elseif {[catch {exec xdg-open $url}]} {
    exec firefox $url &
  }
}

# This routine is a "socket -server" callback. The $chan, $ip, and $port
# arguments are added by the socket command.
#
# Arrange to invoke $callback when content is available
# on the new socket.
# The $callback will process inbound HTTP or SCGI content.
#
proc wappInt-new-connection {callback wappmode chan ip port} {
  upvar #0 wappInt-$chan W
  set W [dict create REMOTE_ADDR $ip REMOTE_PORT $port WAPP_MODE $wappmode \
.header {}]

```

```

fconfigure $chan -blocking 0 -translation binary
fileevent $chan readable [list $callback $chan]
}

# Close an input channel
#
proc wappInt-close-channel {chan} {
  if {$chan=="stdout"} {
    # This happens after completing a CGI request
    exit 0
  } else {
    unset ::wappInt-$chan
    close $chan
  }
}

# Process new text received on an inbound HTTP request
#
proc wappInt-http-readable {chan} {
  if {[catch [list wappInt-http-readable-unsafe $chan] msg]} {
    puts stderr "$msg\n$::errorInfo"
    wappInt-close-channel $chan
  }
}

proc wappInt-http-readable-unsafe {chan} {
  upvar #0 wappInt-$chan W wapp wapp
  if {![dict exists $W .toread]} {
    # If the .toread key is not set, that means we are still reading
    # the header
    set line [string trimright [gets $chan]]
    set n [string length $line]
    if {$n>0} {
      if {[dict get $W .header]=="" || [regexp {^\s+} $line]} {
        dict append W .header $line
      } else {
        dict append W .header \n$line
      }
    }
    if {[string length [dict get $W .header]]>100000} {
      error "HTTP request header too big - possible DOS attack"
    }
  } elseif {$n==0} {
    # We have reached the blank line that terminates the header.
    global argv0
    set a0 [file normalize $argv0]
    dict set W SCRIPT_FILENAME $a0
    dict set W DOCUMENT_ROOT [file dir $a0]
    if {[wappInt-parse-header $chan]} {
      catch {close $chan}
    }
  }
}

```

```

    return
  }
  set len 0
  if {[dict exists $W CONTENT_LENGTH]} {
    set len [dict get $W CONTENT_LENGTH]
  }
  if {$len>0} {
    # Still need to read the query content
    dict set W .toread $len
  } else {
    # There is no query content, so handle
the request immediately
    set wapp $W
    wappInt-handle-request $chan 0
  }
}
} else {
  # If .toread is set, that means we are reading the query content.
  # Continue reading until .toread reaches zero.
  set got [read $chan [dict get $W .toread]]
  dict append W CONTENT $got
  dict set W .toread [expr {[dict get $W .toread]-[string length $got]}]
  if {[dict get $W .toread]<=0} {
    # Handle the request as soon as all the query content is received
    set wapp $W
    wappInt-handle-request $chan 0
  }
}
}

# Decode the HTTP request header.
#
# This routine is always running inside of a [catch], so if
# any problems arise, simply raise an error.
#
proc wappInt-parse-header {chan} {
  upvar #0 wappInt-$chan W
  set hdr [split [dict get $W .header] \n]
  if {$hdr==""} {return 1}
  set req [lindex $hdr 0]
  dict set W REQUEST_METHOD [set method [lindex $req 0]]
  if {[lsearch {GET HEAD POST} $method]<0} {
    error "unsupported request method:
\"[dict get $W REQUEST_METHOD]\""
  }
  set uri [lindex $req 1]
  set split_uri [split $uri ?]
  set uri0 [lindex $split_uri 0]

```

```

if {[regexp {^[-.a-z0-9_]*$} $uri0]} {
    error "invalid request uri: \"$uri0\""
}
dict set W REQUEST_URI $uri0
dict set W PATH_INFO $uri0
set uri1 [lindex $split_uri 1]
dict set W QUERY_STRING $uri1
set n [llength $hdr]
for {set i 1} {$i<$n} {incr i} {
    set x [lindex $hdr $i]
    if {[regexp {^(.+):+(.*)$} $x all name value]} {
        error "invalid header line: \"$x\""
    }
    set name [string toupper $name]
    switch -- $name {
        REFERER {set name HTTP_REFERER}
        USER-AGENT {set name HTTP_USER_AGENT}
        CONTENT-LENGTH {set name CONTENT_LENGTH}
        CONTENT-TYPE {set name CONTENT_TYPE}
        HOST {set name HTTP_HOST}
        COOKIE {set name HTTP_COOKIE}
        ACCEPT-ENCODING {set name HTTP_ACCEPT_ENCODING}
        default {set name .hdr:$name}
    }
    dict set W $name $value
}
return 0
}

# Decode the QUERY_STRING
parameters from a GET request or the
# application/x-www-form-urlencoded CONTENT from a POST request.
#
# This routine sets the ".qp" element of the ::wapp dict as a signal
# that query parameters have already been decoded.
#
proc wappInt-decode-query-params {} {
    global wapp
    dict set wapp .qp 1
    if {[dict exists $wapp QUERY_STRING]} {
        foreach qterm [split [dict get $wapp QUERY_STRING] &] {
            set qsplit [split $qterm =]
            set nm [lindex $qsplit 0]
            if {[regexp {^[a-z][a-z0-9]*$} $nm]} {
                dict set wapp $nm [wappInt-decode-url [lindex $qsplit 1]]
            }
        }
    }
}

```

```

if {[dict exists $wapp CONTENT_TYPE] && [dict exists $wapp CONTENT]} {
  set ctype [dict get $wapp CONTENT_TYPE]
  if {$ctype=="application/x-www-form-urlencoded"} {
    foreach qterm [split [string trim [dict get $wapp CONTENT]] &] {
      set qsplitted [split $qterm =]
      set nm [lindex $qsplitted 0]
      if {[regexp {[a-z][-a-z0-9_]*} $nm]} {
        dict set wapp $nm [wappInt-decode-url
[lindex $qsplitted 1]]
      }
    }
  }
  } elseif {[string match multipart/form-data* $ctype]} {
    regexp {^(.*?)\r\n(.*?)$} [dict get $wapp CONTENT] all divider body
    set ndiv [string length $divider]
    while {[string length $body]} {
      set idx [string first $divider $body]
      set unit [string range $body 0 [expr {$idx-3}]]
      set body [string range $body [expr {$idx+$ndiv+2}] end]
      if {[regexp {^Content-Disposition: form-data; (.*?)\r\n\r\n(.*?)$} \
        $unit unit hdr content] &&
        [regexp {name="(.*?)"; filename="(.*?)"\r\nContent-Type: (.*?)$} \
        $hdr hr name filename mimetype]} {
        dict set wapp $name.filename \
          [string map [list \\' \' \'\' \\'\' \\'\'\' \\'\'\'\' \\'\'\'\'\' \\'\'\'\'\'\'] $filename]
        dict set wapp $name.mimetype $mimetype
        dict set wapp $name.content $content
      }
    }
  }
}

# Invoke application-supplied methods to generate a reply to
# a single HTTP request.
#
# This routine always
# runs within [catch], so handle exceptions by
# invoking [error].
#
proc wappInt-handle-request {chan useCgi} {
  global wapp
  dict set wapp .reply {}
  dict set wapp .mimetype {text/html; charset=utf-8}
  dict set wapp .reply-code {200 Ok}
  dict set wapp .csp {default-src 'self'}

  # Set up additional CGI environment values
  #

```

```

if {[dict exists $wapp HTTP_HOST]} {
    dict set wapp BASE_URL {}
} elseif {[dict exists $wapp HTTPS]} {
    dict set wapp BASE_URL https://[dict get $wapp HTTP_HOST]
} else {
    dict set wapp BASE_URL http://[dict get $wapp HTTP_HOST]
}
if {[dict exists $wapp REQUEST_URI]} {
    dict set wapp REQUEST_URI /
} elseif {[regsub {\?.*} [dict get $wapp REQUEST_URI] {} newR]} {
    # Some servers (ex: nginx) append the query parameters to REQUEST_URI.
    # These need to be stripped off
    dict set wapp REQUEST_URI $newR
}
if {[dict exists $wapp SCRIPT_NAME]} {
    dict append wapp BASE_URL [dict get $wapp SCRIPT_NAME]
} else {
    dict set wapp
SCRIPT_NAME {}
}
if {[dict exists $wapp PATH_INFO]} {
    # If PATH_INFO is missing (ex: nginx) the construct it
    set URI [dict get $wapp REQUEST_URI]
    set skip [string length [dict get $wapp SCRIPT_NAME]]
    dict set wapp PATH_INFO [string range $URI $skip end]
}
if {[regexp {^(/[^\s]+)(.*)$} [dict get $wapp PATH_INFO] all head tail]} {
    dict set wapp PATH_HEAD $head
    dict set wapp PATH_TAIL [string trimleft $tail /]
} else {
    dict set wapp PATH_INFO {}
    dict set wapp PATH_HEAD {}
    dict set wapp PATH_TAIL {}
}
dict set wapp SELF_URL [dict get $wapp BASE_URL]/[dict get $wapp PATH_HEAD]

# Parse query parameters from the query string, the cookies, and
# POST data
#
if {[dict exists $wapp HTTP_COOKIE]} {
    foreach qterm [split [dict get $wapp HTTP_COOKIE] {;} ] {
        set qspl [split [string trim $qterm] =]
        set nm [lindex $qspl 0]
        if {[regexp {^[a-z][-a-z0-9_]*$} $nm]} {
            dict set wapp $nm [wappInt-decode-url [lindex
$qspl 1]]
        }
    }
}

```



```

}
set same_origin 0
if {[dict exists $wapp HTTP_REFERER]} {
    set referer [dict get $wapp HTTP_REFERER]
    set base [dict get $wapp BASE_URL]
    if {$referer==$base || [string match $base/* $referer]} {
        set same_origin 1
    }
}
dict set wapp SAME_ORIGIN $same_origin
if {$same_origin} {
    wappInt-decode-query-params
}

# Invoke the application-defined handler procedure for this page
# request. If an error occurs while running that procedure, generate
# an HTTP reply that contains the error message.
#
wapp-before-dispatch-hook
wappInt-trace
set mname [dict get $wapp PATH_HEAD]
if {[catch {
    if {$mname!=""} && [length [info proc wapp-page-$mname]]>0} {
        wapp-page-$mname
    } else {
        wapp-default
    }
} msg]} {
    if {[wapp-param WAPP_MODE]=="local" || [wapp-param WAPP_MODE]=="server"} {
        puts "ERROR: $::errorInfo"
    }
    wapp-reset
    wapp-reply-code "500 Internal Server Error"
    wapp-mimetype
    text/html
    wapp-trim {
        <h1>Wapp Application Error</h1>
        <pre>%html($::errorInfo)</pre>
    }
    dict unset wapp .new-cookies
}

# Transmit the HTTP reply
#
if {$chan=="stdout"} {
    puts $chan "Status: [dict get $wapp .reply-code]\r"
} else {
    puts $chan "HTTP/1.1 [dict get $wapp .reply-code]\r"
}

```

```

puts $chan "Server: wapp\r"
puts $chan "Connection: close\r"
}
if {[dict exists $wapp .reply-extra]} {
  foreach {name value} [dict get $wapp .reply-extra] {
    puts $chan "$name: $value\r"
  }
}
if {[dict exists $wapp .csp]} {
  puts $chan "Content-Security-Policy: [dict get $wapp .csp]\r"
}
set mimetype [dict get $wapp .mimetype]
puts $chan "Content-Type: $mimetype\r"
if {[dict exists $wapp .new-cookies]} {
  foreach {nm val} [dict get $wapp .new-cookies] {
    if {[regexp {[a-z][-a-z0-9_]*$} $nm]} {
      if {$val==""} {
        puts $chan "Set-Cookie: $nm=; HttpOnly; Path=/; Max-Age=1\r"
      } else {
        set
      }
    }
  }
}
val [wappInt-enc-url $val]
  puts $chan "Set-Cookie: $nm=$val; HttpOnly; Path=^\r"
}
}
}
}
if {[string match text/* $mimetype]} {
  set reply [encoding convertto utf-8 [dict get $wapp .reply]]
  if {[regexp {\ygzip\y} [wapp-param HTTP_ACCEPT_ENCODING]]} {
    catch {
      set x [zlib gzip $reply]
      set reply $x
      puts $chan "Content-Encoding: gzip\r"
    }
  }
} else {
  set reply [dict get $wapp .reply]
}
puts $chan "Content-Length: [string length $reply]\r"
puts $chan \r
puts $chan $reply
flush $chan
wappInt-close-channel $chan
}

```

```

# This routine runs just prior to request-handler dispatch. The
# default implementation is a no-op, but applications can override
# to do additional transformations or checks.

```

```

#
proc wapp-before-dispatch-hook {} {return}

# Process a single CGI request
#
proc wappInt-handle-cgi-request {} {
    global wapp env
    foreach key {
        CONTENT_LENGTH
        CONTENT_TYPE
        DOCUMENT_ROOT
        HTTP_ACCEPT_ENCODING
        HTTP_COOKIE
        HTTP_HOST
        HTTP_REFERER
        HTTP_USER_AGENT
        HTTPS
        PATH_INFO
        QUERY_STRING
        REMOTE_ADDR
        REQUEST_METHOD
        REQUEST_URI
        REMOTE_USER
        SCRIPT_FILENAME
        SCRIPT_NAME
        SERVER_NAME
        SERVER_PORT
        SERVER_PROTOCOL
    } {
        if {[info exists env($key)]} {
            dict set wapp $key $env($key)
        }
    }
    set len 0
    if {[dict exists $wapp CONTENT_LENGTH]} {
        set len [dict get $wapp CONTENT_LENGTH]
    }
    if {$len>0} {
        fconfigure stdin -translation binary
        dict set wapp CONTENT [read stdin $len]
    }
    dict set wapp WAPP_MODE cgi
    fconfigure stdout -translation binary
    wappInt-handle-request stdout 1
}

# Process new text received on an inbound SCGI request
#

```

```

proc wappInt-scgi-readable {chan} {
  if {[catch [list wappInt-scgi-readable-unsafe $chan] msg]} {
    puts stderr "$msg\n$::errorInfo"
    wappInt-close-channel $chan
  }
}
proc wappInt-scgi-readable-unsafe {chan} {
  upvar #0 wappInt-$chan W wapp wapp
  if
  {![dict exists $W .toread]} {
    # If the .toread key is not set, that means we are still reading
    # the header.
    #
    # An SGI header is short. This implementation assumes the entire
    # header is available all at once.
    #
    set req [read $chan 15]
    set n [string length $req]
    scan $req %d:%s len hdr
    incr len [string length "$len:,"]
    append hdr [read $chan [expr {$len-15}]]
    foreach {nm val} [split $hdr \000] {
      if {$nm==","} break
      dict set W $nm $val
    }
    set len 0
    if {[dict exists $W CONTENT_LENGTH]} {
      set len [dict get $W CONTENT_LENGTH]
    }
    if {$len>0} {
      # Still need to read the query content
      dict set W .toread $len
    } else {
      # There is no query content, so handle the request immediately
      set wapp $W
      wappInt-handle-request $chan 0
    }
  } else {
    # If .toread is set, that means we are reading the query content.
    # Continue reading until .toread reaches zero.
    set got [read
$chan [dict get $W .toread]]
    dict append W CONTENT $got
    dict set W .toread [expr {[dict get $W .toread]-[string length $got]}]
    if {[dict get $W .toread]<=0} {
      # Handle the request as soon as all the query content is received
      set wapp $W
      wappInt-handle-request $chan 0
    }
  }
}

```

```

}
}
}

# Start up the wapp framework. Parameters are a list passed as the
# single argument.
#
# -server $PORT      Listen for HTTP requests on this TCP port $PORT
#
# -local $PORT      Listen for HTTP requests on 127.0.0.1:$PORT
#
# -scgi $PORT       Listen for SCGI requests on TCP port $PORT
#
# -cgi              Handle a single CGI request
#
# With no arguments, the behavior is called "auto". In "auto" mode,
# if the GATEWAY_INTERFACE environment variable indicates CGI, then run
# as CGI. Otherwise, start an HTTP server bound to the loopback address
# only, on an arbitrary TCP port, and automatically launch a web browser
# on that TCP port.
#
# Additional
# options:
#
# -trace            "puts" each request URL as it is handled, for
#                  debugging
#
# -lint             Run wapp-safety-check on the application instead
#                  of running the application itself
#
# -Dvar=value       Set TCL global variable "var" to "value"
#
#
proc wapp-start {arglist} {
    global env
    set mode auto
    set port 0
    set n [llength $arglist]
    for {set i 0} {$i<$n} {incr i} {
        set term [lindex $arglist $i]
        if {[string match --* $term]} {set term [string range $term 1 end]}
        switch -glob -- $term {
            -server {
                incr i;
                set mode "server"
                set port [lindex $arglist $i]
            }
            -local {

```

```

incr i;
set mode "local"
set port [lindex $arglist $i]
}
-scgi {
incr i;
set mode "scgi"
set port [lindex $arglist $i]
}
-cgi {
set mode "cgi"
}
-trace {
proc wappInt-trace {} {

set q [wapp-param QUERY_STRING]
set uri [wapp-param BASE_URL][wapp-param PATH_INFO]
if {$q!=""} {append uri ?$q}
puts $uri
}
}
-lint {
set res [wapp-safety-check]
if {$res!=""} {
puts "Potential problems in this code:"
puts $res
exit 1
} else {
exit
}
}
-D*=* {
if {[regexp {^\.D([^\=]+)=\.*)$} $term all var val]} {
set ::$var $val
}
}
default {
error "unknown option: $term"
}
}
if {($mode=="auto"
&& [info exists env(GATEWAY_INTERFACE)]
&& [string match CGI/1.* $env(GATEWAY_INTERFACE)])
|| $mode=="cgi"
} {
wappInt-handle-cgi-request
return

```

```

}
if {$mode=="scgi"} {
    wappInt-start-listener $port scgi
} elseif {$mode=="server"} {
    wappInt-start-listener $port server
} else {
    wappInt-start-listener $port local
}
}
vwait ::forever
}

# Call this version
1.0
package provide wapp 1.0

#### End of wapp.tcl

# Generate all header content for the output document
#
proc search_header { } {
    wapp-trim {
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
<html><head>
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
<link href="sqlite.css" rel="stylesheet">
<title>Search SQLite Documentation</title>
<!-- path= -->
</head>
<body>
<div class=nosearch>
<a href="index.html">

</a>
<div><!-- IE hack to prevent disappearing logo --></div>
<div class="tagline desktoponly">
Small. Fast. Reliable.<br>Choose any three.
</div>
<div class="menu mainmenu">
<ul>
<li><a href="index.html">Home</a>
<li class='mobileonly'><a href="javascript:void(0)" onclick='toggle_div("submenu")'>Menu</a>
<li class='wideonly'><a href='about.html'>About</a>
<li class='desktoponly'><a
href="docs.html">Documentation</a>
<li class='desktoponly'><a href="download.html">Download</a>
<li class='wideonly'><a href='copyright.html'>License</a>
<li class='desktoponly'><a href="support.html">Support</a>

```

```

<li class='desktoponly'><a href="prosupport.html">Purchase</a>
<li class='search' id='search_menubutton'>
<a href="javascript:void(0)" onclick='toggle_search()'>Search</a>
</ul>
</div>
<div class="menu submenu" id="submenu">
<ul>
<li><a href='about.html'>About</a>
<li><a href='docs.html'>Documentation</a>
<li><a href='download.html'>Download</a>
<li><a href='support.html'>Support</a>
<li><a href='prosupport.html'>Purchase</a>
</ul>
</div>
<div class="searchmenu" id="searchmenu">
<form method="GET" action="search">
<select name="s" id="searchtype">
<option value="d">Search Documentation</option>
<option value="c">Search Changelog</option>
</select>
<input type="text" name="q" id="searchbox" value="">
<input type="submit" value="Go">
</form>
</div>
</div>
<script>
function
toggle_div(nm) {
var w = document.getElementById(nm);
if( w.style.display=="block" ){
w.style.display = "none";
}else{
w.style.display = "block";
}
}
function toggle_search() {
var w = document.getElementById("searchmenu");
if( w.style.display=="block" ){
w.style.display = "none";
} else {
w.style.display = "block";
setTimeout(function(){
document.getElementById("searchbox").focus()
}, 30);
}
}
function div_off(nm){ document.getElementById(nm).style.display="none";}
window.onbeforeunload = function(e){ div_off("submenu");}

```



```

/* Disable the Search feature if we are not operating from CGI, since */
/* Search is accomplished using CGI and will not work without it. */
if( !location.origin.match || !location.origin.match(/http/) ){
document.getElementById("search_menubutton").style.display = "none";
}
/* Used by the Hide/Show button beside syntax diagrams, to toggle the */
function hideorshow(btn,obj){
var x = document.getElementById(obj);
var b = document.getElementById(btn);
if( x.style.display!='none'
){
x.style.display = 'none';
b.innerHTML='show';
}else{
x.style.display = '';
b.innerHTML='hide';
}
return false;
}
</script>
</div>
}
}

#-----
# Add an entry to the log database for the current query. Which
# returns $nRes results.
#
proc search_add_log_entry {nRes} {
if {[wapp-param-exists donotlog]} return
sqlite3 db2 [file dir [wapp-param SCRIPT_FILENAME]]/search.d/searchlog.db
db2 timeout 10000
set ip [wapp-param REMOTE_ADDR]
set query [wapp-param q]
db2 eval {
PRAGMA synchronous=OFF;
PRAGMA journal_mode=OFF;
BEGIN;
CREATE TABLE IF NOT EXISTS log(
ip,          -- IP query was made from
query,      -- Fts5 query string
nres,       -- Number of results
timestamp DEFAULT CURRENT_TIMESTAMP
);
INSERT INTO log(ip, query, nres) VALUES($ip, $query, $nRes);
COMMIT;
}
db2 close

```

```

}

#-----
#
This command is similar to the builtin Tcl [time] command, except that
# it only ever runs the supplied script once. Also, instead of returning
# a string like "xxx microseconds per iteration", it returns "x.yy ms" or
# "x.yy s", depending on the magnitude of the time spent running the
# command. For example:
#
# % ttime {after 1500}
# 1.50 s
# % ttime {after 45}
# 45.02 ms
#
proc ttime {script} {
    set t [lindex [time [list uplevel $script]] 0]
    if {$t>1000000} { return [format "%.2f s" [expr {$t/1000000.0}]] }
    return [format "%.2f ms" [expr {$t/1000.0}]]
}

#-----
# Do a search of the change log
#
proc searchchanges {} {
    set q [wapp-param q]
    if {$q==""} {return {}}
    set open {<span style="background-color:#d9f2e6">}
    set close {</span>}
    set query {
        SELECT url, version, idx, highlight(change, 3, $open, $close) AS text
        FROM change($q)
        ORDER BY rowid ASC
    }
    wapp-trim {
        <p>Change log entries mentioning: <b>%html($q)</b>
        <table border=0>
    }
    set s2 "style=\"margin-top:0\""
    set s1 "style=\"font-size:larger; text-align:left\" class=nounderline"
    set prev ""
    db eval $query {
        if {$prev!=$version} {
            wapp-trim {
                <tr><td %unsafe($s1) valign=top> <a href='%url($url)'%>%html($version)</a>
                <td><ul %unsafe($s2)>
            }
            set prev $version
        }
    }
}

```

```

}
wapp-subst {<li value=%html($idx)> (%html($idx)) %unsafe($text)\n}
}
wapp-trim {
</table>
<center><p>You can also see the <a href=changes.html>entire
changelog as a single page</a> if you wish.</center>
}
}

```

```

#-----
# Do a search over all documentation other than the change log
#

```

```

proc searchresults { } {
set q [wapp-param q]
if {$q==""} {return ""}

```

```

# Count the "" characters in $::A(q). If there is an odd number of
# occurrences, add a " to the
end of the query so that fts5 can parse
# it without error.
if {[regexp -all \x22 $q] % 2} { append q \x22 }

```

```

# Set iStart to the index of the first result to display. Results are
# indexed starting at zero from most to least relevant.
#
set iStart 0
catch {set iStart [expr {[wapp-param i 0]*10}]}

```

```

# Grab a list of rowid results.
#

```

```

set sql {
SELECT rowid FROM page WHERE page MATCH $q
ORDER BY srnk(page) DESC,
rank * COALESCE(
(SELECT percent FROM weight WHERE id=page.rowid), 100
);
}

```

```

if {[catch { set IRowid [db eval $sql] }] } {
set x ""
foreach word [split $q " "] {
append x "[string map [list "\'" "\'"'"'] $word]\'"
}
set q [string trim $x]
set IRowid [db eval $sql]
}

```

```

set IRes [list]

```

```

foreach rowid $IRowid {
  if {$rowid > 1000} {
    set parent [expr $rowid / 1000]
    lappend subsections($parent) $rowid
  } else {
    lappend IRes $rowid
  }
}

set nRes [llength $IRes]
set IRes [lrange
$IRes $iStart [expr $iStart+9]]

# Add an entry to the log database.
#
search_add_log_entry $nRes

# If there are no results, return a message to that effect.
#
if {[llength $IRes] == 0} {
  wapp-subst {<p>No Results for: <b>%html($q)</b>\n}
}

# HTML markup used to highlight keywords within FTS5 generated snippets.
#
set open {<span style="background-color:#d9f2e6">}
set close {</span>}
set ellipsis {<b>&nbsp;&nbsp;&nbsp;...&nbsp;&nbsp;&nbsp;</b>}

# Grab the required data
#
db eval [string map [list %LIST% [join $IRowid ,]] {
  SELECT
    rowid AS parentid,
    snippet(page, 0, $open, $close, $ellipsis, 6) AS s_apis,
    snippet(page, 2, $open, $close, ", 40) AS s_title1,
    snippet(page, 3, $open, $close, $ellipsis, 40) AS s_title2,
    snippet(page, 4, $open, $close, $ellipsis, 40) AS s_content,
    url, rank
  FROM page($q)
  WHERE rowid IN (%LIST%)
}] X {
  foreach k [array names X] { set data($X(parentid),$k) [set X($k)] }
}

set
i1 [expr {$iStart+1}]
set i2 [expr {($nRes < $iStart+10) ? $nRes : $iStart+10}]

```

```
wapp-trim {
  <table border=0>
  <p>Search results %html($i1)..%html($i2) of %html($nRes) for: <b>%html($q)</b>
}
```

```
foreach rowid $IRes {
```

```
  foreach a {parentid s_apis s_title1 s_content url rank} {
    set $a $data($rowid,$a)
  }
```

```
  if {[info exists subsections($parentid)]} {
    set childid [lindex $subsections($parentid) 0]
    set link $data($childid,url)
    set hdr $data($childid,s_title2)
```

```
    if {$hdr==""} {
      set s_content ""
    } else {
      set s_content [subst {
        <b><a style=color:#044a64 href=$link>$hdr</a></b>
      }]
    }
  }
```

```
  append s_content " $data($childid,s_content)"
}
```

```
wapp-trim {<tr>
  <td valign=top style="line-height:150%">
  <div style="white-space:wrap;font-size:larger" class=nounderline>
  <a href="%url($url)">%unsafe($s_title1)</a>
  <div style="float:right;font-size:smaller;color:#BBB">(%url($url))</div>
  </div>
  <div style="margin-left: 10ex; font:larger monospace">%unsafe($s_apis)</div>
  <div style="margin-left: 4ex; margin-bottom:1.5em">
    %unsafe($s_content)
  </div>
  </td>
}
```

```
}
wapp-subst {</table>\n}
```

```
# If the query returned more than 10 results, add up to 10 links to
# each set of 10 results (first link to results 1-10, second to 11-20,
# third to 21-30, as required).
```

```
#
if {$nRes>10} {
```

```

set s(0) {border:solid #044a64 1px;padding:1ex;margin:1ex;line-height:300%;}
set s(1) "$s(0);background:#044a64;color:white"
wapp-subst {<center><p>\n}
for {set i 0} {$i < 10 && ($i*10)<$nRes} {incr i} {
  set style $s([expr {(($iStart/10)==$i)])
  wapp-trim {
    <a style="%html($style)"
      href="search?q=%qp($q)&i=%qp($i)">%html([expr $i+1])</a>
  }
}
wapp-subst {</center>\n}
}
}

# This is the main entry point into the search result page generator
#
proc wapp-default
{} {
wapp-content-security-policy {default-src 'self' 'unsafe-inline'}
wapp-allow-xorigin-params
if {[wapp-param-exists env]} {
  search_header
  wapp-trim {
    <h1>Environment Dump For Debugging</h1>
    <pre>%html([wapp-debug-env])</pre>
  }
  return
}

# When running using the built-in webserver in Wapp (in other words,
# when not running as CGI) any filename that contains a "." loads
# directly from the filesystem.
if {[wapp-param WAPP_MODE]!="cgi"
&& [string match *.* [wapp-param PATH_INFO]]
} {
  set altfile [file dir [wapp-param SCRIPT_FILENAME]][wapp-param PATH_INFO]
  set fd [open $altfile rb]
  fconfigure $fd -translation binary
  wapp-unsafe [read $fd]
  close $fd
  switch -glob -- $altfile {
    *.html {
      wapp-mimetype text/html
    }
    *.css {
      wapp-mimetype text/css
    }
    *.gif {

```

```

    wapp-mimetype image/gif
  }
}
return
}

search_header
sqlite3 db [file dir [wapp-param SCRIPT_FILENAME]]/search.d/search.db
set searchType [wapp-param s d]
if {$searchType=="c"} {
  set cmd searchchanges
} else {
  set cmd searchresults
}
db transaction {
  set t [time {$cmd}]
}
wapp-trim {
  <center>
  <p>Page generated by <a href='fts5.html'>FTS5</a> in about %html($t).
  </center>
  <script>
  window.addEventListener('load', function() {
    var w = document.getElementById("searchmenu");
    w.style.display = "block";
    w = document.getElementById("searchtype");
    w.value = "%string($searchType)"
    setTimeout(function(){
      var s = document.getElementById("searchbox");
      s.value = "%string([wapp-param q])"
      s.focus();
      s.select();
    }, 30);
  });
  </script>
}
}
wapp-start $argv

```

Found in path(s):

\* /opt/cola/permits/1146776895\_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/search

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

without a shared lock, other processes are free to modify the database

Found in path(s):

\* /opt/cola/permits/1146776895\_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/atomiccommit.html

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

Suppose the demo\_data.boundary field holds some proprietary data description

Found in path(s):

\* /opt/cola/permits/1146776895\_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/rtree.html

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

SQLite is open source, and is available in the public domain

Found in path(s):

\* /opt/cola/permits/1146776895\_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/books.html

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

If N>0 then the connection is free to use more of the WAL file beyond

Found in path(s):

\* /opt/cola/permits/1146776895\_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/walformat.html

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

public domain.</li>

Found in path(s):

\* /opt/cola/permits/1146776895\_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/changes.html

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

other proprietary or non-standard VFSes.

Found in path(s):

\* /opt/cola/permits/1146776895\_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/uri.html

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

```
#!/usr/bin/tclsh.docsrc
```

```
#### Import of wapp.tcl
```

```
# Copyright (c) 2017 D. Richard Hipp
```

```
#
```

```
# This program is free software; you can redistribute it and/or  
# modify it under the terms of the Simplified BSD License (also  
# known as the "2-Clause License" or "FreeBSD License".)
```

```
#
```

```
# 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.
```

```
#
```

```
#-----
```

```
#
```

```
# Design rules:
```

```
#
```



```

# (1) All identifiers in the global namespace begin with "wapp"
#
# (2) Identifiers intended for internal use only begin with "wappInt"
#

# Add text to the end of the HTTP reply. No interpretation or transformation
# of the text is performed. The argument should be enclosed within {...}
#
proc wapp {txt} {
    global wapp
    dict append wapp .reply $txt
}

# Add
text to the page under construction. Do no escaping on the text.
#
# Though "unsafe" in general, there are uses for this kind of thing.
# For example, if you want to return the complete, unmodified content of
# a file:
#
#     set fd [open content.html rb]
#     wapp-unsafe [read $fd]
#     close $fd
#
# You could do the same thing using ordinary "wapp" instead of "wapp-unsafe".
# The difference is that wapp-safety-check will complain about the misuse
# of "wapp", but it assumes that the person who writes "wapp-unsafe" understands
# the risks.
#
# Though occasionally necessary, the use of this interface should be minimized.
#
proc wapp-unsafe {txt} {
    global wapp
    dict append wapp .reply $txt
}

# Add text to the end of the reply under construction. The following
# substitutions are made:
#
# %html(...)    Escape text for inclusion in HTML
# %url(...)     Escape text for use as a URL
# %qp(...)      Escape text for use as a URI query parameter
#
# %string(...)  Escape text for use within a JSON string
# %unsafe(...)  No transformations of the text
#
# The substitutions above terminate at the first ")" character. If the
# text of the TCL string in ... contains ")" characters itself, use instead:

```

```

#
# %html%(...)%
# %url%(...)%
# %qp%(...)%
# %string%(...)%
# %unsafe%(...)%
#
# In other words, use "%(...)" instead of "(...)" to include the TCL string
# to substitute.
#
# The %unsafe substitution should be avoided whenever possible, obviously.
# In addition to the substitutions above, the text also does backslash
# escapes.
#
proc wapp-subst {txt} {
    global wapp
    reesub -all {% (html|url|qp|string|unsafe){ 1,1 } ?(|%)\((.+)\)\2} $txt \
        {[wappInt-enc-\1 "\3"]} txt
    dict append wapp .reply [uplevel 1 [list subst -novariables $txt]]
}

# Works like wapp-subst, but also removes whitespace from the beginning
# of lines.
#
proc wapp-trim {txt} {
    global wapp
    reesub -all {\n\s+} [string
    trim $txt] \n txt
    reesub -all {% (html|url|qp|string|unsafe){ 1,1 } ?(|%)\((.+)\)\2} $txt \
        {[wappInt-enc-\1 "\3"]} txt
    dict append wapp .reply [uplevel 1 [list subst -novariables $txt]]
}

# There must be a wappInt-enc-NAME routine for each possible substitution
# in wapp-subst. Thus there are routines for "html", "url", "qp", and "unsafe".
#
# wappInt-enc-html      Escape text so that it is safe to use in the
#                        body of an HTML document.
#
# wappInt-enc-url       Escape text so that it is safe to pass as an
#                        argument to href= and src= attributes in HTML.
#
# wappInt-enc-qp        Escape text so that it is safe to use as the
#                        value of a query parameter in a URL or in
#                        post data or in a cookie.
#
# wappInt-enc-string     Escape ", ', \, and < for using inside of a
#                        javascript string literal.

```

```

The < character
#           is escaped to prevent "</script>" from causing
#           problems in embedded javascript.
#
# wappInt-enc-unsafe      Perform no encoding at all.  Unsafe.
#
proc wappInt-enc-html {txt} {
    return [string map {& &lt; &gt; &quot; \\ &#92;} $txt]
}
proc wappInt-enc-unsafe {txt} {
    return $txt
}
proc wappInt-enc-url {s} {
    if {[regsub -all {[^-{}@~?=#_./a-zA-Z0-9]} $s {[wappInt-%HHchar {&}]} s]} {
        set s [subst -novar -noback $s]
    }
    if {[regsub -all {{{}}} $s {[wappInt-%HHchar \\&}]} {
        set s [subst -novar -noback $s]
    }
    return $s
}
proc wappInt-enc-qp {s} {
    if {[regsub -all {[^-{}_./a-zA-Z0-9]} $s {[wappInt-%HHchar {&}]} s]} {
        set s [subst -novar -noback $s]
    }
    if {[regsub -all {{{}}} $s {[wappInt-%HHchar \\&}]} {
        set s [subst -novar -noback $s]
    }
    return $s
}
proc wappInt-enc-string {s} {
    return [string map {\\ \\\\ \" \"\" ' \' < \u003c} $s]
}

# This is a
# helper routine for wappInt-enc-url and wappInt-enc-qp.  It returns
# an appropriate %HH encoding for the single character c.  If c is a unicode
# character, then this routine might return multiple bytes: %HH%HH%HH
#
proc wappInt-%HHchar {c} {
    if {$c==" "} {return +}
    return [regsub -all .. [binary encode hex [encoding convertto utf-8 $c]] {%&}]
}

# Undo the www-url-encoded format.
#
# HT: This code stolen from ncgi.tcl

```

```

#
proc wappInt-decode-url {str} {
  set str [string map [list + { } "\ " "\\\ " "\[\ \]" "\]] $str]
  regsub -all -- \
    {%([Ee][A-Fa-f0-9])%([89ABab][A-Fa-f0-9])%([89ABab][A-Fa-f0-9])} \
    $str {[encoding convertfrom utf-8 [binary decode hex \1\2\3]]} str
  regsub -all -- \
    {%([CDcd][A-Fa-f0-9])%([89ABab][A-Fa-f0-9])} \
    $str {[encoding convertfrom utf-8 [binary decode hex \1\2]]} str
  regsub -all -- {%([0-7][A-Fa-f0-9])} $str {\u00\1} str
  return [subst -novar $str]
}

```

# Reset the document back to an empty string.

```

#
proc
wapp-reset {} {
  global wapp
  dict set wapp .reply {}
}

```

# Change the mime-type of the result document.

```

#
proc wapp-mimetype {x} {
  global wapp
  dict set wapp .mimetype $x
}

```

# Change the reply code.

```

#
proc wapp-reply-code {x} {
  global wapp
  dict set wapp .reply-code $x
}

```

# Set a cookie

```

#
proc wapp-set-cookie {name value} {
  global wapp
  dict lappend wapp .new-cookies $name $value
}

```

# Unset a cookie

```

#
proc wapp-clear-cookie {name} {
  wapp-set-cookie $name {}
}

```

```

# Add extra entries to the reply header
#
proc wapp-reply-extra {name value} {
    global wapp
    dict lappend wapp .reply-extra $name $value
}

# Specifies how the web-page under construction should be cached.
# The argument should be one of:
#
# no-cache
# max-age=N          (for some integer number of seconds, N)
# private,max-age=N
#
proc wapp-cache-control {x} {
    wapp-reply-extra Cache-Control $x
}

# Redirect to a different web page
#
proc wapp-redirect {uri} {
    wapp-reply-code {307 Redirect}
    wapp-reply-extra
    Location $uri
}

# Return the value of a wapp parameter
#
proc wapp-param {name {dflt {}}} {
    global wapp
    if {![dict exists $wapp $name]} {return $dflt}
    return [dict get $wapp $name]
}

# Return true if a and only if the wapp parameter $name exists
#
proc wapp-param-exists {name} {
    global wapp
    return [dict exists $wapp $name]
}

# Set the value of a wapp parameter
#
proc wapp-set-param {name value} {
    global wapp
    dict set wapp $name $value
}

```

```

# Return all parameter names that match the GLOB pattern, or all
# names if the GLOB pattern is omitted.
#
proc wapp-param-list {{glob {*}} } {
  global wapp
  return [dict keys $wapp $glob]
}

# By default, Wapp does not decode query parameters and POST parameters
# for cross-origin requests. This is a security restriction, designed to
# help prevent cross-site request forgery (CSRF) attacks.
#
# As a consequence of this restriction, URLs for sites generated by Wapp
# that contain query parameters will not work as URLs
# found in other
# websites. You cannot create a link from a second website into a Wapp
# website if the link contains query planner, by default.
#
# Of course, it is sometimes desirable to allow query parameters on external
# links. For URLs for which this is safe, the application should invoke
# wapp-allow-xorigin-params. This procedure tells Wapp that it is safe to
# go ahead and decode the query parameters even for cross-site requests.
#
# In other words, for Wapp security is the default setting. Individual pages
# need to actively disable the cross-site request security if those pages
# are safe for cross-site access.
#
proc wapp-allow-xorigin-params { } {
  global wapp
  if {[dict exists $wapp .qp] && ![dict get $wapp SAME_ORIGIN]} {
    wappInt-decode-query-params
  }
}

# Set the content-security-policy.
#
# The default content-security-policy is very strict: "default-src 'self'"
# The default policy prohibits the use of in-line javascript or CSS.
#
# Provide an alternative
# CSP as the argument. Or use "off" to disable
# the CSP completely.
#
proc wapp-content-security-policy {val} {
  global wapp
  if {$val=="off"} {
    dict unset wapp .csp
  } else {

```

```

dict set wapp .csp $val
}
}

# Examine the bodys of all procedures in this program looking for
# unsafe calls to various Wapp interfaces. Return a text string
# containing warnings. Return an empty string if all is ok.
#
# This routine is advisory only. It misses some constructs that are
# dangerous and flags others that are safe.
#
proc wapp-safety-check {} {
set res {}
foreach p [info procs] {
set ln 0
foreach x [split [info body $p] \n] {
incr ln
if {[regexp {^[ \t]*wapp[ \t]+([\n]+)} $x all tail]
&& [string index $tail 0]!="\173"
&& [regexp {[[ $]} $tail]
} {
append res "$p:$ln: unsafe \"wapp\" call: \"[string trim $x]\"\\n"
}
if {[regexp {^[ \t]*wapp-(subst|trim)[ \t]+([\n]+)} $x all cx]} {
append res "$p:$ln: unsafe \"wapp-$cx\"
call: \"[string trim $x]\"\\n"
}
}
}
return $res
}

# Return a string that describes the current environment. Applications
# might find this useful for debugging.
#
proc wapp-debug-env {} {
global wapp
set out {}
foreach var [lsort [dict keys $wapp]] {
if {[string index $var 0]=="."} continue
append out "$var = [list [dict get $wapp $var]]\\n"
}
append out "[pwd] = [list [pwd]]\\n"
return $out
}

# Tracing function for each HTTP request. This is overridden by wapp-start
# if tracing is enabled.

```

```

#
proc wappInt-trace {} {}

# Start up a listening socket. Arrange to invoke wappInt-new-connection
# for each inbound HTTP connection.
#
# port      Listen on this TCP port. 0 means to select a port
#           that is not currently in use
#
# wappmode  One of "scgi", "server", or "local".
#
proc wappInt-start-listener {port wappmode} {
  if {$wappmode=="scgi"} {
    set type SCGI
    set server [list wappInt-new-connection
wappInt-scgi-readable $wappmode]
  } else {
    set type HTTP
    set server [list wappInt-new-connection wappInt-http-readable $wappmode]
  }
  if {$wappmode=="local"} {
    set x [socket -server $server -myaddr 127.0.0.1 $port]
  } else {
    set x [socket -server $server $port]
  }
  set coninfo [chan configure $x -sockname]
  set port [lindex $coninfo 2]
  if {$wappmode=="local"} {
    wappInt-start-browser http://127.0.0.1:$port/
  } else {
    puts "Listening for $type requests on TCP port $port"
  }
}

# Start a web-browser and point it at $URL
#
proc wappInt-start-browser {url} {
  global tcl_platform
  if {$tcl_platform(platform)=="windows"} {
    exec cmd /c start $url &
  } elseif {$tcl_platform(os)=="Darwin"} {
    exec open $url &
  } elseif {[catch {exec xdg-open $url}]} {
    exec firefox $url &
  }
}

# This routine is a "socket -server" callback. The $chan, $ip, and $port

```



```

# arguments are added by the socket command.
#
# Arrange to invoke $callback when content is available
on the new socket.
# The $callback will process inbound HTTP or SCGI content.
#
proc wappInt-new-connection {callback wappmode chan ip port} {
  upvar #0 wappInt-$chan W
  set W [dict create REMOTE_ADDR $ip REMOTE_PORT $port WAPP_MODE $wappmode \
    .header {}]
  fconfigure $chan -blocking 0 -translation binary
  fileevent $chan readable [list $callback $chan]
}

# Close an input channel
#
proc wappInt-close-channel {chan} {
  if {$chan=="stdout"} {
    # This happens after completing a CGI request
    exit 0
  } else {
    unset ::wappInt-$chan
    close $chan
  }
}

# Process new text received on an inbound HTTP request
#
proc wappInt-http-readable {chan} {
  if {[catch [list wappInt-http-readable-unsafe $chan] msg]} {
    puts stderr "$msg\n$::errorInfo"
    wappInt-close-channel $chan
  }
}

proc wappInt-http-readable-unsafe {chan} {
  upvar #0 wappInt-$chan W wapp wapp
  if {![dict exists $W .toread]} {
    # If the .toread key is not set, that means we are still reading
    # the header
    set line [string trimright [gets $chan]]
    set n [string length $line]
    if {$n>0} {
      if {[dict get $W .header]=="" || [regexp {^\s+} $line]} {
        dict append W .header $line
      } else {
        dict append W .header \n$line
      }
    }
    if {[string length [dict get $W .header]]>100000} {

```

```

    error "HTTP request header too big - possible DOS attack"
}
} elseif {$n==0} {
# We have reached the blank line that terminates the header.
global argv0
set a0 [file normalize $argv0]
dict set W SCRIPT_FILENAME $a0
dict set W DOCUMENT_ROOT [file dir $a0]
if {[wappInt-parse-header $chan]} {
    catch {close $chan}
    return
}
set len 0
if {[dict exists $W CONTENT_LENGTH]} {
    set len [dict get $W CONTENT_LENGTH]
}
if {$len>0} {
    # Still need to read the query content
    dict set W .toread $len
} else {
    # There is no query content, so handle
the request immediately
    set wapp $W
    wappInt-handle-request $chan 0
}
} else {
# If .toread is set, that means we are reading the query content.
# Continue reading until .toread reaches zero.
set got [read $chan [dict get $W .toread]]
dict append W CONTENT $got
dict set W .toread [expr {[dict get $W .toread]-[string length $got]}]
if {[dict get $W .toread]<=0} {
    # Handle the request as soon as all the query content is received
    set wapp $W
    wappInt-handle-request $chan 0
}
}
}

# Decode the HTTP request header.
#
# This routine is always running inside of a [catch], so if
# any problems arise, simply raise an error.
#
proc wappInt-parse-header {chan} {
    upvar #0 wappInt-$chan W
    set hdr [split [dict get $W .header] \n]

```

```

if {$hdr==""} {return 1}
set req [lindex $hdr 0]
dict set W REQUEST_METHOD [set method [lindex $req 0]]
if {[lsearch {GET HEAD POST} $method]<0} {
    error "unsupported request method:
\"[dict get $W REQUEST_METHOD]\""
}
set uri [lindex $req 1]
set split_uri [split $uri ?]
set uri0 [lindex $split_uri 0]
if {[!regexp {^[-.a-z0-9_]*$} $uri0]} {
    error "invalid request uri: \"$uri0\""
}
dict set W REQUEST_URI $uri0
dict set W PATH_INFO $uri0
set uri1 [lindex $split_uri 1]
dict set W QUERY_STRING $uri1
set n [llength $hdr]
for {set i 1} {$i<$n} {incr i} {
    set x [lindex $hdr $i]
    if {[!regexp {^(.+):+(.*)$} $x all name value]} {
        error "invalid header line: \"$x\""
    }
    set name [string toupper $name]
    switch -- $name {
        REFERER {set name HTTP_REFERER}
        USER-AGENT {set name HTTP_USER_AGENT}
        CONTENT-LENGTH {set name CONTENT_LENGTH}
        CONTENT-TYPE {set name CONTENT_TYPE}
        HOST {set name HTTP_HOST}
        COOKIE {set name HTTP_COOKIE}
        ACCEPT-ENCODING {set name HTTP_ACCEPT_ENCODING}
        default {set name .hdr:$name}
    }
    dict set W $name $value
}
return 0
}

# Decode the QUERY_STRING
parameters from a GET request or the
# application/x-www-form-urlencoded CONTENT from a POST request.
#
# This routine sets the ".qp" element of the ::wapp dict as a signal
# that query parameters have already been decoded.
#
proc wappInt-decode-query-params {} {
    global wapp

```



```

#
proc wappInt-handle-request {chan useCgi} {
  global wapp
  dict set wapp .reply {}
  dict set wapp .mimetype {text/html; charset=utf-8}
  dict set wapp .reply-code {200 Ok}
  dict set wapp .csp {default-src 'self'}

  # Set up additional CGI environment values
  #
  if {[dict exists $wapp HTTP_HOST]} {
    dict set wapp BASE_URL {}
  } elseif {[dict exists $wapp HTTPS]} {
    dict set wapp BASE_URL https://[dict get $wapp HTTP_HOST]
  } else {
    dict set wapp BASE_URL http://[dict get $wapp HTTP_HOST]
  }
  if {[dict exists $wapp REQUEST_URI]} {
    dict set wapp REQUEST_URI /
  } elseif {[regsub {\?.*} [dict get $wapp REQUEST_URI] {} newR]} {
    # Some servers (ex: nginx) append the query parameters to REQUEST_URI.
    # These need to be stripped off
    dict set wapp REQUEST_URI $newR
  }
  if {[dict exists $wapp SCRIPT_NAME]} {
    dict append wapp BASE_URL [dict get $wapp SCRIPT_NAME]
  } else {
    dict set wapp
SCRIPT_NAME {}
  }
  if {[dict exists $wapp PATH_INFO]} {
    # If PATH_INFO is missing (ex: nginx) the construct it
    set URI [dict get $wapp REQUEST_URI]
    set skip [string length [dict get $wapp SCRIPT_NAME]]
    dict set wapp PATH_INFO [string range $URI $skip end]
  }
  if {[regexp {^(/[^\+](.*)$} [dict get $wapp PATH_INFO] all head tail]} {
    dict set wapp PATH_HEAD $head
    dict set wapp PATH_TAIL [string trimleft $tail /]
  } else {
    dict set wapp PATH_INFO {}
    dict set wapp PATH_HEAD {}
    dict set wapp PATH_TAIL {}
  }
  dict set wapp SELF_URL [dict get $wapp BASE_URL]/[dict get $wapp PATH_HEAD]

  # Parse query parameters from the query string, the cookies, and
  # POST data

```

```

#
if {[dict exists $wapp HTTP_COOKIE]} {
  foreach qterm [split [dict get $wapp HTTP_COOKIE] {;}] {
    set qsplit [split [string trim $qterm] =]
    set nm [lindex $qsplit 0]
    if {[regexp {[a-z][-a-z0-9_]*$} $nm]} {
      dict set wapp $nm [wappInt-decode-url [lindex
$wapp $nm]]
    }
  }
}
set same_origin 0
if {[dict exists $wapp HTTP_REFERER]} {
  set referer [dict get $wapp HTTP_REFERER]
  set base [dict get $wapp BASE_URL]
  if {$referer==$base || [string match $base/* $referer]} {
    set same_origin 1
  }
}
dict set wapp SAME_ORIGIN $same_origin
if {$same_origin} {
  wappInt-decode-query-params
}

# Invoke the application-defined handler procedure for this page
# request. If an error occurs while running that procedure, generate
# an HTTP reply that contains the error message.
#
wapp-before-dispatch-hook
wappInt-trace
set mname [dict get $wapp PATH_HEAD]
if {[catch {
  if {$mname!=""} && [lindex [info proc wapp-page-$mname]>0]} {
    wapp-page-$mname
  } else {
    wapp-default
  }
} msg]} {
  if {[wapp-param WAPP_MODE]=="local" || [wapp-param WAPP_MODE]=="server"} {
    puts "ERROR: $::errorInfo"
  }
  wapp-reset
  wapp-reply-code "500 Internal Server Error"
  wapp-mimetype
  text/html
  wapp-trim {
    <h1>Wapp Application Error</h1>
    <pre>%html($::errorInfo)</pre>
  }
}

```

```

}
dict unset wapp .new-cookies
}

# Transmit the HTTP reply
#
if {$chan=="stdout"} {
  puts $chan "Status: [dict get $wapp .reply-code]\r"
} else {
  puts $chan "HTTP/1.1 [dict get $wapp .reply-code]\r"
  puts $chan "Server: wapp\r"
  puts $chan "Connection: close\r"
}
if {[dict exists $wapp .reply-extra]} {
  foreach {name value} [dict get $wapp .reply-extra] {
    puts $chan "$name: $value\r"
  }
}
if {[dict exists $wapp .csp]} {
  puts $chan "Content-Security-Policy: [dict get $wapp .csp]\r"
}
set mimetype [dict get $wapp .mimetype]
puts $chan "Content-Type: $mimetype\r"
if {[dict exists $wapp .new-cookies]} {
  foreach {nm val} [dict get $wapp .new-cookies] {
    if {[regexp {[a-z][-a-z0-9_]*$} $nm]} {
      if {$val==""} {
        puts $chan "Set-Cookie: $nm=; HttpOnly; Path=/; Max-Age=1\r"
      } else {
        set
      }
    }
  }
}
val [wappInt-enc-url $val]
puts $chan "Set-Cookie: $nm=$val; HttpOnly; Path=^\r"
}
}
}
if {[string match text/* $mimetype]} {
  set reply [encoding convertto utf-8 [dict get $wapp .reply]]
  if {[regexp {\ygzip\y} [wapp-param HTTP_ACCEPT_ENCODING]]} {
    catch {
      set x [zlib gzip $reply]
      set reply $x
      puts $chan "Content-Encoding: gzip\r"
    }
  }
} else {
  set reply [dict get $wapp .reply]
}
}

```

```

puts $chan "Content-Length: [string length $reply]\r"
puts $chan \r
puts $chan $reply
flush $chan
wappInt-close-channel $chan
}

# This routine runs just prior to request-handler dispatch. The
# default implementation is a no-op, but applications can override
# to do additional transformations or checks.
#
proc wapp-before-dispatch-hook {} {return}

# Process a single CGI request
#
proc wappInt-handle-cgi-request {} {
  global wapp env
  foreach key {
    CONTENT_LENGTH
    CONTENT_TYPE
    DOCUMENT_ROOT
    HTTP_ACCEPT_ENCODING
    HTTP_COOKIE
    HTTP_HOST
    HTTP_REFERER
    HTTP_USER_AGENT
    HTTPS
    PATH_INFO
    QUERY_STRING
    REMOTE_ADDR
    REQUEST_METHOD
    REQUEST_URI
    REMOTE_USER
    SCRIPT_FILENAME
    SCRIPT_NAME
    SERVER_NAME
    SERVER_PORT
    SERVER_PROTOCOL
  } {
    if {[info exists env($key)]} {
      dict set wapp $key $env($key)
    }
  }
  set len 0
  if {[dict exists $wapp CONTENT_LENGTH]} {
    set len [dict get $wapp CONTENT_LENGTH]
  }
  if {$len>0} {

```



```

fconfigure stdin -translation binary
dict set wapp CONTENT [read stdin $len]
}
dict set wapp WAPP_MODE cgi
fconfigure stdout -translation binary
wappInt-handle-request stdout 1
}

# Process new text received on an inbound SCGI request
#
proc wappInt-scgi-readable {chan} {
if {[catch [list wappInt-scgi-readable-unsafe $chan] msg]} {
puts stderr "$msg\n$::errorInfo"
wappInt-close-channel $chan
}
}
proc wappInt-scgi-readable-unsafe {chan} {
upvar #0 wappInt-$chan W wapp wapp
if
{![dict exists $W .toread]} {
# If the .toread key is not set, that means we are still reading
# the header.
#
# An SGI header is short. This implementation assumes the entire
# header is available all at once.
#
set req [read $chan 15]
set n [string length $req]
scan $req %d:%s len hdr
incr len [string length "$len:,"]
append hdr [read $chan [expr {$len-15}]]
foreach {nm val} [split $hdr \000] {
if {$nm==","} break
dict set W $nm $val
}
set len 0
if {[dict exists $W CONTENT_LENGTH]} {
set len [dict get $W CONTENT_LENGTH]
}
if {$len>0} {
# Still need to read the query content
dict set W .toread $len
} else {
# There is no query content, so handle the request immediately
set wapp $W
wappInt-handle-request $chan 0
}
} else {

```

```

# If .toread is set, that means we are reading the query content.
# Continue reading until .toread reaches zero.
set got [read
$chan [dict get $W .toread]]
dict append W CONTENT $got
dict set W .toread [expr {[dict get $W .toread]-[string length $got]}]
if {[dict get $W .toread]<=0} {
    # Handle the request as soon as all the query content is received
    set wapp $W
    wappInt-handle-request $chan 0
}
}
}

# Start up the wapp framework. Parameters are a list passed as the
# single argument.
#
# -server $PORT      Listen for HTTP requests on this TCP port $PORT
#
# -local $PORT      Listen for HTTP requests on 127.0.0.1:$PORT
#
# -scgi $PORT       Listen for SCGI requests on TCP port $PORT
#
# -cgi              Handle a single CGI request
#
# With no arguments, the behavior is called "auto". In "auto" mode,
# if the GATEWAY_INTERFACE environment variable indicates CGI, then run
# as CGI. Otherwise, start an HTTP server bound to the loopback address
# only, on an arbitrary TCP port, and automatically launch a web browser
# on that TCP port.
#
# Additional
options:
#
# -trace           "puts" each request URL as it is handled, for
#                 debugging
#
# -lint           Run wapp-safety-check on the application instead
#                 of running the application itself
#
# -Dvar=value     Set TCL global variable "var" to "value"
#
#
proc wapp-start {arglist} {
    global env
    set mode auto
    set port 0
    set n [llength $arglist]

```

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for {set i 0} {$i<$n} {incr i} {
  set term [lindex $arglist $i]
  if {[string match --* $term]} {set term [string range $term 1 end]}
  switch -glob -- $term {
    -server {
      incr i;
      set mode "server"
      set port [lindex $arglist $i]
    }
    -local {
      incr i;
      set mode "local"
      set port [lindex $arglist $i]
    }
    -scgi {
      incr i;
      set mode "scgi"
      set port [lindex $arglist $i]
    }
    -cgi {
      set mode "cgi"
    }
    -trace {
      proc wappInt-trace {} {

set q [wapp-param QUERY_STRING]
  set uri [wapp-param BASE_URL][wapp-param PATH_INFO]
  if {$q!=""} {append uri ?$q}
  puts $uri
}
}
-lint {
  set res [wapp-safety-check]
  if {$res!=""} {
    puts "Potential problems in this code:"
    puts $res
    exit 1
  } else {
    exit
  }
}
-D*=* {
  if {[regexp {^\.D([^\=]+)=(.*)$} $term all var val]} {
    set ::$var $val
  }
}
default {
  error "unknown option: $term"
}

```

```

    }
  }
}
if {($mode=="auto"
    && [info exists env(GATEWAY_INTERFACE)]
    && [string match CGI/1.* $env(GATEWAY_INTERFACE)])
    || $mode=="cgi"
} {
    wappInt-handle-cgi-request
    return
}
if {$mode=="scgi"} {
    wappInt-start-listener $port scgi
} elseif {$mode=="server"} {
    wappInt-start-listener $port server
} else {
    wappInt-start-listener $port local
}
vwait ::forever
}

# Call this version
1.0
package provide wapp 1.0

#### End of wapp.tcl

# Generate all header content for the output document
#
proc search_header {} {
    wapp-trim {
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
<html><head>
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<meta http-equiv="content-type" content="text/html; charset=UTF-8">
<link href="../sqlite.css" rel="stylesheet">
<title>Search SQLite Stats</title>
<!-- path=../ -->
</head>
<body>
<div class=nosearch>
<a href="../index.html">

</a>
<div><!-- IE hack to prevent disappearing logo --></div>
<div class="tagline desktoponly">
Small. Fast. Reliable.<br>Choose any three.
</div>

```

```

<div class="menu mainmenu">
<ul>
<li><a href="../index.html">Home</a>
<li class='mobileonly'><a href="javascript:void(0)" onclick='toggle_div("submenu")'>Menu</a>
<li class='wideonly'><a href='../about.html'>About</a>
<li class='desktoponly'><a
href="../docs.html">Documentation</a>
<li class='desktoponly'><a href="../download.html">Download</a>
<li class='wideonly'><a href='../copyright.html'>License</a>
<li class='desktoponly'><a href="../support.html">Support</a>
<li class='desktoponly'><a href="../prosupport.html">Purchase</a>
<li class='search' id='search_menubutton'>
<a href="javascript:void(0)" onclick='toggle_search()'>Search</a>
</ul>
</div>
<div class="menu submenu" id="submenu">
<ul>
<li><a href='../about.html'>About</a>
<li><a href='../docs.html'>Documentation</a>
<li><a href='../download.html'>Download</a>
<li><a href='../support.html'>Support</a>
<li><a href='../prosupport.html'>Purchase</a>
</ul>
</div>
<div class="searchmenu" id="searchmenu">
<form method="GET" action="../search">
<select name="s" id="searchtype">
<option value="d">Search Documentation</option>
<option value="c">Search Changelog</option>
</select>
<input type="text" name="q" id="searchbox" value="">
<input type="submit" value="Go">
</form>
</div>
</div>
<script>
function
toggle_div(nm) {
var w = document.getElementById(nm);
if( w.style.display=="block" ){
w.style.display = "none";
}else{
w.style.display = "block";
}
}
function toggle_search() {
var w = document.getElementById("searchmenu");
if( w.style.display=="block" ){

```

```

w.style.display = "none";
} else {
w.style.display = "block";
setTimeout(function(){
document.getElementById("searchbox").focus()
}, 30);
}
}
function div_off(nm){ document.getElementById(nm).style.display="none";}
window.onbeforeunload = function(e){ div_off("submenu");}
/* Disable the Search feature if we are not operating from CGI, since */
/* Search is accomplished using CGI and will not work without it. */
if( !location.origin.match || !location.origin.match(/http/) ){
document.getElementById("search_menubutton").style.display = "none";
}
/* Used by the Hide/Show button beside syntax diagrams, to toggle the */
function hideorshow(btn,obj){
var x = document.getElementById(obj);
var b
= document.getElementById(btn);
if( x.style.display!='none' ){
x.style.display = 'none';
b.innerHTML='show';
}else{
x.style.display = "";
b.innerHTML='hide';
}
return false;
}
</script>
</div>
}
}

```

```

proc wapp-default { } {
# When running using the built-in webserver in Wapp (in other words,
# when not running as CGI) any filename that contains a "." loads
# directly from the filesystem.
if {[wapp-param WAPP_MODE]!="cgi"}
&& [string match *.* [wapp-param PATH_INFO]]
} {
set altfile [file dir [wapp-param SCRIPT_FILENAME]]/../[wapp-param PATH_INFO]
set fd [open $altfile rb]
fconfigure $fd -translation binary
wapp-unsafe [read $fd]
close $fd
switch -glob -- $altfile {
*.html {

```

```

    wapp-mimetype text/html
  }
  *.css {
    wapp-mimetype text/css
  }
  *.gif {
    wapp-mimetype image/gif
  }
}
return
}
wapp-page-admin
}
proc wapp-page-admin {} {
  wapp-allow-xorigin-params
  wapp-content-security-policy off
  if {[wapp-param-exists env]} {
    search_header
    wapp-trim {
      <h1>Environment</h1>
      <pre>%html([wapp-debug-env])</pre>
    }
    return
  }
  sqlite3 db2 [file dir [wapp-param SCRIPT_FILENAME]]/searchlog.db
  set where ""
  set res ""

  set ipfilter ""
  set ipaddr [wapp-param ip]
  if {$ipaddr!=""} {
    set where {WHERE ip = $ipaddr}
    set ipfilter $ipaddr
  }

  set checked ""
  set isUnique [expr {[wapp-param unique 0]+0}]
  if {$isUnique} {
    set checked "checked"
  }

  set limit [wapp-param limit 10]
  set s10 ""
  set s100 ""
  set s1000 ""
  if {$limit==10} {set s10 selected}
  if {$limit==100} {set s100 selected}
  if {$limit==1000} {set s1000 selected}

```

```

search_header
set self [wapp-param PATH_HEAD]
wapp-trim {
  <div style="margin:2em">
  <center>
  <form action='%url($self)' method='GET'>
    Results: <select name=limit onChange="this.form.submit()">
      <option %html($s10) value="10">10</option>
      <option %html($s100) value="100">100</option>
      <option %html($s1000) value="1000">1000</option>
    </select>
    IP: <input type=input name=ip value="%html($ipfilter)">
    Unique: <input
      type=checkbox name=unique value=1
      $checked
      onChange="this.form.submit()">
    <input type=submit>
  </form>
  </center>
  </div>
  <table border=1 cellpadding=10 align=center>
  <tr><td><th>IP <th>Query <th> Results <th> Timestamp
}

set i 0
db2 eval "
SELECT rowid, ip, query, nres, timestamp FROM log $where
ORDER BY rowid DESC
" {

  if {$sisUnique} {
    if {[info exists seen($query)]} continue
    set seen($query) 1
  }

  wapp-trim {
    <tr><td>%html($rowid)
      <td><a href='%url($self)?ip=%qp($ip)'>%html($ip)</a>
      <td><a href='../search?q=%qp($query)&donotlog=1'>%html($query)</a>
      <td>%html($nres)<td>%html($timestamp)
  }
  incr i
  if {$i >= $limit} break
}
wapp-subst {</table\n}
db2 close
}

```



wapp-start \$argv

Found

in path(s):

\* /opt/cola/permits/1146776895\_1616740027.09/0/sqlite3-3-27-2-orig-www-1-tar-xz/www/search.d/admin

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

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inline

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```
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under certain conditions; type `show c' for details.
```

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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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Version 3, 29 June 2007

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The

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## 1.811 libbsd 0.9.1 2+deb10u1

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That's all there is to it!

# 1.817 e2fsprogs 1.46.2-1~bpo10+2

## 1.817.1 Available under license :

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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#

# This is 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::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
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```

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Index: tdbsa/tdb.c

-----  
--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version
  
- trivial database library - private includes
- 
- Copyright (C) Andrew Tridgell            2005
- + Copyright (C) Andrew Tridgell            1999-2005
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Gadi Oxman, August 1995

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```
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```
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```

```
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Theodore Ts'o  
23-June-2007

-----  
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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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*/
```

```
/**
* AUTOMATICALLY GENERATED CODE - DO NOT MODIFY
*/
```

```
package datatypes
```

```
// no documentation yet
```

```
type Legal_RegulatedWorkload struct {
    Entity
```

```
// no documentation yet
```

```
Account *Account `json:"account,omitempty" xmlrpc:"account,omitempty"``
```

```
// no documentation yet
```

```
AccountId *int `json:"accountId,omitempty" xmlrpc:"accountId,omitempty"``
```

```
// no documentation yet
```

```
EnabledFlag *bool `json:"enabledFlag,omitempty"
xmlrpc:"enabledFlag,omitempty"``
```

```
// no documentation yet
```

```
Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"``
```

```
// no documentation yet
```

```
Type *Legal_RegulatedWorkload_Type `json:"type,omitempty" xmlrpc:"type,omitempty"``
```

```
// no documentation yet
```

```
WorkloadTypeId *int `json:"workloadTypeId,omitempty" xmlrpc:"workloadTypeId,omitempty"``
}
```

```
// no documentation yet
```

```
type Legal_RegulatedWorkload_Type struct {
    Entity
```

```
// no documentation yet
```

```

Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"`

// no documentation yet
KeyName *string `json:"keyName,omitempty" xmlrpc:"keyName,omitempty"`

// no documentation yet
Name *string `json:"name,omitempty" xmlrpc:"name,omitempty"`
}
# People who can (and typically have) contributed to this repository.
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#

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---

layout: api

page\_title: /sys/license - HTTP API

description: |-

The `/sys/license`` endpoint is used to view and update the license used in Vault.

---

# `/sys/license``

~> **\*\*Enterprise Only\*\*** These endpoints require Vault Enterprise.

The `/sys/license`` endpoint is used to view and update the license used in Vault.

## Read License

This endpoint returns information about the currently installed license.

```
| Method | Path      |
|:-----|:-----|
| `GET`  | /sys/license` |
```

### Sample Request

```
```shell-session
$ curl \
  --header "X-Vault-Token: ..." \
  http://127.0.0.1:8200/v1/sys/license
```
```

### Sample Response

```
```json
{
  "data": {
    "expiration_time": "2017-11-14T16:34:36.546753-05:00",
    "features": ["UI", "HSM", "Performance Replication", "DR Replication"],
    "license_id": "temporary",
    "start_time": "2017-11-14T16:04:36.546753-05:00"
  },
  "warnings": ["time left on license is 29m33s"]
}
```
```

## Read Signed License

This endpoint returns the signed license blob for the currently installed license.

```
| Method | Path      |
```



```
|:-----|:-----|
|`GET`|`/sys/license/signed`|
```

### ### Sample Request

```
```shell-session
$ curl \
  --header "X-Vault-Token: ..." \
  http://127.0.0.1:8200/v1/sys/license/signed
```
```

### ### Sample Response

```
```json
{
  "data": {
    "signed": "01ABCDEFGF..."
  }
}
```
```

### ## Install License

This endpoint is used to install a license into Vault.

```
Method	Path
`PUT`	`/sys/license`
```

### ### Parameters

- `text` `(string: <required>)` The text of the license.

#### \_DR Secondary Specific Parameters\_

- `dr\_operation\_token` `(string: <required>)` - DR operation token used to authorize this request.

### ### Sample Payload

```
```json
{
  "text": "01ABCDEFGF..."
}
```
```

### ### Sample Request

```
```shell-session
```

```
$ curl \  
  --header "X-Vault-Token: ..." \  
  --request PUT \  
  --data @payload.json \  
  http://127.0.0.1:8200/v1/sys/license  
...
```

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Version 3, 29 June 2007

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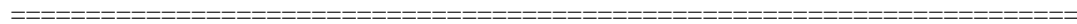
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Go support for Protocol Buffers - Google's data interchange format

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Support for streaming Protocol Buffer messages for the Go language (golang).

[https://github.com/matttproud/golang\\_protobuf\\_extensions](https://github.com/matttproud/golang_protobuf_extensions)

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  @model={{model}}
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package command

```
import (  
    "strings"  
  
    "github.com/mitchellh/cli"  
)  
  
var _ cli.Command = (*LicenseCommand)(nil)  
  
type LicenseCommand struct {  
    *BaseCommand  
}
```

```
func (c *LicenseCommand) Synopsis() string {
    return "Interact with licenses"
}
```

```
func (c *LicenseCommand) Help() string {
    helpText := `
Usage: vault license <subcommand> [options] [args]
```

This command groups subcommands for interacting with Vault licenses.

Get the current Vault license:

```
$ vault license get
```

Please see the individual subcommand help for detailed usage information.

```
return strings.TrimSpace(helpText)
}
```

```
func (c *LicenseCommand) Run(args []string) int {
    return cli.RunResultHelp
}
```

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**PART 1. VIRTUAL APPLIANCE: APPLICATION LAYER**

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```
>>> appengine-ca59ef35f409df61fa4a5f8290ff289b37eccfb8
>>> aws_aws-sdk-go_aws-master
>>> coreos_etcd_client-781196fa8746d6c34ace2a62898051af6dc46002
>>> coreos_etcd_version-781196fa8746d6c34ace2a62898051af6dc46002
>>> coreos_go-semver_semver-5e3acbb5668c4c3deb4842615c4098eb61fb6b1e
>>> docker_distribution-28602af35aceda2f8d571bad7ca37a54cf0250bc
>>> docker_go-events-aa2e3b613fbbfdddbe055a7b9e3ce271cfd83eca
>>> docker_libnetwork-fd27f22aaa35e3d57f88688f919d05b744f431fd
>>> docker_libtrust-9cbd2a1374f46905c68a4eb3694a130610adc62a
>>> go-openapi_analysis-d5a75b7d751ca3f11ad5d93cfe97405f2c3f6a47
>>> go-openapi_errors-fc3f73a224499b047eda7191e5d22e1e9631e86f
>>> go-openapi_jsonpointer-779f45308c19820f1a69e9a4cd965f496e0da10f
>>> go-openapi_jsonreference-36d33bfe519efae5632669801b180bf1a245da3b
>>> go-openapi_loads-6bb6486231e079ea125c0f39994ed3d0c53399ed
>>> go-openapi_runtime-3b13ebb46790d871d74a6c2450fa4b1280f90854
>>> go-openapi_spec-e072eb2390d3a03736a6eb617d30f48369160447
>>> go-openapi_strfmt-0cb3db44c13bad3b3f567b762a66751972a310cc
>>> go-openapi_swag-96d7b9ebd181a1735a1c9ac87914f2b32fbf56c9
>>> go-openapi_validate-035dcd74f1f61e83debe1c22950dc53556e7e4b2
>>> go_compute_metadata-cd0da878c66091060d2e7403abd62192b3e387e0
>>> go_internal-cd0da878c66091060d2e7403abd62192b3e387e0
>>> golang_glog-23def4e6c14b4da8ac2ed8007337bc5eb5007998
>>> golang_groupcache_lru-72d04f9fcdec7d3821820cc4a6f150eae553639a
>>> govmomi-v0.17.1
>>> maruel_panicparse_stack-25bcac0d793cf4109483505a0d66e066a3a90a80
>>> oxtocart/bpool-4e1c5567d7c2dd59fa4c7c83d34c2f3528b025d6
>>> syncutil_singleflight-7ce08ca145dbe0e66a127c447b80ee7914f3e4f9
>>> vdemeester_shakers-24d7f1d6a71aa5d9cbe7390e4afb66b7eef9e1b3
>>> vishvananda_netlink-482f7a52b758233521878cb6c5904b6bd63f3457
>>> vishvananda_netns-604eaf189ee867d8c147fafc28def2394e878d25
>>> yaml_v2-4c78c975fe7c825c6d1466c42be594d1d6f3aba6
```

## SECTION 2: BSD-STYLE, MIT-STYLE, OR SIMILAR STYLE LICENSES

```
>>> agl_ed25519-master
>>> airbrake_gobrake_v2-c9d51adc624b5cc4c1bf8de730a09af4878ffe2d
>>> api_compute_v1-dfa61ae24628a06502b9c2805d983b57e89399b5
>>> api_gensupport-dfa61ae24628a06502b9c2805d983b57e89399b5
>>> api_googleapi-dfa61ae24628a06502b9c2805d983b57e89399b5
>>> armon_go-metrics-f303b03b91d770a11a39677f1d3b55da4002bbcb
>>> armon_go-radix-4239b77079c7b5d1243b7b4736304ce8ddb6f0f2
>>> asaskevich_govalidator-9699ab6b38bee2e02cd3fe8b99ecf67665395c96
>>> azure_go-ansiterm-70b2c90b260171e829f1ebd7c17f600c11858dbe
>>> boltdb_bolt-b514920f8f2e0a68f857e5a12c774f385a59aef9
```

```
>>> cenkalti_backoff-b02f2bbce11d7ea6b97f282ef1771b0fe2f65ef3
>>> client9_misspell-9a1fc2456ac9e8c9b4cbe9d005b6e7adac0d357f
>>> codegangsta/inject-33e0aa1cb7c019ccc3fbe049a8262a6403d30504
>>> codegangsta_cli-master

>>> cpuguy83_go-md2man_md2man-a65d4d2de4d5f7c74868dfa9b202a3c8be315aaa
>>> d2g_dhcp4-f0e4d29ff0231dce36e250b2ed9ff08412584bca
>>> deckarep_golang-set-1f0f4ff8d3fbef9328522993ce71c35890f67554
>>> dustin_go-humanize-259d2a102b871d17f30e3cd9881a642961a1e486
>>> gemnasium_logrus-airbrake-hook_v2-31e6fd4bd5a98d8ee7673d24bc54ec73c31810dd
>>> gizak_termui-798ffb9cbbe4073ef1f88e6069ca4a2c6aa6676b
>>> go-check_check-20d25e2804050c1cd24a7eea1e7a6447dd0e74ec
>>> go-martini/martini-22fa46961aab2665cf3f1343b146d20028f5071
>>> go-nfs-client-42fca177a36031d648551c751de1daf5f55dd4f0
>>> godbus_dbus-230e4b23db2fd81c53eaa0073f76659d4849ce51
>>> gogo_protobuf_gogoproto-6a92c871a8f5333cf106b2cdf937567208dbb2b7
>>> gogo_protobuf_proto-6a92c871a8f5333cf106b2cdf937567208dbb2b7
>>> gogo_protobuf_protoc-gen-gogo_descriptor-6a92c871a8f5333cf106b2cdf937567208dbb2b7
>>> gogo_protobuf_sortkeys-6a92c871a8f5333cf106b2cdf937567208dbb2b7
>>> gogo_protobuf_types-6a92c871a8f5333cf106b2cdf937567208dbb2b7
>>> goji/param-d7f49fd7d1ed53fd562e737a8b5bbcc7e3d925e2
>>> golang_lint-cb00e5669539f047b2f4c53a421a01b0c8e172c6
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>>> google_go-querysting_query-53e6ce116135b80d037921a7fdd5138cf32d7a8a
>>> google_uuid-f3f4b54b2fabcf1f11dcc939025bb0c109b00ed8
>>> googleapis_gax-go-da06d194a00e19ce00d9011a13931c3f6f6887c7
>>> gorilla_context-1c83b3eabd45b6d76072b66b746c20815fb2872d
>>> gorilla_mux-acf3be1b335c8ce30b2c8d51300984666f0ceefa
>>> gorilla_securecookie-fa5329f913702981df43dcb2a380bac429c810b5
>>> gorilla_sessions-ca9ada44574153444b00d3fd9c8559e4cc95f896
>>> gorilla_websocket-a91eba7f9777409bc2c443f5534d41dd20c5720
>>> graylog2_go-gelf_gelf-master
>>> grpc-b1a2821ca5a4fd6b6e48ddffb7d6d7584d839d21
>>> hpccloud_tail-a30252cb686a21eb2d0b98132633053ec2f7f1e5
>>> jessevdk_go-flags-97448c91aac742cbca3d020b3e769013a420a06f
>>> julienschmidt/httprouter-975b5c4c7c21c0e3d2764200bf2aa8e34657ae6e
>>> justinas/alice-1051eaf52fcadd87ead59d28b065f1fcb8274ec
>>> kr_pty-f7ee69f31298ecbe5d2b349c711e2547a617d398
>>> mailru_easyjson-99e922cf9de1bc0ab38310c277cff32c2147e747
>>> martini-contrib/render-ec18f8345a1181146728238980606fb1d6f40e8c
>>> matryer_resync-d39c09a11215c84aab0b65e323fc47dd6e276af1
>>> mattn_go-runewidth-14207d285c6c197daabb5c9793d63e7af9ab2d50
>>> mdlayher/arp-7140e8e22da120cb3efc8e1096f299933624024e
>>> mdlayher/ethernet-e72cf8343052938936194daba1914fd1bb33d2fe
>>> mdlayher/raw-c83864e487652c25edc58048eafdc1dfa2f142c7
>>> microsoft_go-winio-24a3e3d3fc7451805e09d11e11e95d9a0a4f205e
>>> microsoft_hcsshim-d327ca738085de7d617aa1df16d98fe7a64c2455
>>> miekg_dns-ca336a1f95a6b89be9c250df26c7a41742eb4a6f
```

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>>> mitchellh\_mapstructure-5a0325d7fafaac12dda6e7fb8bd222ec1b69875e  
>>> mreiferson\_go-httpclient-31f0106b4474f14bc441575c19d3a5fa21aa1f6c  
>>> naoina\_denco-9af2ba0e24214bac003821f4a501b131b2e04c75  
>>> nlopes\_slack-f243c7602fdf906248fc1f165284daa4e4d2d09e  
>>> nsf\_termbox-go-91bae1bb5fa9ee504905ecbe7043fa30e92feaa3  
>>> opennota\_urlesc-5fa9ff0392746aeae1c4b37fcc42c65afa7a9587  
>>> pkg\_profile-8a808a6967b79da66deacfe508b26d398a69518f  
>>> puerkitobio\_purell-d69616f51cdfcd7514d6a380847a152dfc2a749d  
>>> racksec\_srslog-a974ba6f7fb527d2ddc73ee9c05d3e2ccc0af0dc  
>>> rs/cors-8dd4211afb5d08dbb39a533b9bb9e4b486351df6  
>>> ryanuber\_go-glob-256dc444b735e061061cf46c809487313d5b0065  
>>> sirupsen\_logrus-d26492970760ca5d33129d2d799e34be5c4782eb  
>>> smartystreets\_assertions-287b4346dc4e71a038c346375a9d572453bc469b  
>>> smartystreets\_assertions\_internal\_oglematchers-287b4346dc4e71a038c346375a9d572453bc469b  
>>> smartystreets\_assertions\_internal\_oglemock-287b4346dc4e71a038c346375a9d572453bc469b  
>>> smartystreets\_assertions\_internal\_ogletest-287b4346dc4e71a038c346375a9d572453bc469b  
>>> smartystreets\_assertions\_internal\_reqtrace-287b4346dc4e71a038c346375a9d572453bc469b  
>>> stretchr\_objx-1a9d0bb9f541897e62256577b352fdbcf1fb4fd94  
>>> tomb\_v1-dd632973f1e7218eb1089048e0798ec9ae7dceb8  
>>> tylerb/graceful.v1-4654dfbb6ad53cb5e27f37d99b02e16c1872fbbb  
>>> tylerb\_graceful-d7d7a205e779a4738d38eda0671fff8bfc965f14  
>>> ugorji\_go\_codec-708a42d246822952f38190a8d8c4e6b16a0e600c  
>>> urfave/negroni-ccc4a14984828dcb944e6f17fa4a967b18624f2b  
>>> urfave\_cli\_v1-0bdeddeeb0f650497d603c4ad7b20cfe685682f6  
>>> x\_crypto\_acme-728b753d0135da6801d45a38e6f43ff55779c5c2  
>>> x\_crypto\_curve25519-728b753d0135da6801d45a38e6f43ff55779c5c2  
>>> x\_crypto\_ed25519-728b753d0135da6801d45a38e6f43ff55779c5c2  
>>> x\_crypto\_nacl\_secretbox-728b753d0135da6801d45a38e6f43ff55779c5c2  
>>> x\_crypto\_poly1305-728b753d0135da6801d45a38e6f43ff55779c5c2  
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>>> x\_crypto\_ssh-728b753d0135da6801d45a38e6f43ff55779c5c2  
>>> x\_net\_context-a6577fac2d73be281a500b310739095313165611  
>>> x\_net\_http2-a6577fac2d73be281a500b310739095313165611  
>>> x\_net\_idna-a6577fac2d73be281a500b310739095313165611  
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>>> x\_net\_trace-a6577fac2d73be281a500b310739095313165611  
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>>> x\_oauth2-1611bb46e67abc64a71ecc5c3ae67f1cbbc2b921  
>>> x\_sync\_singleflight-5a06fca2c336a4b2b2fcb45702e8c47621b2aa2c  
>>> x\_sys\_unix-99f16d856c9836c42d24e7ab64ea72916925fa97  
>>> x\_sys\_windows-99f16d856c9836c42d24e7ab64ea72916925fa97  
>>> x\_text\_internal-f28f36722d5ef2f9655ad3de1f248e3e52ad5ebd  
>>> x\_text\_language-f28f36722d5ef2f9655ad3de1f248e3e52ad5ebd  
>>> x\_text\_message-f28f36722d5ef2f9655ad3de1f248e3e52ad5ebd  
>>> x\_tools\_go\_ast\_astutil-381149a2d6e5d8f319ccf04bfefc71e03a78b868

>>> x\_tools\_go\_buildutil-381149a2d6e5d8f319ccf04bfefc71e03a78b868  
>>> x\_tools\_go\_gcexportdata-381149a2d6e5d8f319ccf04bfefc71e03a78b868  
>>> x\_tools\_go\_gcimporter15-381149a2d6e5d8f319ccf04bfefc71e03a78b868  
>>> x\_tools\_go\_loader-381149a2d6e5d8f319ccf04bfefc71e03a78b868  
>>> x\_tools\_imports-381149a2d6e5d8f319ccf04bfefc71e03a78b868  
>>> zenazn/goji-c05078ca81941f8e801bba3ddc0e6b86b7fdc893

### SECTION 3: Mozilla Public License, V2.0

>>> d2g\_dhcp4client-master  
>>> hashicorp\_go-cleanhttp-875fb671b3ddc66f8e2f0acc33829c8cb989a38d  
>>> hashicorp\_memberlist-cef12ad58224d55cf26caa9e3d239c2fcb3432a2

## PART 2. VIRTUAL APPLIANCE: OPERATING SYSTEM LAYER

### SECTION 1: Academic Free License, V2.1

>>> dbus-1.11.12-1.ph2

### SECTION 2: Apache License, V2.0

>>> photon-release-2.0-2.ph2

### SECTION 3: BSD-STYLE, MIT-STYLE, OR SIMILAR STYLE LICENSES

>>> bzip2-1.0.6-8.ph2  
>>> curl-7.59.0-4.ph2  
>>> expat-2.2.4-1.ph2  
>>> iputils-20151218-4.ph2  
>>> krb5-1.16-2.ph2  
>>> libarchive-3.3.1-2.ph2  
>>> libcap-2.25-7.ph2  
>>> libdb-5.3.28-1.ph2  
>>> libffi-3.2.1-5.ph2  
>>> libsolv-0.6.26-3.ph2  
>>> libssh2-1.8.0-1.ph2  
>>> libtirpc-1.0.1-8.ph2  
>>> linux-pam-1.3.0-1.ph2  
>>> lsof-4.89-2.ph2  
>>> ncurses-6.0-14.ph2  
>>> openssh-7.5p1-11.ph2  
>>> openssl-1.0.2q-1.ph2  
>>> pcre-8.41-1.ph2

>>> popt-1.16-5.ph2  
>>> shadow-4.2.1-16.ph2  
>>> sqlite-3.22.0-3.ph2  
>>> sudo-1.8.20p2-5.ph2  
>>> vim-8.0.0533-6.ph2  
>>> xz-5.2.3-2.ph2  
>>> zlib-1.2.11-1.ph2

#### SECTION 4: GNU General Public License, V2.0

>>> e2fsprogs-1.43.4-2.ph2  
>>> gcc-6.3.0-7.ph2  
>>> iproute2-4.10.0-3.ph2  
>>> iptables-1.6.1-4.ph2  
>>> linux-esx-4.9.154-1.ph2  
>>> logrotate-3.11.0-3.ph2  
>>> mingetty-1.08-2.ph2  
>>> net-tools-1.60-11.ph2  
>>> procps-ng-3.3.15-2.ph2  
>>> rpm-4.13.0.2-1.ph2  
>>> tdnf-1.2.3-6.ph2  
>>> util-linux-2.32-1.ph2

#### SECTION 5: GNU General Public License, V3.0

>>> bash-4.4.12-3.ph2  
>>> coreutils-8.27-3.ph2  
>>> elfutils-0.169-3.ph2  
>>> grep-3.0-4.ph2  
>>> gzip-1.8-1.ph2  
>>> haveged-1.9.1-4.ph2  
>>> readline-7.0-2.ph2

#### SECTION 6: GNU Lesser General Public License, V2.1

>>> cracklib-2.9.6-8.ph2  
>>> glibc-2.26-13.ph2  
>>> hawkey-2017.1-6.ph2  
>>> kmod-24-3.ph2  
>>> libgcrypt-1.8.1-2.ph2  
>>> libgpg-error-1.27-1.ph2  
>>> systemd-233-18.ph2

#### SECTION 7: GNU Lesser General Public License, V3.0

>>> gmp-6.1.2-2.ph2

#### SECTION 8: GNU Library General Public License, V2.0

>>> glib-2.52.1-3.ph2

#### SECTION 9: Mozilla Public License, V2.0

>>> ca-certificates-20180919-1.ph2

>>> nspr-4.15-1.ph2

>>> nss-3.31.1-1.ph2

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```
>>> aws_aws-sdk-go_aws-master
```

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>>> cpuguy83\_go-md2man\_md2man-a65d4d2de4d5f7c74868dfa9b202a3c8be315aaa

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version 0.1

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>>> gogo\_protobuf\_gogoproto-6a92c871a8f5333cf106b2cdf937567208dbb2b7

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Protocol Buffers for Go with Gadgets

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d7d7a205e779a4738d38eda0671fff8bfc965f14\limit_listen.go
```

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```
>>> ugorji_go_codec-708a42d246822952f38190a8d8c4e6b16a0e600c
```

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>>> urfave/negroni-ccc4a14984828dcb944e6f17fa4a967b18624f2b

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>>> urfave\_cli\_v1-0bdeedeeb0f650497d603c4ad7b20cfe685682f6

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>>> x\_crypto\_acme-728b753d0135da6801d45a38e6f43ff55779c5c2

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crypto-728b753d0135da6801d45a38e6f43ff55779c5c2.tar.gz\crypto-728b753d0135da6801d45a38e6f43ff55779c5c2.tar\crypto-728b753d0135da6801d45a38e6f43ff55779c5c2\pkcs12\internal\rc2\rc2.go
```

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```
>>> x_crypto_curve25519-728b753d0135da6801d45a38e6f43ff55779c5c2
```

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crypto-728b753d0135da6801d45a38e6f43ff55779c5c2.tar.gz|crypto-728b753d0135da6801d45a38e6f43ff55779c5c2.tar|crypto-728b753d0135da6801d45a38e6f43ff55779c5c2\pkcs12\internal\rc2\rc2.go
```

<https://www.ietf.org/rfc/rfc2268.txt>  
<http://people.csail.mit.edu/rivest/pubs/KRRR98.pdf>

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```
>>> x_crypto_ed25519-728b753d0135da6801d45a38e6f43ff55779c5c2
```

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See <http://libtom.org/?page=features&newsitems=5&whatfile=crypt>.

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It was heavily inspired by the go blowfish package.

>>> x\_crypto\_nacl\_secretbox-728b753d0135da6801d45a38e6f43ff55779c5c2

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>>> x\_net\_context-a6577fac2d73be281a500b310739095313165611

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381149a2d6e5d8f319ccf04bfefc71e03a78b868.tar\tools-  
381149a2d6e5d8f319ccf04bfefc71e03a78b868\cmd\present\templates\dir.tmpl
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+build appengine

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It is designed to run only on the instance of godoc that serves golang.org.

package short

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lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and

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

include/iprop\_hdr.h

kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c

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This is a plain C recursive-descent translation of an old public-domain YACC grammar that has been used for parsing dates in very many open-source projects.

Since the original authors were generous enough to donate their work to the public domain, I feel compelled to match their generosity.

Tim Kientzle, February 2009.

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For the verification of the code, its output sequence file  
mt19937int.out is attached (2001/4/2)

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rijndael-alg-fst.c

@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>

@author Paulo Barreto <paulo.barreto@terra.com.br>

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SHA-1 in C

By Steve Reid <sreid@sea-to-sky.net>

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Bison implementation for Yacc-like parsers in C

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>>> lsof-4.89-2.ph2

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>>> ncurses-6.0-14.ph2

Upstream source <http://invisible-island.net/ncurses/ncurses-examples.html>

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

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```
-- vile: txtmode file-encoding=utf-8
```

```
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```

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- The make-ssh-known-hosts script is no longer included
-

TSS has been removed

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## THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel  
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mkinstalldirs --- make directory hierarchy

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chkconfig: 2345 11 89  
description: sets up CBQ-based traffic control

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IPv6 Hop Limit Target module

Maciej Soltysiak <solt@dns.toxicfilms.tv>

Based on HW's ttl target

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Reasonably optimised generic C-code for memcpy on Microblaze

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linux-esx-4.9.154-1.ph2.src.rpm/linux-esx-4.9.154-1.ph2.src.cpio/linux-4.9.154.tar.xz/linux-4.9.154.tar/arch/mips/include/asm/netlogic/xlp-hal/bridge.h
```

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linux-esx-4.9.154-1.ph2.src.rpm/linux-esx-4.9.154-1.ph2.src.cpio/linux-4.9.154.tar.xz/linux-4.9.154.tar/arch/mips\sgi-ip22\ip22-eisa.c
```

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```
linux-esx-4.9.154-1.ph2.src.rpm/linux-esx-4.9.154-1.ph2.src.cpio/linux-4.9.154.tar.xz/linux-4.9.154.tar/linux-4.9.97/arch\parisc\lib\memset.c
```

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linux-esx-4.9.154-1.ph2.src.rpm/linux-esx-4.9.154-1.ph2.src.cpio/linux-4.9.154.tar.xz/linux-4.9.154.tar/Documentation/DocBook/libata.tmpl
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linux-esx-4.9.154-1.ph2.src.rpm/linux-esx-4.9.154-1.ph2.src.cpio/linux-4.9.154.tar.xz/linux-4.9.154.tar/Documentation/PCI/pci.txt
```

A more complete resource is the third edition of "Linux Device Drivers" by Jonathan Corbet, Alessandro Rubini, and Greg Kroah-Hartman. LDD3 is available for free (under Creative Commons License) from:

<http://lwn.net/Kernel/LDD3/>

However, keep in mind that all documents are subject to "bit rot". Refer to the source code if things are not working as described here.

Please send questions/comments/patches about Linux PCI API to the "Linux PCI" <linux-pci@atrey.karlin.mff.cuni.cz> mailing list.

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Written by Andrew Lutomirski, 2011-2014.

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mkinstalldirs --- make directory hierarchy

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pmap.c - print process memory mapping

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```

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author: Noah Friedman <[friedman@prep.ai.mit.edu](mailto:friedman@prep.ai.mit.edu)>

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Based on scriptreplay.pl by Joey Hess <joe@kitten.net>

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line - read one line



Gunnar Ritter, Freiburg i. Br., Germany, December 2000.

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uuidparse.c --- Interpret uuid encoded information. This program violates the UUID abstraction barrier by reaching into the guts of a UUID.

Based on libuuid/src/uuid\_time.c  
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From Simon Josefsson  
-- derivated from coreutils m4/warnings.m4

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setpwnam.c  
-- edit an entry in a password database.

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Edited 11/10/96 (DD/MM/YY ;- ) by Nicolai Langfeldt (janl@math.uio.no) to read /etc/passwd directly so that passwd, chsh and chfn can work on machines that run NIS (previously YP). Changes will not be made to usernames starting with +.

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Usage:

- 1) get a struct passwd from getpwnam().  
You should assume a struct passwd has an infinite number of fields, so you should not try to create one from scratch.
- 2) edit the fields you want to edit.
- 3) call setpwnam() with the edited struct passwd.

A `_normal user_` program should never directly manipulate `etc/passwd` but /use `getpwnam()` and (family, as well as) `setpwnam()`.

But,

setpwnam was made to `_edit_` the password file. For use by `chfn`, `chsh` and `passwd`. `_I_ _HAVE_` to read and write `/etc/passwd` directly. Let those who say nay be forever silent and think about how `getpwnam` (and family) works on a machine running YP.

Added checks for failure of `malloc()` and removed error reporting to `stderr`, this is a library function and should not print on the screen, but return appropriate error codes.

27-Jan-97 - poe@daimi.aau.dk

Thanks to "two guys named Ian".

\$Author: poer \$

\$Revision: 1.13 \$

\$Date: 1997/06/23 08:26:29 \$

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Python bindings for the `libmount` library.

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Bison implementation for Yacc-like parsers in C

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error.c

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A Bison parser, made by GNU Bison 3.0.4.

Bison interface for Yacc-like parsers in C

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J.Otto Tennant <jot@cray.com> contributed the Cray support.

There  
are some preprocessor constants that can  
be defined when compiling for your specific system, for  
improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep  
track of all alloca-allocated blocks, and reclaim any  
that are found to be deeper in the stack than the current  
invocation. This heuristic does not reclaim storage as  
soon as it becomes invalid, but it will do so eventually.

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alloca.c -- allocate automatically reclaimed memory  
(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function, which is used to allocate space off the run-time stack so that it is automatically reclaimed upon procedure exit, was inspired by discussions with J. Q. Johnson of Cornell.

J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

As a special case, alloca(0) reclaims storage without allocating any. It is a good idea to use alloca(0) in your main control loop, etc. to force garbage collection.

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DRBG: Deterministic

Random Bits Generator

Based on NIST Recommended DRBG from NIST SP800-90A with the following properties:

CTR DRBG with DF with AES-128, AES-192, AES-256 cores

Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores

HMAC DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores

with and without prediction resistance

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Factoring with Pollard's rho method.

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Test Socket Type

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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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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the

Library" means either the Library or any derivative work under copyright

law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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

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, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for

that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright

notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified

in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for

reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

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.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if

written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this

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DAMAGES.

## END OF TERMS AND CONDITIONS

### How to Apply These Terms to Your New Libraries

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

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

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

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

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

That's all there is to it!

----- SECTION 5: GNU Lesser General Public License, V2.1 -----

## GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts  
as the successor of the GNU Library Public License, version 2, hence  
the version number 2.1.]

### Preamble

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

This license, the Lesser General Public License, applies to some  
specially designated software packages--typically libraries--of the  
Free Software Foundation and other authors who decide to use it. You  
can use it too, but we suggest you first think carefully about whether  
this license or the ordinary General Public License is the better  
strategy to use in any particular case, based on the explanations below.

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 "Lesser" General Public License because it does 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.

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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, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of

the Library into a program that is not a library.

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

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

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

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

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

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

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

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SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007

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means to provide reliability and stability for the user community. They therefore concern themselves with the case that a Derived Work is intended to be used as a (compatible or incompatible) replacement of the original Work. If this is not the case (e.g., if a few lines of code are reused for a completely different task), then clauses 6b and 6d shall not apply.

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package command

```
import (  
    "fmt"  
    "strings"  
  
    "github.com/mitchellh/cli"  
    "github.com/posener/complete"  
)  
  
var (  
    _ cli.Command          = (*LicenseGetCommand)(nil)  
    _ cli.CommandAutocomplete = (*LicenseGetCommand)(nil)  
)  
  
type LicenseGetCommand struct {  
    *BaseCommand  
  
    signed bool  
}  
  
func (c *LicenseGetCommand) Synopsis() string {  
    return "Get an existing license"  
}  
  
func (c *LicenseGetCommand) Help() string {  
    helpText := `  
Usage: vault license get [options]  
  
Get the currently installed license, if any:  
  
    $ vault license get  
  
Get the currently installed license, if any, and output its contents as a signed blob:  
  
    $ vault license get -signed  
  
` + c.Flags().Help()
```

```

return strings.TrimSpace(helpText)
}

func (c *LicenseGetCommand) Flags() *FlagSets {
set := c.flagSet(FlagSetHTTP | FlagSetOutputFormat)

f := set.NewFlagSet("License Options")
f.BoolVar(&BoolVar{
Name: "signed",
Target: &c.signed,
Usage: "Whether to return a signed blob from the API.",
})

return
set
}

func (c *LicenseGetCommand) AutocompleteArgs() complete.Predictor {
return complete.PredictNothing
}

func (c *LicenseGetCommand) AutocompleteFlags() complete.Flags {
return c.Flags().Completions()
}

func (c *LicenseGetCommand) Run(args []string) int {
f := c.Flags()

if err := f.Parse(args); err != nil {
c.UI.Error(err.Error())
return 1
}

args = f.Args()
if len(args) > 0 {
c.UI.Error(fmt.Sprintf("Too many arguments (expected 0, got %d)", len(args)))
return 1
}

client, err := c.Client()
if err != nil {
c.UI.Error(err.Error())
return 2
}

var path string
if c.signed {

```

```

path = "sys/license/signed"
} else {
path = "sys/license"
}

secret, err := client.Logical().Read(path)
if err != nil {
c.UI.Error(fmt.Sprintf("Error retrieving license: %s", err))
return 2
}

if secret == nil {
c.UI.Error("License not found")
return 2
}

if c.signed {
blob := secret.Data["signed"].(string)
if blob == "" {
c.UI.Output("License not found or
using a temporary license.")
return 2
} else {
c.UI.Output(blob)
return 0
}
} else {
return OutputSecret(c.UI, secret)
}
}

```

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Portions of the client are based on code at:  
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# When adding J Random Contributor's name to this file,
# either J's name or J's organization's name should be
# added to the AUTHORS file, depending on whether the
# individual or corporate
# CLA was used.
```

```
# Names should be added to this file like so:
```

```
# Name <email address>
```

```
# Please keep the list sorted.
```

```
Damian Gryski <dgryski@gmail.com>
```

```
Jan Mercl <0xjnm@gmail.com>
```

```
Jonathan Swinney <jswinney@amazon.com>
```

```
Kai Backman <kaib@golang.org>
```

```
Klaus Post <klauspost@gmail.com>
```

Marc-Antoine Ruel <maruel@chromium.org>

Nigel Tao <nigeltao@golang.org>

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package license

```
// Features is a bitmask of feature flags  
type Features uint
```

```
const FeatureNone Features = 0
```



```
func (f Features) HasFeature(flag Features) bool {  
    return false  
}  
MIT License
```

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```
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    <h1 class="title is-3">License</h1>
  </p.levelLeft>
</PageHeader>
<MessageError @model={{ model }} />
{{#if isTemporary}}
  <section class="box is-sideless is-fullwidth">
    <AlertBanner
      @type="warning"
      @message="Your temporary license expires in {{ date-from-now expirationTime }} and your vault will seal.
Please enter a valid license below."
      @class="license-warning"
      data-test-cluster-status
      data-test-warning-text
    />
    <span class="title is-5" data-test-temp-license>Temporary license</span>
    <form {{action "saveModel" text on="submit"}}>
      <div class="box is-shadowless is-fullwidth is-marginless">
        <div class="field">
          <label for="license-id" class="is-label">License</label>
          <div class="control">
            <Input @id="license-id" @value={{ text }} @autocomplete="off" class="input" data-test-text-input="data-
test-text-input" />
          </div>
        </div>
      </div>
      <div class="field">
        <div class="control">
          <button type="submit" class="button is-primary" data-test-save-button>Save</button>
        </div>
      </div>
    </form>
  </section>
{{else}}
  <section class="box is-sideless is-fullwidth">
    <span class="title is-5">Details</span>
    {{#if showForm}}
      <form {{action "saveModel" text on="submit"}}>
```

```

<div class="field">
  <label for="license-id" class="is-label">License</label>
  <div class="control">
    <Input @id="license-id" @value={{text}} @autocomplete="off" class="input" data-test-text-input="data-
test-text-input" />
  </div>
</div>
<div class="field is-grouped">
  <div class="control">
    <button type="submit" class="button is-primary" data-test-save-button>Save</button>
  </div>
  <div class="control">
    <button type="button" {{action "toggleForm"}} class="button" data-test-cancel-button>Cancel</button>
  </div>
</div>
</div>
</div>
</form>
{{else}}
<div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
  <InfoTableRow @label="License ID" @value={{licenseId}} />
  <InfoTableRow @label="Valid from" @value={{startTime}}>
    {{date-format startTime 'MMM dd, yyyy hh:mm:ss a'}} to {{date-format expirationTime 'MMM dd, yyyy
hh:mm:ss a'}}
  </InfoTableRow>
</div>
<div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
  <div class="control">
    <button type="button" {{action "toggleForm"}} class="button" data-test-enter-button>Enter new
license</button>
  </div>
</div>
{{/if}}
</section>
{{/if}}
<section class="box is-sideless is-marginless is-shadowless is-fullwidth">
  <span class="title is-5">Features</span>
  <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
    {{#each featuresInfo as |info|}}
      <InfoTableRow @label={{info.name}}
@value={{if info.active "Active" "Not Active"}} @data-test-feature-row="data-test-feature-row">
        {{#if info.active}}
          <Icon
            @glyph="check-circle-outline"
            @size="1"
            class="icon-true"
            aria-hidden="true"
          /><span data-test-feature-status>Active {{#if info.count}}&mdash;
            {{info.count}} standby nodes allotted{{/if}}</span>
        {{/if}}
    {{/each}}
  </div>
</section>

```

```
    {{else}}
    <Icon
      @glyph="cancel-circle-outline"
      @size="1"
      class="icon-false"
      aria-hidden="true"
    /><span data-test-feature-status>Not Active</span>
  {{/if}}
</InfoTableRow>
{{/each}}
</div>
</section>
```

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mgo - MongoDB driver for Go

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Paul Borman <borman@google.com>

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theory

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=====

Portions of the client are based on code at:

<https://github.com/google/go-github/> and

<https://github.com/digitalocean/godo>

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package api

```
import (  
    "io/ioutil"  
    "strings"  
    "time"  
)
```

```
type License struct {  
    // The unique identifier of the license  
    LicenseID string `json:"license_id"`  
  
    // The customer ID associated with the license  
    CustomerID string `json:"customer_id"`  
  
    // If set, an identifier that should be used to lock the license to a  
    // particular site, cluster, etc.  
    InstallationID string `json:"installation_id"`  
  
    // The time at which the license was issued  
    IssueTime time.Time `json:"issue_time"`  
  
    // The time at which the license starts being valid  
    StartTime time.Time `json:"start_time"`  
  
    // The time after which the license expires  
    ExpirationTime time.Time `json:"expiration_time"``
```

```

// The time at which the license ceases to function and can
// no longer be used in any capacity
TerminationTime time.Time `json:"termination_time"`

// The product the license is valid for
Product string `json:"product"`

// License Specific Flags
Flags map[string]interface{} `json:"flags"`

// List of features
enabled by the license
Features []string `json:"features"`
}

type LicenseReply struct {
    Valid bool
    License *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer resp.Body.Close()

    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }

    return string(data), nil
}

```

```

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var
    reply LicenseReply
    r := op.c.NewRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }

    return &reply, nil
}

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.NewRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }

    return &reply, nil
}
// +build go1.10

package pq

import (
    "context"
    "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used

```

```

// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
    return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
// on it.
type NoticeHandlerConnector
struct {
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and setting the notice

```

```

//
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error) *NoticeHandlerConnector {
if c, ok := c.(*NoticeHandlerConnector); ok {
    c.noticeHandler = handler
    return c
}
return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
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// license that can be found in the LICENSE file.

package github

import (
    "context"
    "fmt"
)

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
// GitHub API docs: https://developer.github.com/v3/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
    Name *string `json:"name,omitempty"`
    Path *string `json:"path,omitempty"`

    SHA      *string `json:"sha,omitempty"`
    Size     *int    `json:"size,omitempty"`
    URL      *string `json:"url,omitempty"`
    HTMLURL  *string `json:"html_url,omitempty"`
    GitURL   *string `json:"git_url,omitempty"`
    DownloadURL *string `json:"download_url,omitempty"`
    Type     *string `json:"type,omitempty"`
    Content  *string `json:"content,omitempty"`
    Encoding *string `json:"encoding,omitempty"`
    License

```

```

    *License `json:"license,omitempty"`
}

func (l RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.
type License struct {
    Key *string `json:"key,omitempty"`
    Name *string `json:"name,omitempty"`
    URL *string `json:"url,omitempty"`

    SPDXID *string `json:"spdx_id,omitempty"`
    HTMLURL *string `json:"html_url,omitempty"`
    Featured *bool `json:"featured,omitempty"`
    Description *string `json:"description,omitempty"`
    Implementation *string `json:"implementation,omitempty"`
    Permissions *[]string `json:"permissions,omitempty"`
    Conditions *[]string `json:"conditions,omitempty"`
    Limitations *[]string `json:"limitations,omitempty"`
    Body *string `json:"body,omitempty"`
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s
*LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }

    var licenses []*License
    resp, err := s.client.Do(ctx, req, &licenses)
    if err != nil {
        return nil, resp, err
    }

    return licenses, resp, nil
}

// Get extended metadata for one license.

```

```
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)

    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    license := new(License)
    resp, err := s.client.Do(ctx, req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, nil
}
```

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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  
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lib/libgss/g\_imp\_sec\_context.c  
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lib/libgss/g\_unseal.c  
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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lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

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

include/iprop\_hdr.h

kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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procfs provides functions to retrieve system, kernel and process

metrics from the pseudo-filesystem proc.

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# 1.848 cespare-xxhash v2.1.0

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# 1.859 go-openapi-spec v0.20.3

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package spec

import (
    "encoding/json"
    "testing"

    "github.com/stretchr/testify/assert"
)

var license = License{
    LicenseProps: LicenseProps{Name: "the name", URL: "the url"},
    VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}}

const licenseJSON = `{
    "name": "the name",
    "url": "the url",
    "x-license": "custom term"
}`

func TestIntegrationLicense(t
    *testing.T) {
```

```

// const licenseYAML = "name: the name\nurl: the url\n"

b, err := json.MarshalIndent(license, "", "\t")
if assert.NoError(t, err) {
    assert.Equal(t, licenseJSON, string(b))
}

actual := License{}
err = json.Unmarshal([]byte(licenseJSON), &actual)
if assert.NoError(t, err) {
    assert.EqualValues(t, license, actual)
}
}

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package spec

import (
    "encoding/json"

    "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

```

```

// UnmarshalJSON
hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
return err
}
return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
b1, err := json.Marshal(l.LicenseProps)
if err != nil {
return nil, err
}
b2, err := json.Marshal(l.VendorExtensible)
if err != nil {
return nil, err
}
return swag.ConcatJSON(b1, b2), nil
}

```

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```
// +build go1.10
```

```
package pq
```

```
import (  
    "context"  
    "database/sql/driver"  
)
```

```
// NoticeHandler returns the notice handler on the given connection, if any. A  
// runtime panic occurs if c is not a pq connection. This is rarely used  
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
```

```

func NoticeHandler(c driver.Conn) func(*Error) {
    return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
// on it.
type NoticeHandlerConnector
struct {
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and setting the notice
//

```

```
handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
        return c
    }
    return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

## 1.863 atomic 1.6.0

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## 1.864 yaml 2.4.0

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package spec

import (
    "encoding/json"
    "testing"

    "github.com/stretchr/testify/assert"
)

var license = License{
    LicenseProps: LicenseProps{Name: "the name", URL: "the url"},
    VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}}

const licenseJSON = `{
    "name": "the name",
    "url": "the url",
    "x-license": "custom term"
}`

func TestIntegrationLicense(t
```

```

*testing.T) {

// const licenseYAML = "name: the name\nurl: the url\n"

b, err := json.MarshalIndent(license, "", "\t")
if assert.NoError(t, err) {
    assert.Equal(t, licenseJSON, string(b))
}

actual := License{}
err = json.Unmarshal([]byte(licenseJSON), &actual)
if assert.NoError(t, err) {
    assert.EqualValues(t, license, actual)
}
}

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package spec

import (
    "encoding/json"

    "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
    Name string `json:"name,omitempty"`

```

```

URL string `json:"url,omitempty"`
}

// UnmarshalJSON
hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
return err
}
return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
b1, err := json.Marshal(l.LicenseProps)
if err != nil {
return nil, err
}
b2, err := json.Marshal(l.VendorExtensible)
if err != nil {
return nil, err
}
return swag.ConcatJSON(b1, b2), nil
}

```

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## 1.866 watermill-sql 1.3.4

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# 1.869 backoff v3.0.0

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## 2019112232945-16388991a334

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* /opt/cola/permits/1157317213_1619537054.99/0/classgraph-4-8-65-sources-
jar/nonapi/io/github/classgraph/fileslice/ArraySlice.java
* /opt/cola/permits/1157317213_1619537054.99/0/classgraph-4-8-65-sources-
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jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessFileReader.java
* /opt/cola/permits/1157317213_1619537054.99/0/classgraph-4-8-65-sources-
jar/nonapi/io/github/classgraph/fileslice/reader/RandomAccessArrayReader.java
* /opt/cola/permits/1157317213_1619537054.99/0/classgraph-4-8-65-sources-
jar/nonapi/io/github/classgraph/fileslice/Slice.java
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\* Author: Luke Hutchison (luke.hutch@gmail.com)

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* /opt/cola/permits/1157317213_1619537054.99/0/classgraph-4-8-65-sources-jar/io/github/classgraph/InfoList.java
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* /opt/cola/permits/1157317213_1619537054.99/0/classgraph-4-8-65-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/EquinoxClassLoaderHandler.java
* /opt/cola/permits/1157317213_1619537054.99/0/classgraph-4-8-65-sources-
jar/nonapi/io/github/classgraph/fastzipfilereader/PhysicalZipFile.java
*
/opt/cola/permits/1157317213_1619537054.99/0/classgraph-4-8-65-sources-
jar/nonapi/io/github/classgraph/json/JSONReference.java
* /opt/cola/permits/1157317213_1619537054.99/0/classgraph-4-8-65-sources-
jar/nonapi/io/github/classgraph/json/FieldTypeInfo.java
* /opt/cola/permits/1157317213_1619537054.99/0/classgraph-4-8-65-sources-
jar/nonapi/io/github/classgraph/classloaderhandler/JPMSCClassLoaderHandler.java
* /opt/cola/permits/1157317213_1619537054.99/0/classgraph-4-8-65-sources-jar/io/github/classgraph/Classfile.java

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\* /opt/cola/permits/1157317213\_1619537054.99/0/classgraph-4-8-65-sources-jar/nonapi/io/github/classgraph/concurrency/SingletonMap.java  
 \* /opt/cola/permits/1157317213\_1619537054.99/0/classgraph-4-8-65-sources-jar/nonapi/io/github/classgraph/classpath/SystemJarFinder.java  
 \* /opt/cola/permits/1157317213\_1619537054.99/0/classgraph-4-8-65-sources-jar/nonapi/io/github/classgraph/scanspec/WhiteBlackList.java  
 \* /opt/cola/permits/1157317213\_1619537054.99/0/classgraph-4-8-65-sources-jar/io/github/classgraph/ClassInfoList.java  
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 /opt/cola/permits/1157317213\_1619537054.99/0/classgraph-4-8-65-sources-jar/io/github/classgraph/ModuleRef.java  
 \* /opt/cola/permits/1157317213\_1619537054.99/0/classgraph-4-8-65-sources-jar/io/github/classgraph/AnnotationParameterValue.java  
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 \* /opt/cola/permits/1157317213\_1619537054.99/0/classgraph-4-8-65-sources-jar/nonapi/io/github/classgraph/concurrency/WorkQueue.java  
 \* /opt/cola/permits/1157317213\_1619537054.99/0/classgraph-4-8-65-sources-jar/nonapi/io/github/classgraph/classloaderhandler/EquinoxContextFinderClassLoaderHandler.java  
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 /opt/cola/permits/1157317213\_1619537054.99/0/classgraph-4-8-65-sources-jar/io/github/classgraph/PackageInfo.java  
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\* /opt/cola/permits/1157317213\_1619537054.99/0/classgraph-4-8-65-sources-jar/nonapi/io/github/classgraph/classpath/ClassLoaderOrder.java  
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\* /opt/cola/permits/1157317213\_1619537054.99/0/classgraph-4-8-65-sources-  
jar/io/github/classgraph/ClassGraphException.java

\* /opt/cola/permits/1157317213\_1619537054.99/0/classgraph-4-8-65-sources-jar/io/github/classgraph/AnnotationInfoList.java  
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\* /opt/cola/permits/1157317213\_1619537054.99/0/classgraph-4-8-65-sources-jar/nonapi/io/github/classgraph/classpath/ClasspathOrder.java  
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jar/io/github/classgraph/FieldInfo.java  
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\*

\* Author: Johno Crawford (johno@sulake.com)

\*

\* Hosted at: <https://github.com/classgraph/classgraph>

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jar/nonapi/io/github/classgraph/concurrency/AutoCloseableExecutorService.java  
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\* Author: Harith Elrufaie

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\* Hosted at: <https://github.com/classgraph/classgraph>

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\*

\* Author: @jacobg on GitHub

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\* Hosted at: <https://github.com/classgraph/classgraph>

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\*

\* Author: Michael J. Simons

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\* Hosted at: <https://github.com/classgraph/classgraph>

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\* Author: Luke Hutchison

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Found in path(s):

```
*/opt/cola/permits/1158095139_1619705622.03/0/builder-annotations-0-21-0-sources-
jar/io/sundr/builder/annotations/IgnoreDescendants.java
*/opt/cola/permits/1158095139_1619705622.03/0/builder-annotations-0-21-0-sources-
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```
* /opt/cola/permits/1158095139_1619705622.03/0/builder-annotations-0-21-0-sources-
jar/io/sundr/builder/annotations/Pojo.java
* /opt/cola/permits/1158095139_1619705622.03/0/builder-annotations-0-21-0-sources-
jar/io/sundr/builder/internal/visitors/InitEnricher.java
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```
io.sundr.builder.internal.processor.BuildableProcessor
io.sundr.builder.internal.processor.ExternalBuildableProcessor
```

Found in path(s):

```
* /opt/cola/permits/1158095139_1619705622.03/0/builder-annotations-0-21-0-sources-jar/META-
```



INF/services/javax.annotation.processing.Processor

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\* /opt/cola/permits/1158095139\_1619705622.03/0/builder-annotations-0-21-0-sources-jar/io/sundr/builder/internal/BuildableRepository.java

\* /opt/cola/permits/1158095139\_1619705622.03/0/builder-annotations-0-21-0-sources-jar/io/sundr/builder/internal/BuilderContext.java

\*

/opt/cola/permits/1158095139\_1619705622.03/0/builder-annotations-0-21-0-sources-jar/io/sundr/builder/annotations/BuildableReference.java

\* /opt/cola/permits/1158095139\_1619705622.03/0/builder-annotations-0-21-0-sources-jar/io/sundr/builder/annotations/Buildable.java

\* /opt/cola/permits/1158095139\_1619705622.03/0/builder-annotations-0-21-0-sources-jar/io/sundr/builder/internal/functions/ClazzAs.java

\* /opt/cola/permits/1158095139\_1619705622.03/0/builder-annotations-0-21-0-sources-jar/io/sundr/builder/Constants.java

\* /opt/cola/permits/1158095139\_1619705622.03/0/builder-annotations-0-21-0-sources-jar/io/sundr/builder/internal/BuilderContextManager.java

\* /opt/cola/permits/1158095139\_1619705622.03/0/builder-annotations-0-21-0-sources-jar/io/sundr/builder/internal/processor/ExternalBuildableProcessor.java

\* /opt/cola/permits/1158095139\_1619705622.03/0/builder-annotations-0-21-0-sources-jar/io/sundr/builder/annotations/Inline.java

\*

/opt/cola/permits/1158095139\_1619705622.03/0/builder-annotations-0-21-0-sources-jar/io/sundr/builder/internal/processor/AbstractBuilderProcessor.java

\* /opt/cola/permits/1158095139\_1619705622.03/0/builder-annotations-0-21-0-sources-jar/io/sundr/builder/annotations/ExternalBuildables.java

\* /opt/cola/permits/1158095139\_1619705622.03/0/builder-annotations-0-21-0-sources-jar/io/sundr/builder/internal/functions/PropertyAs.java

```
* /opt/cola/permits/1158095139_1619705622.03/0/builder-annotations-0-21-0-sources-
jar/io/sundr/builder/internal/utils/BuilderUtils.java
* /opt/cola/permits/1158095139_1619705622.03/0/builder-annotations-0-21-0-sources-
jar/io/sundr/builder/internal/functions/TypeAs.java
* /opt/cola/permits/1158095139_1619705622.03/0/builder-annotations-0-21-0-sources-
jar/io/sundr/builder/internal/processor/BuildableProcessor.java
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jar/io/sundr/builder/annotations/Adapter.java
* /opt/cola/permits/1158095139_1619705622.03/0/builder-annotations-0-21-0-sources-
jar/io/sundr/builder/internal/functions/Construct.java
*
/opt/cola/permits/1158095139_1619705622.03/0/builder-annotations-0-21-0-sources-
jar/io/sundr/builder/internal/functions/ToPojo.java
* /opt/cola/permits/1158095139_1619705622.03/0/builder-annotations-0-21-0-sources-
jar/io/sundr/builder/internal/resources/ValidationUtils.java
```

## 1.919 sundr-core 0.21.0

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* /opt/cola/permits/1158097526_1619705708.07/0/sundr-core-0-21-0-sources-jar/io/sundr/Provider.java
* /opt/cola/permits/1158097526_1619705708.07/0/sundr-core-0-21-0-sources-
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\* /opt/cola/permits/1158097526\_1619705708.07/0/sundr-core-0-21-0-sources-jar/io/sundr/builder/Visitor.java  
\* /opt/cola/permits/1158097526\_1619705708.07/0/sundr-core-0-21-0-sources-jar/io/sundr/Function.java  
\*  
/opt/cola/permits/1158097526\_1619705708.07/0/sundr-core-0-21-0-sources-jar/io/sundr/builder/Fluent.java  
\* /opt/cola/permits/1158097526\_1619705708.07/0/sundr-core-0-21-0-sources-jar/io/sundr/SundrException.java  
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\* /opt/cola/permits/1158097526\_1619705708.07/0/sundr-core-0-21-0-sources-jar/io/sundr/builder/Inlineable.java  
\* /opt/cola/permits/1158097526\_1619705708.07/0/sundr-core-0-21-0-sources-jar/io/sundr/builder/VisitableBuilder.java  
\* /opt/cola/permits/1158097526\_1619705708.07/0/sundr-core-0-21-0-sources-jar/io/sundr/builder/Nested.java  
\* /opt/cola/permits/1158097526\_1619705708.07/0/sundr-core-0-21-0-sources-jar/io/sundr/builder/BaseFluent.java  
\* /opt/cola/permits/1158097526\_1619705708.07/0/sundr-core-0-21-0-sources-jar/io/sundr/builder/Editable.java  
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*/
```

Found in path(s):

```
* /opt/cola/permits/1158097526_1619705708.07/0/sundr-core-0-21-0-sources-
jar/io/sundr/builder/TypedVisitor.java
* /opt/cola/permits/1158097526_1619705708.07/0/sundr-core-0-21-0-sources-jar/io/sundr/builder/Function.java
* /opt/cola/permits/1158097526_1619705708.07/0/sundr-core-0-21-0-sources-jar/io/sundr/FunctionFactory.java
```

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Found in path(s):

```
* /opt/cola/permits/1158098973_1619705775.81/0/resourcecify-annotations-0-21-0-sources-
jar/io/sundr/resourcecify/annotations/Resourcecify.java
* /opt/cola/permits/1158098973_1619705775.81/0/resourcecify-annotations-0-21-0-sources-
jar/io/sundr/resourcecify/internal/processor/ResourcecifyProcessor.java
```

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#
```

io.sundr.resourcecify.internal.processor.ResourcecifyProcessor

Found in path(s):

```
* /opt/cola/permits/1158098973_1619705775.81/0/resourcecify-annotations-0-21-0-sources-jar/META-INF/services/javafx.annotation.processing.Processor
```

# 1.921 testify v1.7.0

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# 1.924 google-golang-org-genproto v0.0.0-20190926190326-7ee9db18f195

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package license

```
// Features is a bitmask of feature flags
```

```
type Features uint
```

```
const FeatureNone Features = 0
```

```
func (f Features) HasFeature(flag Features) bool {  
    return false  
}
```

```
otp
```

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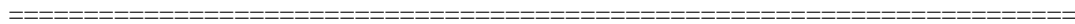
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mgo - MongoDB driver for Go

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Support for streaming Protocol Buffer messages for the Go language (golang).

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          <div class="control">
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      <div class="field">
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        </div>
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      </form>
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{{else}}
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license</button>
    </div>
  </div>
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            aria-hidden="true"
          /><span data-test-feature-status>Active {{#if info.count}}&mdash;
{{info.count}} standby nodes allotted{{/if}}</span>
        {{else}}
          <Icon
            @glyph="cancel-circle-outline"
            @size="1"
            class="icon-false"

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/><span data-test-feature-status>Not Active</span>
{{/if}}
{{/info-table-row}}
{{/each}}
</div>
</section>
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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```

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package github

import (
    "context"
    "fmt"
)

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
// GitHub API docs: https://developer.github.com/v3/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
    Name *string `json:"name,omitempty"`
    Path *string `json:"path,omitempty"`

    SHA      *string `json:"sha,omitempty"`
    Size     *int    `json:"size,omitempty"`
    URL      *string `json:"url,omitempty"`
    HTMLURL  *string `json:"html_url,omitempty"`
    GitURL   *string `json:"git_url,omitempty"`
    DownloadURL *string `json:"download_url,omitempty"`
    Type     *string `json:"type,omitempty"`
    Content  *string `json:"content,omitempty"`
    Encoding *string `json:"encoding,omitempty"`
    License  *License `json:"license,omitempty"`
}

func (l RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.
type License struct {
    Key *string `json:"key,omitempty"`
    Name *string `json:"name,omitempty"`
    URL *string `json:"url,omitempty"`

    SPDXID *string `json:"spdx_id,omitempty"`
    HTMLURL *string `json:"html_url,omitempty"`
}

```

```

Featured    *bool    `json:"featured,omitempty"`
Description *string  `json:"description,omitempty"`
Implementation *string `json:"implementation,omitempty"`
Permissions  *[]string `json:"permissions,omitempty"`
Conditions   *[]string `json:"conditions,omitempty"`
Limitations  *[]string `json:"limitations,omitempty"`
Body         *string  `json:"body,omitempty"`
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s
*LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }

    var licenses []*License
    resp, err := s.client.Do(ctx, req, &licenses)
    if err != nil {
        return nil, resp, err
    }

    return licenses, resp, nil
}

// Get extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)

    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    license := new(License)
    resp, err := s.client.Do(ctx, req, license)
    if err != nil {
        return nil, resp, err
    }
}

```

return license, resp, nil

}

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---

```
layout: "api"
page_title: "/sys/license - HTTP API"
sidebar_title: "<code>/sys/license</code>"
sidebar_current: "api-http-system-license"
description: |-
  The `"/sys/license` endpoint is used to view and update the license used in Vault.
```

---

```
# `"/sys/license`
```

```
~> **Enterprise Only** These endpoints require Vault Enterprise.
```

The `"/sys/license` endpoint is used to view and update the license used in Vault.

```
## Read License
```

This endpoint returns information about the currently installed license.

```
| Method | Path |
|:-----|:-----|
| `GET` | `"/sys/license` |
```

```
### Sample Request
```

---

```
$ curl \
```

```
--header "X-Vault-Token: ..." \  
http://127.0.0.1:8200/v1/sys/license  
---
```

### ### Sample Response

```
```json  
{  
  "data": {  
    "expiration_time": "2017-11-14T16:34:36.546753-05:00",  
    "features": [  
      "UI",  
      "HSM",  
      "Performance Replication",  
      "DR Replication"  
    ],  
    "license_id": "temporary",  
    "start_time": "2017-11-14T16:04:36.546753-05:00"  
  },  
  "warnings": [  
    "time left on license is 29m33s"  
  ]  
}
```

### ## Install License

This endpoint is used to install a license into Vault.

| Method | Path         |
|--------|--------------|
| PUT    | /sys/license |

### ### Parameters

- `text` (string: <required>) The text of the license.

#### \*DR Secondary Specific Parameters\*

- `dr\_operation\_token` (string: <required>) - DR operation token used to authorize this request.

### ### Sample Payload

```
```json  
{  
  "text": "01ABCDEFGF..."  
}
```

...

### ### Sample Request

...

```
$ curl \  
  --header "X-Vault-Token: ..." \  
  --request PUT \  
  --data @payload.json \  
  http://127.0.0.1:8200/v1/sys/license
```

...

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Packaging is done by the Debian GCC Maintainers  
<debian-gcc@lists.debian.org>, with sources obtained from:

<ftp://gcc.gnu.org/pub/gcc/releases/> (for full releases)  
<svn://gcc.gnu.org/svn/gcc/> (for prereleases)  
<ftp://sourceware.org/pub/newlib/> (for newlib)  
<git://git.savannah.gnu.org/gm2.git> (for Modula-2)

The current gcc-10 source package is taken from the SVN gcc-10-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

| Language      | Compiler package | Library package | Documentation     |
|---------------|------------------|-----------------|-------------------|
| Ada           | gnat-10          | libgnat-10      | gnat-10-doc       |
| BRIG          | gccbrig-10       | libhsail-rt0    |                   |
| C             | gcc-10           |                 | gcc-10-doc        |
| C++           | g++-10           | libstdc++6      | libstdc++6-10-doc |
| D             | gdc-10           |                 |                   |
| Fortran 95    | gfortran-10      | libgfortran5    | gfortran-10-doc   |
| Go            | gccgo-10         | libgo0          |                   |
| Objective C   | gobjc-10         | libobjc4        |                   |
| Objective C++ | gobjc++-10       |                 |                   |
| Modula-2      | gm2-10           | libgm2          |                   |

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

| Language | Sources          | Development       | Debugging         | Position-Independent |
|----------|------------------|-------------------|-------------------|----------------------|
| C++      |                  | libstdc++6-10-dev | libstdc++6-10-dbg | libstdc++6-10-pic    |
| D        | libphobos-10-dev |                   |                   |                      |

Additional packages include:

All languages:

|                   |                                     |
|-------------------|-------------------------------------|
| libgcc1,          |                                     |
| libgcc2, libgcc4  | GCC intrinsics (platform-dependent) |
| gcc-10-base       | Base files common to all compilers  |
| gcc-10-soft-float | Software floating point (ARM only)  |
| gcc-10-source     | The sources with patches            |

Ada:

libgnat-util10-dev, libgnat-util10 GNAT version library

C:

|                      |                                       |
|----------------------|---------------------------------------|
| cpp-10, cpp-10-doc   | GNU C Preprocessor                    |
| libssp0-dev, libssp0 | GCC stack smashing protection library |
| libquadmath0         | Math routines for the __float128 type |
| fixincludes          | Fix non-ANSI header files             |

C, C++ and Fortran 95:

libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library

libitm1-dev, libitm1 GNU Transactional Memory Library

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coshq.c, erfq.c, jnq.c, lgammaq.c, powq.c, roundq.c:

Changes for 128-bit \_\_float128 are

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Cephes Math Library Release 2.2: January, 1991

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gdc-10                    GNU D Compiler  
libphobos-10-dev        D standard runtime library

The D source package is made up of the following components.

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- d/\*

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The Phobos standard runtime library:



- d/phobos/\*

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\* /opt/ws\_local/PERMITS\_SQL/1082517930\_1597959663.43/0/springfox-spring-webmvc-3-0-0-sources-jar/springfox/documentation/spring/web/WebMvcPatternsRequestConditionWrapper.java  
\*  
/opt/ws\_local/PERMITS\_SQL/1082517930\_1597959663.43/0/springfox-spring-webmvc-3-0-0-sources-jar/springfox/documentation/spring/web/WebMvcRequestMappingInfoWrapper.java  
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jar/springfox/documentation/spring/web/WebFluxNameValueExpressionWrapper.java
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# 1.946 lib-pq v1.10.1

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```
// +build go1.10
```

```
package pq
```

```
import (  
    "context"  
    "database/sql/driver"  
)
```

```
// NoticeHandler returns the notice handler on the given connection, if any. A  
// runtime panic occurs if c is not a pq connection. This is rarely used  
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
```

```
func NoticeHandler(c driver.Conn) func(*Error) {  
    return c.(*conn).noticeHandler  
}
```

```
// SetNoticeHandler sets the given notice handler on the given connection. A  
// runtime panic occurs if c is not a pq connection. A nil handler may be used  
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and  
// ConnectorWithNoticeHandler instead.
```

```

//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
// on it.
type NoticeHandlerConnector
struct {
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and setting the notice
//
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {

```

```
c.noticeHandler = handler
return c
}
return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

# 1.947 goqu v9.12.0

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# 1.948 go-redis-redis v7.0.0-beta.4

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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <Cyan4973@github.com>

Source: <https://github.com/lz4/lz4>

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## 1.951 asm 2010.02.05

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ASM: a very small and fast Java bytecode manipulation framework

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\* @author  
Luke Taylor  
\* @since 3.0  
\* @deprecated Use java.util.Base64  
\*/

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jar/org/springframework/security/authentication/UsernamePasswordAuthenticationToken.java
*
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jar/org/springframework/security/access/annotation/Jsrf250MethodSecurityMetadataSource.java
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-
jar/org/springframework/security/authentication/AnonymousAuthenticationToken.java
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jar/org/springframework/security/access/annotation/Secured.java
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jar/org/springframework/security/core/session/SessionInformation.java
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\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/access/vote/AbstractAclVoter.java  
\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/access/AccessDecisionVoter.java  
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- \* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/authentication/CachingUserDetailsService.java
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- \* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/provisioning/JdbcUserDetailsManager.java
- \* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/crypto/password/LdapShaPasswordEncoder.java
- \* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/crypto/password/DelegatingPasswordEncoder.java
- \* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/crypto/password/MessageDigestPasswordEncoder.java
- \*
- /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/scheduling/DelegatingSecurityContextTaskScheduler.java
- \* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-

jar/org/springframework/security/crypto/password/Pbkdf2PasswordEncoder.java  
\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-  
jar/org/springframework/security/access/prepost/PrePostAdviceReactiveMethodInterceptor.java  
\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-  
jar/org/springframework/security/authorization/AuthorityReactiveAuthorizationManager.java  
\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-  
jar/org/springframework/security/core/Transient.java  
\*  
/opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-  
jar/org/springframework/security/core/token/KeyBasedPersistenceTokenService.java  
\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-  
jar/org/springframework/security/crypto/password/Md4PasswordEncoder.java  
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jar/org/springframework/security/crypto/encrypt/Encryptors.java  
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\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/authorization/AuthenticatedReactiveAuthorizationManager.java  
\*  
/opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/core/AuthenticatedPrincipal.java  
\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/crypto/password/PasswordEncoderUtils.java  
\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/crypto/factory/PasswordEncoderFactories.java  
\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/authentication/ReactiveAuthenticationManager.java  
\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/core/parameters/P.java  
\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/authorization/ReactiveAuthorizationManager.java  
\*  
/opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/core/context/ReactiveSecurityContextHolder.java  
\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/crypto/password/Md4.java  
\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/core/userdetails/ReactiveUserDetailsService.java  
\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/core/SpringSecurityCoreVersion.java  
\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/core/userdetails/MapReactiveUserDetailsService.java

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\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/jackson2/UsernamePasswordAuthenticationTokenDeserializer.java

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\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/authentication/jaas/DefaultJaasAuthenticationProvider.java

\*

/opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/authentication/jaas/memory/InMemoryConfiguration.java

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```
* limitations under the License.
*/
/**
 * Determines if the {@link #getAuthentication()} has permission to access the target
 * given the permission
 * @param target the target domain object to check permission on
 * @param permission the permission to check on the domain object (i.e. "read",
 * "write", etc).
 * @return true if permission
is granted to the {@link #getAuthentication()}, else
 * false
*/
```

Found in path(s):

```
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-
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```

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```
* /opt/cola/permits/1172781884_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-
jar/org/springframework/security/core/ComparableVersion.java
```

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\* limitations under the License.  
\*/  
/\*\*  
\* Reviews the `Object` returned from a secure object invocation, being able to  
\* modify the `Object` or throw an { [@link AccessDeniedException](#)}.  
\* 

<p>  
\* Typically used to ensure the principal is permitted to access the domain object  
\* instance returned by a service layer bean.  
Can also be used to mutate the domain object  
\* instance so the principal is only able to access authorised bean properties or  
\* `Collection` elements.  
\* 

<p>  
\* Special consideration should be given to using an `AfterInvocationManager`  
\* on bean methods that modify a database. Typically an  
\* `AfterInvocationManager` is used with read-only methods, such as  
\* `public DomainObject getById(id)`. If used with methods that modify a  
\* database, a transaction manager should be used to ensure any  
\* `AccessDeniedException` will cause a rollback of the changes made by the  
\* transaction.  
\* 

</p>  
\*  
\* @author Ben Alex

\*/

Found in path(s):

\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/access/intercept/AfterInvocationManager.java

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\*/

/\*\*

\* A token issued by { @link TokenService }.

\*

\* <p>

\* It is important that the keys assigned to tokens are sufficiently randomised and

\* secured that they can serve as identifying a unique user session. Implementations of

\* { @link TokenService } are free to use encryption or encoding strategies of their choice.

\* It is strongly recommended that keys are of sufficient length to balance safety against

\* persistence cost. In relation to persistence cost, it is strongly recommended that

\* returned keys are small enough for encoding in a cookie.

\* </p>

\*

\* @author Ben Alex

\* @since 2.0.1

\*/

Found in path(s):

\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/core/token/Token.java

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- \* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/access/PermissionCacheOptimizer.java
- \* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/access/package-info.java
- \*
- /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/core/session/SessionDestroyedEvent.java
- \* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/access/method/DelegatingMethodSecurityMetadataSource.java
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- \* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/access/annotation/Js250SecurityConfig.java
- \* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/core/authority/mapping/SimpleMappableAttributesRetriever.java
- \* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/access/prepost/PostInvocationAdviceProvider.java
- \*
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- \* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/jackson2/package-info.java
- \* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/authentication/dao/package-info.java
- \* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/access/expression/method/MethodSecurityExpressionHandler.java
- \* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/access/prepost/PreFilter.java
- \*
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\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/access/hierarchicalroles/package-info.java  
\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/access/expression/ExpressionUtils.java  
\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/authentication/event/package-info.java  
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\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/provisioning/package-info.java  
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\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/core/token/DefaultToken.java  
\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/core/package-info.java  
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\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/access/annotation/AnnotationMetadataExtractor.java  
\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/core/authority/mapping/NullAuthoritiesMapper.java  
\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/core/authority/GrantedAuthoritiesContainer.java  
\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/core/userdetails/UserDetailsChecker.java  
\*

/opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/provisioning/MutableUser.java  
\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/access/method/package-info.java  
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\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/access/prepost/PreInvocationAttribute.java  
\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/authentication/AccountStatusUserDetailsChecker.java  
\*

/opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/core/authority/mapping/GrantedAuthoritiesMapper.java  
\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/access/expression/AbstractSecurityExpressionHandler.java  
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\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/authentication/AuthenticationEventPublisher.java  
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\*

\* @param authentication represents the user in question. Should not be null.  
\* @param targetDomainObject the domain object for which permissions should be  
\* checked. May be null in which case implementations should return false, as the null  
\* condition can be checked explicitly in the expression.

\* @param permission a representation of the permission object as supplied by the  
\* expression system. Not null.

\* @return true if the permission is granted, false otherwise

\*/

Found in path(s):

\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-  
jar/org/springframework/security/access/PermissionEvaluator.java

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jar/org/springframework/security/access/expression/method/ExpressionBasedPreInvocationAdvice.java

\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/access/hierarchicalroles/RoleHierarchyImpl.java  
\*  
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\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/authentication/ReactiveAuthenticationManagerAdapter.java  
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\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/jackson2/SimpleGrantedAuthorityMixin.java

\* /opt/cola/permits/1172781884\_1623366918.22/0/spring-security-core-5-3-3-release-sources-1-jar/org/springframework/security/jackson2/RememberMeAuthenticationTokenMixin.java

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# 1.956 error\_prone\_annotations 2.3.4

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```

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jar/com/google/errorprone/annotations/concurrent/LockMethod.java
* /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-
jar/com/google/errorprone/annotations/NoAllocation.java
* /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-
jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java
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\* /opt/cola/permits/1177939649\_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/RestrictedApi.java  
\* /opt/cola/permits/1177939649\_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/MustBeClosed.java  
\*

/opt/cola/permits/1177939649\_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/FormatMethod.java  
\* /opt/cola/permits/1177939649\_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/FormatString.java  
\* /opt/cola/permits/1177939649\_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/CompatibleWith.java

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\* /opt/cola/permits/1177939649\_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/Var.java  
\* /opt/cola/permits/1177939649\_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java  
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/opt/cola/permits/1177939649\_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/ForOverride.java  
\* /opt/cola/permits/1177939649\_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/concurrent/LazyInit.java  
\* /opt/cola/permits/1177939649\_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/CompileTimeConstant.java  
\* /opt/cola/permits/1177939649\_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/Immutable.java  
\* /opt/cola/permits/1177939649\_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/IncompatibleModifiers.java  
\* /opt/cola/permits/1177939649\_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/SuppressPackageLocation.java  
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\* /opt/cola/permits/1177939649\_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/CheckReturnValue.java  
\* /opt/cola/permits/1177939649\_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/DoNotCall.java  
\*  
/opt/cola/permits/1177939649\_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java

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```
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/internal/LinkedTreeMap.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/internal/LinkedHashMap.java
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```

```
jar/com/google/gson/internal/bind/CollectionTypeAdapterFactory.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/internal/bind/TypeAdapters.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/internal/bind/JsonTreeReader.java
*
/opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/internal/bind/ArrayTypeAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/internal/bind/ObjectTypeAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/TypeAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/internal/JsonReaderInternalAccess.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/internal/bind/JsonTreeWriter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/TypeAdapterFactory.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java
*
/opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java
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jar/com/google/gson/internal/reflect/PreJava9ReflectionAccessor.java  
\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-  
jar/com/google/gson/internal/PreJava9DateFormatProvider.java  
\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-  
jar/com/google/gson/internal/reflect/ReflectionAccessor.java  
\*  
/opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-  
jar/com/google/gson/internal/reflect/UnsafeReflectionAccessor.java  
\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-  
jar/com/google/gson/internal/JavaVersion.java  
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jar/com/google/gson/JsonParseException.java

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\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/ExclusionStrategy.java  
\*  
/opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonDeserializer.java  
\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/\$Gson\$Preconditions.java  
\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/Excluder.java  
\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonSerializationContext.java  
\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonArray.java  
\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/annotations/Since.java  
\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/Primitives.java  
\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/reflect/TypeToken.java  
\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/Gson.java  
\*  
/opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonIOException.java  
\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonObject.java  
\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonSerializer.java  
\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/ObjectConstructor.java  
\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonNull.java  
\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonDeserializationContext.java  
\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonElement.java  
\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/GsonBuilder.java  
\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/FieldNamingPolicy.java  
\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/FieldNamingStrategy.java  
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/opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/DefaultDateTypeAdapter.java  
\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/annotations/Until.java  
\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/annotations/SerializedName.java  
\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/annotations/Expose.java  
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\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/SqlDateTypeAdapter.java  
\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/ConstructorConstructor.java  
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\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/TimeTypeAdapter.java  
\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-

jar/com/google/gson/internal/bind/DateTypeAdapter.java  
\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-  
jar/com/google/gson/internal/UnsafeAllocator.java  
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jar/com/google/gson/JsonSyntaxException.java  
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jar/com/google/gson/stream/JsonToken.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/stream/JsonWriter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/stream/JsonScope.java
*
/opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/stream/MalformedJsonException.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/stream/JsonReader.java
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Found in path(s):

\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/LongSerializationPolicy.java

\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonStreamParser.java

\* /opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/FieldAttributes.java  
\*

/opt/cola/permits/1108597571\_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonParser.java

# 1.958 jakarta xml bind api 2.3.3

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```
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```

```
Gnomovision
```

```
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```

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```
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compilers) written by James Hacker.
```

```
signature of Ty Coon, 1 April 1989
```

```
Ty Coon, President of Vice
```

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# 1.960 jctools-core 3.0.0

## 1.960.1 Available under license :

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Manifest-Version: 1.0  
Bnd-LastModified: 1578049665284  
Build-Jdk: 1.8.0\_232  
Built-By: yak  
Bundle-Description: Java Concurrency Tools Core Library  
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>  
Bundle-ManifestVersion: 2  
Bundle-Name: Java Concurrency Tools Core Library  
Bundle-SymbolicName: org.jctools.core  
Bundle-Version: 3.0.0  
Created-By: Apache Maven Bundle Plugin  
Export-Package: org.jctools.maps;version="3.0.0",org.jctools.util;version="3.0.0";uses="sun.misc",org.jctools.queues;version="3.0.0";uses="org.jctools.queues.spec",org.jctools.queues.spec;version="3.0.0",org.jctools.queues.atomic;version="3.0.0";uses="org.jctools.queues,org.jctools.queues.spec"  
Import-Package: sun.misc;resolution:=optional  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"  
Tool: Bnd-4.2.0.201903051501

Found in path(s):

\* /opt/cola/permits/1177956791\_1625584358.42/0/jctools-core-3-0-0-5-jar/META-INF/MANIFEST.MF

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```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
  <modelVersion>4.0.0</modelVersion>
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  <groupId>org.jctools</groupId>
  <version>3.0.0</version>
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  <packaging>bundle</packaging>
```

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</plugin>
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  </repository>
</distributionManagement>

<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

<licenses>
  <license>
    <name>Apache
    License, Version 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
  </license>
</licenses>

```



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<distribution>repo</distribution>
</license>
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<scm>
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</developer>
<developer>
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</developer>
<developer>
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<developer>
<url>https://github.com/franz1981</url>
</developer>
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<prerequisites>
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</prerequisites>

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<junit.version>4.12</junit.version>
<guava-testlib.version>21.0</guava-testlib.version>
</properties>
</project>
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Found

in path(s):

\* /opt/cola/permits/1177956791\_1625584358.42/0/jctools-core-3-0-0-5-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

# 1.961 gnutls 3.6.7-4+deb10u6

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less

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Any executables

containing that work also fall under Section 6,

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Version 3, 29 June 2007

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```
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##  
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## 1.962 pflag v1.0.5

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\* /opt/cola/permits/1199743771\_1630577635.9/0/esri-geometry-api-1-2-1-sources-1-jar/com/esri/core/geometry/OperatorExportToGeoJson.java  
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\* /opt/cola/permits/1199743771\_1630577635.9/0/esri-geometry-api-1-2-1-sources-1-  
jar/com/esri/core/geometry/OperatorShapePreservingDensifyLocal.java  
\* /opt/cola/permits/1199743771\_1630577635.9/0/esri-geometry-api-1-2-1-sources-1-  
jar/com/esri/core/geometry/Bufferer.java  
\* /opt/cola/permits/1199743771\_1630577635.9/0/esri-geometry-api-1-2-1-sources-1-  
jar/com/esri/core/geometry/MapOGCStructure.java  
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jar/com/esri/core/geometry/OperatorDisjoint.java  
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\* /opt/cola/permits/1199743771\_1630577635.9/0/esri-geometry-api-1-2-1-sources-1-  
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jar/com/esri/core/geometry/ProjectionTransformation.java  
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\* /opt/cola/permits/1199743771\_1630577635.9/0/esri-geometry-api-1-2-1-sources-1-  
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jar/com/esri/core/geometry/OperatorRelateLocal.java  
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jar/com/esri/core/geometry/OGCStructure.java

\* /opt/cola/permits/1199743771\_1630577635.9/0/esri-geometry-api-1-2-1-sources-1-jar/com/esri/core/geometry/GeometryAccelerators.java  
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\* /opt/cola/permits/1199743771\_1630577635.9/0/esri-geometry-api-1-2-1-sources-1-jar/com/esri/core/geometry/OperatorDifferenceLocal.java  
\* /opt/cola/permits/1199743771\_1630577635.9/0/esri-geometry-api-1-2-1-sources-1-jar/com/esri/core/geometry/Point3D.java  
\* /opt/cola/permits/1199743771\_1630577635.9/0/esri-geometry-api-1-2-1-sources-1-jar/com/esri/core/geometry/NonSimpleResult.java  
\* /opt/cola/permits/1199743771\_1630577635.9/0/esri-geometry-api-1-2-1-sources-1-jar/com/esri/core/geometry/Interop.java  
\* /opt/cola/permits/1199743771\_1630577635.9/0/esri-geometry-api-1-2-1-sources-1-jar/com/esri/core/geometry/OperatorExportToESRIShape.java  
\* /opt/cola/permits/1199743771\_1630577635.9/0/esri-geometry-api-1-2-1-sources-1-jar/com/esri/core/geometry/OperatorIntersectionLocal.java

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Version 1.1

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Found in path(s):

```
* /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/Util.java
```

\* /opt/cola/permits/1199743872\_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/OP.java  
 \* /opt/cola/permits/1199743872\_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/Offset.java  
 \*  
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 \*  
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 \*  
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 \* /opt/cola/permits/1199743872\_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/Label.java  
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 \* /opt/cola/permits/1199743872\_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/RelocData.java  
 \* /opt/cola/permits/1199743872\_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/CONDITION.java  
 \* /opt/cola/permits/1199743872\_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/PREF\_ENUM.java  
 \* /opt/cola/permits/1199743872\_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/RELOC\_MODE.java

```
* /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/LinkData.java
* /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-
jar/jnr/a64asm/SYSREG_CODE.java
* /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/ExtendedValue.java
*
/opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-
jar/jnr/a64asm/SysRegDescription.java
* /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-jar/jnr/a64asm/INST_CODE.java
```

## 1.972 java-compression 1.7.1

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Found in path(s):

```
* /opt/cola/permits/1199743907_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/util/package.html
* /opt/cola/permits/1199743907_1630577681.48/0/lz4-java-1-7-1-sources-jar/overview.html
* /opt/cola/permits/1199743907_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/package.html
* /opt/cola/permits/1199743907_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/xxhash/package.html
```

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Found in path(s):

- \* /opt/cola/permits/1199743907\_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4CompressorWithLength.java
- \* /opt/cola/permits/1199743907\_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/xxhash/XXHash32JNI.java
- \* /opt/cola/permits/1199743907\_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4UnknownSizeDecompressor.java
- \*
- /opt/cola/permits/1199743907\_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4BlockOutputStream.java
- \* /opt/cola/permits/1199743907\_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4JNISafeDecompressor.java
- \* /opt/cola/permits/1199743907\_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4Compressor.java
- \* /opt/cola/permits/1199743907\_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/util/Utils.java
- \* /opt/cola/permits/1199743907\_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4JNI.java
- \* /opt/cola/permits/1199743907\_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/xxhash/StreamingXXHash32.java
- \* /opt/cola/permits/1199743907\_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4DecompressorWithLength.java
- \* /opt/cola/permits/1199743907\_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4Constants.java
- \* /opt/cola/permits/1199743907\_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/xxhash/XXHashJNI.java
- \*
- /opt/cola/permits/1199743907\_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4HCJNICompressor.java
- \* /opt/cola/permits/1199743907\_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/xxhash/StreamingXXHash64.java
- \* /opt/cola/permits/1199743907\_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4Exception.java
- \* /opt/cola/permits/1199743907\_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/util/UnsafeUtils.java
- \* /opt/cola/permits/1199743907\_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/xxhash/XXHashFactory.java
- \* /opt/cola/permits/1199743907\_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/xxhash/AbstractStreamingXXHash32Java.java
- \* /opt/cola/permits/1199743907\_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/xxhash/AbstractStreamingXXHash64Java.java
- \* /opt/cola/permits/1199743907\_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4FrameOutputStream.java
- \* /opt/cola/permits/1199743907\_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4JNICompressor.java
- \*
- /opt/cola/permits/1199743907\_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4UnsafeUtils.java
- \* /opt/cola/permits/1199743907\_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/util/Native.java
- \* /opt/cola/permits/1199743907\_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/xxhash/StreamingXXHash64JNI.java
- \* /opt/cola/permits/1199743907\_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4SafeDecompressor.java
- \* /opt/cola/permits/1199743907\_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4Decompressor.java

```

* /opt/cola/permits/1199743907_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4Utils.java
* /opt/cola/permits/1199743907_1630577681.48/0/lz4-java-1-7-1-sources-
jar/net/jpountz/xxhash/StreamingXXHash32JNI.java
* /opt/cola/permits/1199743907_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4SafeUtils.java
* /opt/cola/permits/1199743907_1630577681.48/0/lz4-java-1-7-1-sources-
jar/net/jpountz/lz4/LZ4BlockInputStream.java
*
/opt/cola/permits/1199743907_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/xxhash/XXHash64.java
* /opt/cola/permits/1199743907_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/xxhash/XXHash32.java
* /opt/cola/permits/1199743907_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/lz4/LZ4Factory.java
* /opt/cola/permits/1199743907_1630577681.48/0/lz4-java-1-7-1-sources-jar/net/jpountz/util/SafeUtils.java
* /opt/cola/permits/1199743907_1630577681.48/0/lz4-java-1-7-1-sources-
jar/net/jpountz/lz4/LZ4JNIFastDecompressor.java
* /opt/cola/permits/1199743907_1630577681.48/0/lz4-java-1-7-1-sources-
jar/net/jpountz/xxhash/XXHashConstants.java
* /opt/cola/permits/1199743907_1630577681.48/0/lz4-java-1-7-1-sources-
jar/net/jpountz/xxhash/XXHash64JNI.java
* /opt/cola/permits/1199743907_1630577681.48/0/lz4-java-1-7-1-sources-
jar/net/jpountz/lz4/LZ4ByteBufferUtils.java
* /opt/cola/permits/1199743907_1630577681.48/0/lz4-java-1-7-1-sources-
jar/net/jpountz/lz4/LZ4FrameInputStream.java
*
/opt/cola/permits/1199743907_1630577681.48/0/lz4-java-1-7-1-sources-
jar/net/jpountz/lz4/LZ4FastDecompressor.java

```

## 1.973 json-path 2.4.0

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```

Found in path(s):

```

* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-

```

jar/com/jayway/jsonpath/InvalidJsonException.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/InvalidCriteriaException.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/JsonPathException.java  
\*  
/opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/internal/path/PredicateContextImpl.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/internal/Utils.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/internal/function/latebinding/PathLateBindingValue.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/ParseContext.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/Configuration.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/EvaluationListener.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/internal/path/RootPathToken.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/spi/json/JettisonProvider.java  
\*  
/opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/internal/path/CompiledPath.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/WriteContext.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/Option.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/internal/path/PredicatePathToken.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/InvalidPathException.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/internal/Path.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/internal/path/ArrayPathToken.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/spi/json/JsonProvider.java  
\*  
/opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/ValueCompareException.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/Predicate.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/spi/mapper/JsonSmartMappingProvider.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/ReadContext.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-



jar/com/jayway/jsonpath/internal/path/PathToken.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/spi/json/AbstractJsonProvider.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/Filter.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/spi/json/JacksonJsonProvider.java  
\*  
/opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/internal/function/latebinding/JsonLateBindingValue.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/internal/path/ScanPathToken.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/spi/cache/LRUCache.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/InvalidModificationException.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/spi/mapper/MappingException.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/internal/path/WildcardPathToken.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/spi/mapper/TapestryMappingProvider.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/Criteria.java  
\*  
/opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-jar/com/jayway/jsonpath/TypeRef.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/internal/JsonContext.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/internal/EvaluationContext.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/spi/mapper/JacksonMappingProvider.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/DocumentContext.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/spi/json/JsonSmartJsonProvider.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/internal/JsonFormatter.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/spi/mapper/MappingProvider.java  
\*  
/opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/spi/mapper/GsonMappingProvider.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/JsonPath.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/internal/path/EvaluationContextImpl.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-  
jar/com/jayway/jsonpath/internal/function/latebinding/ILateBindingValue.java  
\* /opt/cola/permits/1199743787\_1630577685.84/0/json-path-2-4-0-sources-7-

```
jar/com/jayway/jsonpath/internal/path/PropertyPathToken.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-
jar/com/jayway/jsonpath/spi/json/GsonJsonProvider.java
* /opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-
jar/com/jayway/jsonpath/PathNotFoundException.java
*
/opt/cola/permits/1199743787_1630577685.84/0/json-path-2-4-0-sources-7-
jar/com/jayway/jsonpath/MapFunction.java
```

## 1.974 consul-api 1.4.5

### 1.974.1 Available under license :

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## 1.975 logging-interceptor 3.14.9

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```
* /opt/cola/permits/1199746110_1630577833.08/0/logging-interceptor-3-14-9-sources-1-
jar/okhttp3/logging/LoggingEventListener.java
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Found in path(s):

\* /opt/cola/permits/1199746110\_1630577833.08/0/logging-interceptor-3-14-9-sources-1-jar/okhttp3/logging/HttpLoggingInterceptor.java

# 1.976 lz4-java 1.7.1

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*/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/schedulers/SchedulerLifecycle.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeReduce.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/SuppressAnimalSniffer.java  
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/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeTakeLastOne.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/DeferredScalarSubscriber.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/ExceptionsUtils.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeConcatMap.java  
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\*  
/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleOperatorOnErrorResumeNext.java  
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```

```
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/CompletableOnSubscribeMergeArray.java
```

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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Func7.java
```

```
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaPlugins.java
```

```
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/subscriptions/BooleanSubscription.java
```

```
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
```

jar/rx/exceptions/MissingBackpressureException.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorSkipWhile.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorAsObservable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorToObservableSorted.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorElementAt.java  
\*  
/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/BufferUntilSubscriber.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorObserveOn.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/SubscriptionList.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/util/ScalarSynchronousObservable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorDoOnSubscribe.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/CompletableOnSubscribeConcatIterable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorWithLatestFromMany.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/IndexedRingBuffer.java  
\*  
/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/util/BackpressureDrainManager.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorTakeUntil.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorSubscribeOn.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorReplay.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/exceptions/UnsubscribeFailedException.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorTakeLast.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OnSubscribeFromArray.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/Subscription.java  
\*  
/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/CompletableOnSubscribeMergeDelayErrorIterable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/schedulers/Schedulers.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Func4.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OnSubscribeSingle.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorSkip.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/Producer.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeTimeoutTimedWithFallback.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeAmb.java  
 \*  
 /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorIgnoreElements.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorDoOnRequest.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeToMap.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/Completable.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/PublishSubject.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Func6.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/schedulers/NewThreadScheduler.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/Subject.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorOnBackpressureBuffer.java  
 \*  
 /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action9.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/schedulers/TimeInterval.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeTimeoutSelectorWithFallback.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/Notification.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/Observer.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorAll.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/NotificationLite.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action5.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Func0.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Func9.java  
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 /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorTimestamp.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/Scheduler.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/SerializedSubscriber.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Functions.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observables/SyncOnSubscribe.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Func8.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action4.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeDefer.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/RxRingBuffer.java  
 \*

/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorDematerialize.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeGroupJoin.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeRange.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action3.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeFromIterable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/BlockingOperatorLatest.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/Subscribers.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorMaterialize.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleDoOnEvent.java  
\*  
/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subscriptions/MultipleAssignmentSubscription.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleOnSubscribeMap.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorOnBackpressureDrop.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/exceptions/OnCompletedFailedException.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/schedulers/TrampolineScheduler.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorThrottleFirst.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/schedulers/ImmediateScheduler.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/TestSubscriber.java  
\*  
/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorUnsubscribeOn.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorSequenceEqual.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorToObservableList.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorSkipLast.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/SubjectSubscriptionManager.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action8.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorGroupBy.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorTakeWhile.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
 jar/rx/internal/operators/OnSubscribeMap.java  
 \*  
 /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/SerializedObserver.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Function.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/package-info.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorZip.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action1.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
 jar/rx/internal/operators/OperatorMapNotification.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/schedulers/TestScheduler.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
 jar/rx/internal/operators/CompletableOnSubscribeTimeout.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/TestObserver.java  
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 /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
 jar/rx/internal/operators/OperatorSingle.java  
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 jar/rx/exceptions/OnErrorNotImplementedException.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/schedulers/ImmediateScheduler.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
 jar/rx/internal/operators/OperatorZipIterable.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
 jar/rx/subscriptions/RefCountSubscription.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
 jar/rx/internal/operators/OnSubscribeSwitchIfEmpty.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
 jar/rx/plugins/RxJavaObservableExecutionHook.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Func3.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
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 /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
 jar/rx/internal/operators/OperatorSerialize.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
 jar/rx/internal/operators/BlockingOperatorMostRecent.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
 jar/rx/internal/operators/OnSubscribeDoOnEach.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/Observers.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaErrorHandler.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorAny.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/schedulers/Timestamped.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
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 \*  
 /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Func2.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
 jar/rx/internal/operators/CompletableOnSubscribeMerge.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action7.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorCast.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/schedulers/CachedThreadScheduler.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/schedulers/package-info.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/Subscriber.java  
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 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeJoin.java  
 \*  
 /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeUsing.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/BehaviorSubject.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action6.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observables/GroupedObservable.java  
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 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/BlockingOperatorToFuture.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaObservableExecutionHookDefault.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/ReplaySubject.java  
 \*  
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 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action2.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/CompletableOnSubscribeMergeIterable.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorTimeInterval.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Func5.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeRedo.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeFilter.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/BlockingOperatorToIterator.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/SafeSubscriber.java  
 \*  
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 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/schedulers/GenericScheduledExecutorService.java  
 \* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-

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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/CachedObservable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/LinkedList.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorTakeUntilPredicate.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Func1.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subscriptions/Subscriptions.java  
\*  
/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/exceptions/Exceptions.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/subscriptions/SerialSubscription.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/subscriptions/CompositeSubscription.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorSkipLastTimed.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorMerge.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/exceptions/CompositeException.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/exceptions/OnErrorThrowable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/schedulers/NewThreadScheduler.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/UnicastSubject.java  
\*  
/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/exceptions/OnErrorFailedException.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/schedulers/SleepingAction.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Action0.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/TestSubject.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/AsyncSubject.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/BlockingOperatorNext.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/ActionN.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorOnErrorResumeNextViaFunction.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OnSubscribeToObservableFuture.java  
\*  
/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/SerializedSubject.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/CompletableOnSubscribeConcatArray.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/FuncN.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorScan.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/schedulers/TrampolineScheduler.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-

jar/rx/internal/operators/OperatorTake.java

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\*/

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\*/

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```
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jar/rx/internal/operators/SingleDoAfterTerminate.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/singles/BlockingSingle.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observables/AsyncOnSubscribe.java
*
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/BlockingUtils.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/SingleSubscriber.java
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```
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/CompletableEmitter.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/CompletableSubscriber.java
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/SingleEmitter.java
```

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/CompletableFromEmitter.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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\*/

Found in path(s):

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/unsafe/SpscUnboundedArrayQueue.java  
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\*/

Found in path(s):

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/atomic/SpscLinkedAtomicQueue.java

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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/producers/ProducerObserverArbiter.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/producers/QueuedProducer.java

\*

/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/BackpressureUtils.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/producers/ProducerArbiter.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/producers/SingleProducer.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/producers/SingleDelayedProducer.java

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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorBufferWithTime.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorMulticast.java

\*

/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorMapPair.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorEagerConcatMap.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorDistinct.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/schedulers/ScheduledAction.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorSampleWithObservable.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-

jar/rx/internal/operators/OnSubscribeTimerPeriodically.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/schedulers/ExecutorScheduler.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorBufferWithSize.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorDebounceWithSelector.java  
\*  
/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorDebounceWithTime.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorWindowWithStartEndObservable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/RxThreadFactory.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OnSubscribeDelaySubscription.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorWindowWithObservable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OnSubscribeDelaySubscriptionOther.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OnSubscribeSkipTimed.java  
\*  
/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorSkipUntil.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OnSubscribeTimerOnce.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorWindowWithObservableFactory.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorDistinctUntilChanged.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/SingleOnSubscribeDelaySubscriptionOther.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorPublish.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorBufferWithStartEndObservable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/PlatformDependent.java  
\*  
/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorRetryWithPredicate.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OnSubscribeDelaySubscriptionWithSelector.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorBufferWithSingleObservable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorDelayWithSelector.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorDoAfterTerminate.java

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorTakeTimed.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorWindowWithSize.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorSwitch.java  
\*  
/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/schedulers/NewThreadWorker.java  
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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorSampleWithTime.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OperatorWindowWithTime.java  
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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeRefCount.java  
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*/
/**
* This plugin class provides 2 ways to customize {@link Scheduler} functionality
* 1. You may redefine entire schedulers, if you so choose. To do so, override
* the 3 methods that return Scheduler (io(), computation(), newThread()).
* 2. You may wrap/decorate an {@link Action0}, before it is handed off to a Scheduler. The
system-
* supplied Schedulers (Schedulers.ioScheduler, Schedulers.computationScheduler,
* Scheduler.newThreadScheduler) all use this hook, so it's a convenient way to
* modify Scheduler functionality without redefining Schedulers wholesale.
*
* Also, when redefining Schedulers, you are free to use/not use the onSchedule decoration hook.
* <p>
* See {@link RxJavaPlugins} or the RxJava GitHub Wiki for information on configuring plugins:
* <a
href="https://github.com/ReactiveX/RxJava/wiki/Plugins">https://github.com/ReactiveX/RxJava/wiki/Plugins</a>.
*/

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Found in path(s):

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* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaSchedulersHook.java
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```

\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/Observable.java

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\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/atomic/SpSCExactAtomicArrayQueue.java

\*

/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/atomic/SpSCAtomicArrayQueue.java

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core/src/main/java/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
 */
```

Found in path(s):

```
*/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/util/unsafe/ConcurrentSequencedCircularArrayQueue.java
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*/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/OnSubscribeDetach.java
*/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/Emitter.java
*/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-
jar/rx/internal/operators/SingleTakeUntilObservable.java
*
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/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observables/package-info.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/SafeCompletableSubscriber.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/ActionObserver.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeThrow.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/package-info.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleTakeUntilCompletable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/CompletableFlatMapSingleToCompletable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/annotations/package-info.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/InternalObservableUtils.java  
\*  
/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/BackpressureOverflow.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaCompletableExecutionHook.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleDoOnUnsubscribe.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/subscriptions/Unsubscribed.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeLift.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleLiftObservableOperator.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaSingleExecutionHook.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleOnErrorReturn.java  
\*  
/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeOnAssembly.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/package-info.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleFromObservable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeOnAssemblyCompletable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleFromEmitter.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeCreate.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/ActionNotificationObserver.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeOnAssemblySingle.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/subscriptions/CancellableSubscription.java

\*  
/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleObserveOn.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/schedulers/GenericScheduledExecutorServiceFactory.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/AssertableSubscriber.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subjects/package-info.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaSingleExecutionHookDefault.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/observers/AssertableSubscriberObservable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleFromCallable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/ObserverSubscriber.java  
\*  
/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/package-info.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/exceptions/package-info.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/exceptions/AssemblyStackTraceException.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleFromFuture.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleTakeUntilSingle.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/functions/Cancellable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/EmptyObservableHolder.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleToObservable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/schedulers/SchedulerWhen.java  
\*  
/opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/NeverObservableHolder.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/observers/AsyncCompletableSubscriber.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/schedulers/SchedulePeriodicHelper.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/OnSubscribeFlattenIterable.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/plugins/RxJavaHooks.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/singles/package-info.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/subscriptions/package-info.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleDelay.java  
\* /opt/cola/permits/1199767188\_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/operators/SingleTimeout.java  
\*

```
/opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/SingleDoOnSubscribe.java  
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/internal/util/ActionSubscriber.java  
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*  
* Inspired from https://code.google.com/p/guava-libraries/source/browse/guava/src/com/google/common/annotations/Beta.java  
*/
```

Found in path(s):

```
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-jar/rx/annotations/Experimental.java  
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```

Found in path(s):

```
* /opt/cola/permits/1199767188_1630583074.7/0/rxjava-1-3-8-sources-4-  
jar/rx/internal/operators/OperatorGroupByEvicting.java
```

# 1.979 servlet-api 4.0.1

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- \* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/StrongInternPool.java
- \*
- /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/Index.java
- \* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/PrimitiveType.java
- \* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/IndexReaderV1.java
- \* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/DotName.java
- \* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/FieldInfo.java
- \* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/Type.java
- \* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/MethodInfo.java
- \* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/UnsupportedVersion.java
- \* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/AnnotationTarget.java
- \*
- /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/Result.java
- \* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/PackedDataOutputStream.java
- \* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/FieldInternal.java
- \* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/ClassType.java
- \* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/Main.java
- \* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-

jar/org/jboss/jandex/AnnotationValue.java  
\* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-  
jar/org/jboss/jandex/JandexAntTask.java  
\* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-  
jar/org/jboss/jandex/IndexReader.java  
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jar/org/jboss/jandex/PackedDataInputStream.java  
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jar/org/jboss/jandex/MethodParameterInfo.java  
\* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-  
jar/org/jboss/jandex/CompositeIndex.java  
\* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/IndexWriter.java  
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jar/org/jboss/jandex/TypeVariable.java  
\* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-  
jar/org/jboss/jandex/IndexReaderV2.java  
\*

/opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/ThrowsTypeTarget.java  
\* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/GenericSignatureParser.java  
\* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/MethodParameterTypeTarget.java  
\* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/AnnotationTargetFilterCollection.java  
\* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/TypeParameterTypeTarget.java  
\* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/TypeParameterBoundTypeTarget.java  
\* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/TypeTarget.java  
\* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/IndexWriterV2.java  
\*  
/opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/ParameterizedType.java  
\* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/UnresolvedTypeVariable.java  
\* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/EmptyTypeTarget.java  
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\* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/IndexWriterImpl.java  
\* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/MethodInfoGenerator.java  
\* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/FieldInfoGenerator.java  
\* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/ClassExtendsTypeTarget.java  
\* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/Utils.java  
\*  
/opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/WildcardType.java  
\* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/VoidType.java  
\* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/ArrayType.java  
\* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/MethodInternal.java  
\* /opt/cola/permits/1209153911\_1633017691.39/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/PositionBasedTypeTarget.java

## 1.982 kryo 3.0.3



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```

```
* /opt/cola/permits/1246725148_1645827478.72/0/kryo-3-0-3-sources-jar/com/esotericsoftware/kryo/io/KryoDataInput.java
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* /opt/cola/permits/1246725148_1645827478.72/0/kryo-3-0-3-sources-jar/com/esotericsoftware/kryo/util/DefaultClassResolver.java
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 /opt/cola/permits/1246725148_1645827478.72/0/kryo-3-0-3-sources-jar/com/esotericsoftware/kryo/factories/PseudoSerializerFactory.java
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* /opt/cola/permits/1246725148_1645827478.72/0/kryo-3-0-3-sources-jar/com/esotericsoftware/kryo/serializers/ObjectCachedFieldFactory.java
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jar/com/esotericsoftware/kryo/util/DefaultStreamFactory.java  
\* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-  
jar/com/esotericsoftware/kryo/pool/SoftReferenceQueue.java  
\* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-  
jar/com/esotericsoftware/kryo/util/IdentityObjectIntMap.java  
\* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-  
jar/com/esotericsoftware/kryo/serializers/ObjectField.java  
\* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-  
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\* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-  
jar/com/esotericsoftware/kryo/KryoException.java  
\* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-  
jar/com/esotericsoftware/kryo/io/OutputChunked.java  
\* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-  
jar/com/esotericsoftware/kryo/ReferenceResolver.java  
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jar/com/esotericsoftware/kryo/ClassResolver.java  
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\* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-  
jar/com/esotericsoftware/kryo/serializers/FieldSerializer.java  
\* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-  
jar/com/esotericsoftware/kryo/pool/KryoPoolQueueImpl.java  
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\* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-  
jar/com/esotericsoftware/kryo/serializers/TaggedFieldSerializer.java  
\* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-  
jar/com/esotericsoftware/kryo/factories/SerializerFactory.java  
\*  
/opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-  
jar/com/esotericsoftware/kryo/KryoCopyable.java

```

* /opt/cola/permits/1246725148_1645827478.72/0/kryo-3-0-3-sources-
jar/com/esotericsoftware/kryo/serializers/BeanSerializer.java
* /opt/cola/permits/1246725148_1645827478.72/0/kryo-3-0-3-sources-
jar/com/esotericsoftware/kryo/Registration.java
* /opt/cola/permits/1246725148_1645827478.72/0/kryo-3-0-3-sources-
jar/com/esotericsoftware/kryo/serializers/BlowfishSerializer.java
* /opt/cola/permits/1246725148_1645827478.72/0/kryo-3-0-3-sources-
jar/com/esotericsoftware/kryo/serializers/FieldSerializerGenericsUtil.java
* /opt/cola/permits/1246725148_1645827478.72/0/kryo-3-0-3-sources-
jar/com/esotericsoftware/kryo/io/UnsafeMemoryInput.java
* /opt/cola/permits/1246725148_1645827478.72/0/kryo-3-0-3-sources-
jar/com/esotericsoftware/kryo/serializers/ExternalizableSerializer.java
*
/opt/cola/permits/1246725148_1645827478.72/0/kryo-3-0-3-sources-
jar/com/esotericsoftware/kryo/serializers/CompatibleFieldSerializer.java
* /opt/cola/permits/1246725148_1645827478.72/0/kryo-3-0-3-sources-
jar/com/esotericsoftware/kryo/util/FastestStreamFactory.java
* /opt/cola/permits/1246725148_1645827478.72/0/kryo-3-0-3-sources-
jar/com/esotericsoftware/kryo/serializers/JavaSerializer.java
* /opt/cola/permits/1246725148_1645827478.72/0/kryo-3-0-3-sources-
jar/com/esotericsoftware/kryo/util/UnsafeUtil.java
* /opt/cola/permits/1246725148_1645827478.72/0/kryo-3-0-3-sources-
jar/com/esotericsoftware/kryo/util/IntArray.java
* /opt/cola/permits/1246725148_1645827478.72/0/kryo-3-0-3-sources-jar/com/esotericsoftware/kryo/util/Util.java
* /opt/cola/permits/1246725148_1645827478.72/0/kryo-3-0-3-sources-
jar/com/esotericsoftware/kryo/serializers/AsmCachedFieldFactory.java
* /opt/cola/permits/1246725148_1645827478.72/0/kryo-3-0-3-sources-
jar/com/esotericsoftware/kryo/io/ByteBufferOutputStream.java
*
/opt/cola/permits/1246725148_1645827478.72/0/kryo-3-0-3-sources-
jar/com/esotericsoftware/kryo/DefaultSerializer.java
* /opt/cola/permits/1246725148_1645827478.72/0/kryo-3-0-3-sources-
jar/com/esotericsoftware/kryo/serializers/AsmCacheFields.java
* /opt/cola/permits/1246725148_1645827478.72/0/kryo-3-0-3-sources-
jar/com/esotericsoftware/kryo/serializers/FieldSerializerUnsafeUtilImpl.java
* /opt/cola/permits/1246725148_1645827478.72/0/kryo-3-0-3-sources-
jar/com/esotericsoftware/kryo/serializers/UnsafeCacheFields.java
* /opt/cola/permits/1246725148_1645827478.72/0/kryo-3-0-3-sources-jar/com/esotericsoftware/kryo/io/Output.java
* /opt/cola/permits/1246725148_1645827478.72/0/kryo-3-0-3-sources-
jar/com/esotericsoftware/kryo/io/UnsafeInput.java
* /opt/cola/permits/1246725148_1645827478.72/0/kryo-3-0-3-sources-
jar/com/esotericsoftware/kryo/io/InputChunked.java
* /opt/cola/permits/1246725148_1645827478.72/0/kryo-3-0-3-sources-
jar/com/esotericsoftware/kryo/io/ByteBufferInputStream.java
* /opt/cola/permits/1246725148_1645827478.72/0/kryo-3-0-3-sources-
jar/com/esotericsoftware/kryo/serializers/ClosureSerializer.java
*

```

/opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-jar/com/esotericsoftware/kryo/serializers/MapSerializer.java  
\* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-jar/com/esotericsoftware/kryo/util/ObjectMap.java  
\* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-jar/com/esotericsoftware/kryo/pool/KryoPool.java  
\* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-jar/com/esotericsoftware/kryo/factories/ReflectionSerializerFactory.java  
\* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-jar/com/esotericsoftware/kryo/Kryo.java  
\* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-jar/com/esotericsoftware/kryo/io/FastOutput.java  
\* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-jar/com/esotericsoftware/kryo/io/UnsafeMemoryOutput.java  
\* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-jar/com/esotericsoftware/kryo/io/Input.java  
\*  
/opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-jar/com/esotericsoftware/kryo/serializers/FieldSerializerUnsafeUtil.java  
\* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-jar/com/esotericsoftware/kryo/serializers/UnsafeCachedFieldFactory.java  
\* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-jar/com/esotericsoftware/kryo/NotNull.java  
\* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-jar/com/esotericsoftware/kryo/Generics.java  
\* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-jar/com/esotericsoftware/kryo/serializers/VersionFieldSerializer.java  
\* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-jar/com/esotericsoftware/kryo/io/UnsafeOutput.java  
\* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-jar/com/esotericsoftware/kryo/serializers/DefaultSerializers.java  
\* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-jar/com/esotericsoftware/kryo/Serializer.java  
\*  
/opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-jar/com/esotericsoftware/kryo/serializers/CollectionSerializer.java  
\* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-jar/com/esotericsoftware/kryo/io/FastInput.java  
\* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-jar/com/esotericsoftware/kryo/io/KryoObjectOutput.java  
\* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-jar/com/esotericsoftware/kryo/serializers/DeflateSerializer.java  
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- \* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-jar/com/esotericsoftware/kryo/util/IntMap.java
- \* /opt/cola/permits/1246725148\_1645827478.72/0/kryo-3-0-3-sources-jar/com/esotericsoftware/kryo/util/IdentityMap.java

# 1.983 jopt-simple 5.0.2

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- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/internal/AbbreviationMap.java

- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/MultipleArgumentsForOptionException.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/ValueConverter.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/ValueConversionException.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/internal/MethodInvokingValueConverter.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/IllegalOptionSpecificationException.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/UnconfiguredOptionException.java
- \*
- /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/OptionException.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/AbstractOptionSpec.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/OptionSpecBuilder.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/OptionParserState.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/internal/OptionNameMap.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/HelpFormatter.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/OptionalArgumentOptionSpec.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/OptionSpec.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/internal/ReflectionException.java
- \*
- /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/OptionParser.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/internal/Strings.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/ArgumentAcceptingOptionSpec.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/MissingRequiredOptionsException.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/internal/SimpleOptionNameMap.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/util/DateConverter.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/BuiltinHelpFormatter.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/internal/ConstructorInvokingValueConverter.java
- \*
- /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/internal/Row.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/OptionMissingRequiredArgumentException.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/internal/Rows.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/internal/Columns.java
- \* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/util/InetAddressConverter.java

```
* /opt/cola/permits/1257496440_1642830153.05/0/jopt-simple-5-0-2-sources-
jar/joptsimple/OptionSpecTokenizer.java
* /opt/cola/permits/1257496440_1642830153.05/0/jopt-simple-5-0-2-sources-
jar/joptsimple/NoArgumentOptionSpec.java
* /opt/cola/permits/1257496440_1642830153.05/0/jopt-simple-5-0-2-sources-
jar/joptsimple/NonOptionArgumentSpec.java
* /opt/cola/permits/1257496440_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/ArgumentList.java
*
/opt/cola/permits/1257496440_1642830153.05/0/jopt-simple-5-0-2-sources-
jar/joptsimple/OptionArgumentConversionException.java
* /opt/cola/permits/1257496440_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/util/KeyValuePair.java
* /opt/cola/permits/1257496440_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/util/RegexMatcher.java
* /opt/cola/permits/1257496440_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/internal/Classes.java
* /opt/cola/permits/1257496440_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/internal/Reflection.java
* /opt/cola/permits/1257496440_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/OptionDescriptor.java
* /opt/cola/permits/1257496440_1642830153.05/0/jopt-simple-5-0-2-sources-
jar/joptsimple/UnrecognizedOptionException.java
* /opt/cola/permits/1257496440_1642830153.05/0/jopt-simple-5-0-2-sources-
jar/joptsimple/AlternativeLongOptionSpec.java
* /opt/cola/permits/1257496440_1642830153.05/0/jopt-simple-5-0-2-sources-
jar/joptsimple/UnavailableOptionException.java
*
/opt/cola/permits/1257496440_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/internal/Messages.java
* /opt/cola/permits/1257496440_1642830153.05/0/jopt-simple-5-0-2-sources-
jar/joptsimple/RequiredArgumentOptionSpec.java
* /opt/cola/permits/1257496440_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/ParserRules.java
* /opt/cola/permits/1257496440_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/OptionSet.java
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\* /opt/cola/permits/1257496440\_1642830153.05/0/jopt-simple-5-0-2-sources-jar/joptsimple/util/EnumConverter.java

# 1.984 javax-annotation-api 1.3.2

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jar/org/springframework/cloud/sleuth/instrument/web/client/feign/TraceFeignObjectWrapper.java
* /opt/cola/permits/1346570460_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-
jar/org/springframework/cloud/sleuth/instrument/messaging/TracingChannelInterceptor.java
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jar/org/springframework/cloud/sleuth/internal/LazyBean.java
```

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* /opt/cola/permits/1346570460_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-
jar/org/springframework/cloud/sleuth/instrument/circuitbreaker/SleuthCircuitBreakerProperties.java
```

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jar/org/springframework/cloud/sleuth/instrument/opentracing/OpenTracingAutoConfiguration.java
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```

```
* /opt/cola/permits/1346570460_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-
jar/org/springframework/cloud/sleuth/instrument/messaging/ProducerSampler.java
```

```
* /opt/cola/permits/1346570460_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-
jar/org/springframework/cloud/sleuth/instrument/web/HttpClientResponseParser.java
```

```
* /opt/cola/permits/1346570460_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-
jar/org/springframework/cloud/sleuth/instrument/rpc/RpcServerSampler.java
```

```
* /opt/cola/permits/1346570460_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-
jar/org/springframework/cloud/sleuth/instrument/web/ExceptionLoggingFilter.java
```

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```
/opt/cola/permits/1346570460_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-
jar/org/springframework/cloud/sleuth/annotation/DefaultSpanCreator.java
```

```
* /opt/cola/permits/1346570460_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-
```

jar/org/springframework/cloud/sleuth/LocalServiceName.java  
\* /opt/cola/permits/1346570460\_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-jar/org/springframework/cloud/sleuth/instrument/web/client/TraceWebClientAutoConfiguration.java  
\* /opt/cola/permits/1346570460\_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-jar/org/springframework/cloud/sleuth/instrument/hystrix/SleuthHystrixConcurrencyStrategy.java  
\* /opt/cola/permits/1346570460\_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-jar/org/springframework/cloud/sleuth/instrument/web/TraceHttpAutoConfiguration.java  
\*  
/opt/cola/permits/1346570460\_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-jar/org/springframework/cloud/sleuth/instrument/messaging/TraceMessageHeaders.java  
\* /opt/cola/permits/1346570460\_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-jar/org/springframework/cloud/sleuth/instrument/web/SleuthHttpServerParser.java  
\* /opt/cola/permits/1346570460\_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-jar/org/springframework/cloud/sleuth/instrument/web/SingleSkipPattern.java  
\* /opt/cola/permits/1346570460\_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-jar/org/springframework/cloud/sleuth/util/SpanNameUtil.java  
\* /opt/cola/permits/1346570460\_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-jar/org/springframework/cloud/sleuth/instrument/async/ExecutorBeanPostProcessor.java  
\* /opt/cola/permits/1346570460\_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-jar/org/springframework/cloud/sleuth/instrument/reactor/ReactorSleuth.java  
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/opt/cola/permits/1346570460\_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-jar/org/springframework/cloud/sleuth/instrument/web/client/feign/LazyClient.java  
\* /opt/cola/permits/1346570460\_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-jar/org/springframework/cloud/sleuth/instrument/web/HttpClientRequestParser.java  
\* /opt/cola/permits/1346570460\_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-jar/org/springframework/cloud/sleuth/instrument/web/ServerSampler.java  
\* /opt/cola/permits/1346570460\_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-jar/org/springframework/cloud/sleuth/instrument/zuul/TraceZuulHandlerMappingBeanPostProcessor.java  
\* /opt/cola/permits/1346570460\_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-jar/org/springframework/cloud/sleuth/annotation/SleuthAnnotationAutoConfiguration.java  
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/opt/cola/permits/1346570460\_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-jar/org/springframework/cloud/sleuth/instrument/web/client/feign/TraceFeignClientAutoConfiguration.java  
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\* /opt/cola/permits/1346570460\_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-jar/org/springframework/cloud/sleuth/instrument/async/TraceAsyncListenableTaskExecutor.java  
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/opt/cola/permits/1346570460\_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-  
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\* /opt/cola/permits/1346570460\_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-



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jar/org/springframework/cloud/sleuth/annotation/SleuthAnnotationProperties.java
* /opt/cola/permits/1346570460_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-
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* /opt/cola/permits/1346570460_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-
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* /opt/cola/permits/1346570460_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-
jar/org/springframework/cloud/sleuth/SpanNamer.java
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/opt/cola/permits/1346570460_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-
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* /opt/cola/permits/1346570460_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-
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* /opt/cola/permits/1346570460_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-
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/opt/cola/permits/1346570460_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-
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jar/org/springframework/cloud/sleuth/instrument/web/client/feign/OkHttpFeignClientBeanPostProcessor.java
* /opt/cola/permits/1346570460_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-
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* /opt/cola/permits/1346570460_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-
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jar/org/springframework/cloud/sleuth/instrument/web/client/SleuthWebClientEnabled.java
*
/opt/cola/permits/1346570460_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-
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* /opt/cola/permits/1346570460_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-
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* /opt/cola/permits/1346570460_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-
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* /opt/cola/permits/1346570460_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-
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/opt/cola/permits/1346570460_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-
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jar/org/springframework/cloud/sleuth/instrument/redis/TraceRedisProperties.java  
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 jar/org/springframework/cloud/sleuth/instrument/async/AsyncCustomAutoConfiguration.java  
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jar/org/springframework/cloud/sleuth/annotation/ContinueSpan.java  
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jar/org/springframework/cloud/sleuth/log/Slf4jScopeDecorator.java
*
/opt/cola/permits/1346570460_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-
jar/org/springframework/cloud/sleuth/sampler/SamplerProperties.java
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\* /opt/cola/permits/1346570460\_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-jar/org/springframework/cloud/sleuth/instrument/grpc/TracingManagedChannelBuilderCustomizer.java  
\*  
\* /opt/cola/permits/1346570460\_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-jar/org/springframework/cloud/sleuth/instrument/circuitbreaker/TraceFunction.java  
\* /opt/cola/permits/1346570460\_1655465176.7847488/0/spring-cloud-sleuth-core-2-2-3-release-sources-jar/org/springframework/cloud/sleuth/instrument/circuitbreaker/TraceSupplier.java

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# 1.987 spring-data-cassandra 3.0.1.RELEASE

## 1.987.1 Available under license :

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jar/org/springframework/data/cassandra/core/mapping/Frozen.java
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jar/org/springframework/data/cassandra/core/CassandraOperations.java
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* /opt/cola/permits/1346570463_1655465184.17646/0/spring-data-cassandra-3-0-1-release-sources-
jar/org/springframework/data/cassandra/core/AsyncCassandraOperations.java
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jar/org/springframework/data/cassandra/repository/query/PartTreeCassandraQuery.java
* /opt/cola/permits/1346570463_1655465184.17646/0/spring-data-cassandra-3-0-1-release-sources-
jar/org/springframework/data/cassandra/repository/cdi/CassandraRepositoryExtension.java
*
/opt/cola/permits/1346570463_1655465184.17646/0/spring-data-cassandra-3-0-1-release-sources-
jar/org/springframework/data/cassandra/repository/cdi/CassandraRepositoryBean.java
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jar/org/springframework/data/cassandra/config/SessionFactoryFactoryBean.java
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jar/org/springframework/data/cassandra/core/cql/keyspace/AlterUserTypeSpecification.java  
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/opt/cola/permits/1346570463\_1655465184.17646/0/spring-data-cassandra-3-0-1-release-sources-  
jar/org/springframework/data/cassandra/repository/query/ReactiveCassandraQueryExecution.java  
\* /opt/cola/permits/1346570463\_1655465184.17646/0/spring-data-cassandra-3-0-1-release-sources-  
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jar/org/springframework/data/cassandra/repository/support/ReactiveCassandraRepositoryFactoryBean.java  
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jar/org/springframework/data/cassandra/repository/query/CassandraParameters.java  
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jar/org/springframework/data/cassandra/core/cql/ReactiveCqlTemplate.java  
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\* /opt/cola/permits/1346570463\_1655465184.17646/0/spring-data-cassandra-3-0-1-release-sources-  
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\* /opt/cola/permits/1346570463\_1655465184.17646/0/spring-data-cassandra-3-0-1-release-sources-  
jar/org/springframework/data/cassandra/core/cql/ArgumentPreparedStatementBinder.java  
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jar/org/springframework/data/cassandra/repository/query/CassandraParametersParameterAccessor.java  
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jar/org/springframework/data/cassandra/repository/query/AbstractReactiveCassandraQuery.java  
\* /opt/cola/permits/1346570463\_1655465184.17646/0/spring-data-cassandra-3-0-1-release-sources-  
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jar/org/springframework/data/cassandra/repository/query/CassandraQueryMethod.java  
\* /opt/cola/permits/1346570463\_1655465184.17646/0/spring-data-cassandra-3-0-1-release-sources-  
jar/org/springframework/data/cassandra/core/ReactiveCassandraTemplate.java  
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* /opt/cola/permits/1346570463_1655465184.17646/0/spring-data-cassandra-3-0-1-release-sources-  
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/opt/cola/permits/1346570463\_1655465184.17646/0/spring-data-cassandra-3-0-1-release-sources-jar/org/springframework/data/cassandra/core/cql/generator/AlterColumnCqlGenerator.java  
\* /opt/cola/permits/1346570463\_1655465184.17646/0/spring-data-cassandra-3-0-1-release-sources-jar/org/springframework/data/cassandra/core/cql/keyspace/TableDescriptor.java  
\* /opt/cola/permits/1346570463\_1655465184.17646/0/spring-data-cassandra-3-0-1-release-sources-jar/org/springframework/data/cassandra/core/cql/keyspace/ColumnSpecification.java  
\* /opt/cola/permits/1346570463\_1655465184.17646/0/spring-data-cassandra-3-0-1-release-sources-jar/org/springframework/data/cassandra/core/cql/keyspace/DropKeyspaceSpecification.java

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* /opt/cola/permits/1346570463_1655465184.17646/0/spring-data-cassandra-3-0-1-release-sources-
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jar/org/springframework/data/cassandra/core/cql/keyspace/KeyspaceDescriptor.java
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/opt/cola/permits/1346570463_1655465184.17646/0/spring-data-cassandra-3-0-1-release-sources-
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jar/org/springframework/data/cassandra/core/cql/keyspace/DropIndexSpecification.java
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* /opt/cola/permits/1346570463_1655465184.17646/0/spring-data-cassandra-3-0-1-release-sources-
jar/org/springframework/data/cassandra/core/mapping/event/CassandraMappingEvent.java
* /opt/cola/permits/1346570463_1655465184.17646/0/spring-data-cassandra-3-0-1-release-sources-
jar/org/springframework/data/cassandra/core/mapping/event/AbstractCassandraEventListener.java
```

# 1.988 spring-cloud-sleuth-zipkin

## 2.2.3.RELEASE

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* /opt/cola/permits/1346570481_1655465185.7811813/0/spring-cloud-sleuth-zipkin-2-2-3-release-sources-1-jar/META-INF/maven/org.springframework.cloud/spring-cloud-sleuth-zipkin/pom.xml
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* /opt/cola/permits/1346570481_1655465185.7811813/0/spring-cloud-sleuth-zipkin-2-2-3-release-sources-1-jar/org/springframework/cloud/sleuth/zipkin2/sender/ZipkinSenderCondition.java
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```



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\*  
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\* /opt/cola/permits/1346570481\_1655465185.7811813/0/spring-cloud-sleuth-zipkin-2-2-3-release-sources-1-jar/org/springframework/cloud/sleuth/zipkin2/sender/ZipkinSenderProperties.java  
\* /opt/cola/permits/1346570481\_1655465185.7811813/0/spring-cloud-sleuth-zipkin-2-2-3-release-sources-1-jar/org/springframework/cloud/sleuth/zipkin2/ZipkinRestTemplateCustomizer.java

# 1.989 websocket-server 9.4.29.v20200521

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Eclipse

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

The following artifacts are EPL and ASL2.

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

The following artifacts are EPL and CDDL 1.0.

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

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

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

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

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

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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MortBay

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.

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# 1.990 websocket-client 9.4.29.v20200521

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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:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javafx.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

-----

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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<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.

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# 1.991 spring-cloud-stream-binder-kafka

## 3.0.6.RELEASE

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```
* /opt/cola/permits/1346570474_1655465180.5519903/0/typetools-0-6-2-sources-1-
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Eclipse

The following artifacts are EPL.

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

The following artifacts are EPL and ASL2.

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

The following artifacts are EPL and CDDL 1.0.

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

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

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

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

-----

#### Oracle OpenJDK

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

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

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

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#### OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

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

-----

#### Apache

The following artifacts are ASL2 licensed.

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

-----

#### MortBay

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

- org.mortbay.jasper:apache-jsp



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

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

-----

Mortbay

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

org.eclipse.jetty.toolchain:jetty-schemas

-----

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.994 failureaccess 1.0.1

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\* /opt/cola/permits/1349013147\_1655879756.6643403/0/failureaccess-1-0-1-sources-4-  
jar/com/google/common/util/concurrent/internal/InternalFutures.java  
\* /opt/cola/permits/1349013147\_1655879756.6643403/0/failureaccess-1-0-1-sources-4-  
jar/com/google/common/util/concurrent/internal/InternalFutureFailureAccess.java

## 1.995 error\_prone\_annotations 2.3.4

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 */
```

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\* /opt/cola/permits/1349040975\_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-  
jar/com/google/errorprone/annotations/RestrictedApi.java  
\* /opt/cola/permits/1349040975\_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-  
jar/com/google/errorprone/annotations/MustBeClosed.java  
\* /opt/cola/permits/1349040975\_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-  
jar/com/google/errorprone/annotations/CompatibleWith.java  
\*  
/opt/cola/permits/1349040975\_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-  
jar/com/google/errorprone/annotations/DoNotMock.java  
\* /opt/cola/permits/1349040975\_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-  
jar/com/google/errorprone/annotations/FormatMethod.java  
\* /opt/cola/permits/1349040975\_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-

jar/com/google/errorprone/annotations/FormatString.java

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\* /opt/cola/permits/1349040975\_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/CheckReturnValue.java

\*

/opt/cola/permits/1349040975\_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/DoNotCall.java

\* /opt/cola/permits/1349040975\_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java

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\* /opt/cola/permits/1349040975\_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/concurrent/LazyInit.java  
\* /opt/cola/permits/1349040975\_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/Immutable.java  
\*  
/opt/cola/permits/1349040975\_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/ForOverride.java  
\* /opt/cola/permits/1349040975\_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/IncompatibleModifiers.java  
\* /opt/cola/permits/1349040975\_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java  
\* /opt/cola/permits/1349040975\_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/CompileTimeConstant.java  
\* /opt/cola/permits/1349040975\_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/RequiredModifiers.java  
\* /opt/cola/permits/1349040975\_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/Var.java  
\* /opt/cola/permits/1349040975\_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/SuppressPackageLocation.java  
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\* /opt/cola/permits/1349040975\_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java

\* /opt/cola/permits/1349040975\_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/concurrent/LockMethod.java

\*

/opt/cola/permits/1349040975\_1655882556.5391665/0/error-prone-annotations-2-3-4-sources-11-jar/com/google/errorprone/annotations/NoAllocation.java

# 1.996 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

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The following artifacts are EPL and ASL2.

- \* org.eclipse.jetty.orbit:javafx.security.auth.message

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- \* org.eclipse.jetty.orbit:javafx.mail.glassfish

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

-----

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.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

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org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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

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org.eclipse.jetty.toolchain:jetty-schemas

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Eclipse

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

The following artifacts are EPL and ASL2.

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

The following artifacts are EPL and CDDL 1.0.

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

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

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

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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## Oracle OpenJDK

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

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

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

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## OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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## Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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## MortBay

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.

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# 1.1003 websocket-common 9.4.29.v20200521

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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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- \* 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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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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\* javax.transaction:javax.transaction-api

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

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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

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org.ow2.asm:asm-commons

org.ow2.asm:asm

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## Apache

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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## MortBay

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api



org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

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

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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# 1.1006 jetty-jndi 9.4.29.v20200521

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Eclipse

The following artifacts are EPL.

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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

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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

-----

MortBay

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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# 1.1007 jetty-security 9.4.29.v20200521

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\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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\* java.sun.security.ssl

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

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# 1.1008 websocket-api 9.4.29.v20200521



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Eclipse

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

The following artifacts are EPL and ASL2.

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

The following artifacts are EPL and CDDL 1.0.

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

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

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

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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## Oracle OpenJDK

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

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

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

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## OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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## Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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## MortBay

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.

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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

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

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org.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.

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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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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.

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# 1.1011 jetty-xml 9.4.29.v20200521

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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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\* 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
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org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
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Eclipse

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

The following artifacts are EPL and ASL2.

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

The following artifacts are EPL and CDDL 1.0.

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

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

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

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

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

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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MortBay

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.

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# 1.1013 jetty 9.4.29.v20200521

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=====  
Jetty Web Container

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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

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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

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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

# 1.1014 jose4j 0.7.0

## 1.1014.1 Available under license :

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

```
/*
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 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1660960880_1683014432.3431854/0/jose4j-0-7-0-sources-2-
jar/org/jose4j/base64url/internal/apache/commons/codec/binary/Base64.java
*
/opt/cola/permits/1660960880_1683014432.3431854/0/jose4j-0-7-0-sources-2-
jar/org/jose4j/base64url/internal/apache/commons/codec/binary/BaseNCodec.java
No license file was found, but licenses were detected in source scan.
```

```
/*
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/jwk/HttpsJwks.java  
No license file was found, but licenses were detected in source scan.

/\*

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\*/

Found in path(s):

\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/jwk/RsaJsonWebKey.java

\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/jwt/ReservedClaimNames.java

\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/keys/HmacKey.java  
\*

/opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/jwe/KeyManagementAlgorithmIdentifiers.java

\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/jwx/HeaderParameterNames.java

\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/jwk/EllipticCurveJsonWebKey.java

\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/jwe/EcdhKeyAgreementWithAesKeyWrapAlgorithm.java

\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/jwa/AlgorithmFactory.java

\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/jwx/JsonWebStructure.java

\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/mac/MacUtil.java

\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/lang/IntegrityException.java  
\*

/opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/lang/BouncyCastleProviderHelp.java

\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/jwe/kdf/KdfUtil.java

\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/base64url/SimplePEMEncoder.java

\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-



jar/org/jose4j/lang/UnresolvableKeyException.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
 jar/org/jose4j/jwt/consumer/IssValidator.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/keys/X509Util.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
 jar/org/jose4j/jwt/consumer/ErrorCodeValidatorAdapter.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
 jar/org/jose4j/jwk/EcJwkGenerator.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
 jar/org/jose4j/jwx/CompactSerializer.java  
 \*  
 /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/jwe/CipherUtil.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
 jar/org/jose4j/jws/PlaintextNoneAlgorithm.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
 jar/org/jose4j/jwx/KeyValidationSupport.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
 jar/org/jose4j/base64url/Base64Url.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
 jar/org/jose4j/jws/JsonWebSignature.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
 jar/org/jose4j/jwt/consumer/AudValidator.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
 jar/org/jose4j/zip/CompressionAlgorithmIdentifiers.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
 jar/org/jose4j/jwt/consumer/SubValidator.java  
 \*  
 /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
 jar/org/jose4j/jwk/JsonWebKeySet.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/keys/PbkdfKey.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
 jar/org/jose4j/jwe/AesKeyWrapManagementAlgorithm.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/jwa/Algorithm.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
 jar/org/jose4j/jwe/ContentEncryptionHelp.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/lang/JsonHelp.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
 jar/org/jose4j/jws/EcdsaUsingShaAlgorithm.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
 jar/org/jose4j/jwe/ContentEncryptionParts.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
 jar/org/jose4j/keys/resolvers/VerificationKeyResolver.java  
 \*  
 /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/jwk/JsonWebKey.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
 jar/org/jose4j/jwt/consumer/JwtContext.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/jwt/IntDate.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-

jar/org/jose4j/jwe/Pbes2HmacShaWithAesKeyWrapAlgorithm.java  
\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
jar/org/jose4j/jwe/ContentEncryptionAlgorithmIdentifiers.java  
\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
jar/org/jose4j/jwt/consumer/InvalidJwtException.java  
\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
jar/org/jose4j/keys/resolvers/JwksVerificationKeyResolver.java  
\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
jar/org/jose4j/jwa/AlgorithmConstraints.java  
\*  
/opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
jar/org/jose4j/zip/CompressionAlgorithm.java  
\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
jar/org/jose4j/jwe/RsaKeyManagementAlgorithm.java  
\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
jar/org/jose4j/keys/resolvers/HttpsJwksVerificationKeyResolver.java  
\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
jar/org/jose4j/jwk/VerificationJwkSelector.java  
\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
jar/org/jose4j/jwe/KeyManagementAlgorithm.java  
\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
jar/org/jose4j/jwe/ContentEncryptionKeys.java  
\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
jar/org/jose4j/jwa/AlgorithmInfo.java  
\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
jar/org/jose4j/jwe/EcdhKeyAgreementAlgorithm.java  
\*  
/opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
jar/org/jose4j/jwe/AesCbcHmacSha2ContentEncryptionAlgorithm.java  
\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/lang/ByteUtil.java  
\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
jar/org/jose4j/jwt/consumer/JwsCustomizer.java  
\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
jar/org/jose4j/jwe/WrappingKeyManagementAlgorithm.java  
\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
jar/org/jose4j/zip/DeflateRFC1951CompressionAlgorithm.java  
\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
jar/org/jose4j/jwe/CipherStrengthSupport.java  
\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
jar/org/jose4j/keys/RsaKeyUtil.java  
\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
jar/org/jose4j/jwt/consumer/JwtConsumerBuilder.java  
\*  
/opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/json/JsonUtil.java  
\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
jar/org/jose4j/jwt/consumer/Validator.java  
\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-  
jar/org/jose4j/jca/ProviderContext.java

\* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/keys/KeyPairUtil.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/jwt/consumer/SimpleKeyResolver.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/keys/KeyPersuasion.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/lang/StringUtil.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/jwe/AesGcmKeyEncryptionAlgorithm.java  
 \*  
 /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/keys/EcKeyUtil.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/lang/ExceptionHelp.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/jwe/ContentEncryptionKeyDescriptor.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/jwt/consumer/JwtConsumer.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/keys/resolvers/X509VerificationKeyResolver.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/jwk/OctJwkGenerator.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/http/Get.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/jwt/consumer/ErrorCodeValidator.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/lang/ByteGenerator.java  
 \*  
 /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/jwe/AesGcmContentEncryptionAlgorithm.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/jws/JsonWebSignatureAlgorithm.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/lang/DefaultByteGenerator.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/jwt/consumer/JtiValidator.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/keys/AesKey.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/jwt/NumericDate.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/lang/JoseException.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/jwt/GeneralJwtException.java  
 \*  
 /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/jws/RsaUsingShaAlgorithm.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/keys/BigEndianBigInteger.java  
 \* /opt/cola/permits/1660960880\_1683014432.3431854/0/jose4j-0-7-0-sources-2-

```

jar/org/jose4j/jwe/ContentEncryptionAlgorithm.java
* /opt/cola/permits/1660960880_1683014432.3431854/0/jose4j-0-7-0-sources-2-
jar/org/jose4j/keys/resolvers/DecryptionKeyResolver.java
* /opt/cola/permits/1660960880_1683014432.3431854/0/jose4j-0-7-0-sources-2-jar/org/jose4j/jwx/Headers.java
* /opt/cola/permits/1660960880_1683014432.3431854/0/jose4j-0-7-0-sources-2-
jar/org/jose4j/jws/HmacUsingShaAlgorithm.java
* /opt/cola/permits/1660960880_1683014432.3431854/0/jose4j-0-7-0-sources-2-
jar/org/jose4j/jws/BaseSignatureAlgorithm.java
* /opt/cola/permits/1660960880_1683014432.3431854/0/jose4j-0-7-0-sources-2-
jar/org/jose4j/jwk/PublicJsonWebKey.java
*
/opt/cola/permits/1660960880_1683014432.3431854/0/jose4j-0-7-0-sources-2-
jar/org/jose4j/jwk/OctetSequenceJsonWebKey.java
* /opt/cola/permits/1660960880_1683014432.3431854/0/jose4j-0-7-0-sources-2-
jar/org/jose4j/jwt/consumer/JweCustomizer.java
* /opt/cola/permits/1660960880_1683014432.3431854/0/jose4j-0-7-0-sources-2-
jar/org/jose4j/lang/UncheckedJoseException.java
* /opt/cola/permits/1660960880_1683014432.3431854/0/jose4j-0-7-0-sources-2-
jar/org/jose4j/keys/EllipticCurves.java
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* /opt/cola/permits/1660960880_1683014432.3431854/0/jose4j-0-7-0-sources-2-
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## 1.1015 protobuf-java 3.11.4

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jar/com/google/protobuf/FieldSet.java  
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\* /opt/cola/permits/1668779570\_1683634908.6867876/0/protobuf-java-3-11-4-sources-4-jar/com/google/protobuf/ServiceException.java

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== Contributors ==

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\* Providing benchmark suite

\* Alec Wysoker

\* Performance and memory usage improvement

## 1.1018 zstd 1.4.4-7

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```
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```

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

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```
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```

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

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