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1.12 go-sockaddr 1.0.2

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1.14 golib v0.0.0-20171103203638-1ea166775780

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1.16 go-zookeeper-zk v1.0.2

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1.17 k8s.io-klog v1.0.0

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1.18 docker-distribution v2.7.1+incompatible

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote 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
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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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@item
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

@item
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@item
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Give prominent notice with the combined library of the fact
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@subheading END OF TERMS AND CONDITIONS

@end page
@subheading How to Apply These Terms to Your New Libraries

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@end example

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

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signature of Ty Coon, 1 April 1990
Ty Coon, President of Vice
@end example

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Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

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@iftex
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@page
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@end var

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@end smallexample

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when it starts in an interactive mode:

@end smallexample
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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under certain conditions; type `show c' for details.
@end smallexample

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commands you use may be called something other than @samp{show w} and
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
@end example

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
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Version 2.1, February 1999

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^L
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1.31 tdb 2007-06-22

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Index: tdbsa/tdb.c

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

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
+ Copyright (C) Andrew Tridgell 1999-2005
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1.39 go-homedir v1.1.0

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* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java
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* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/ChannelHandlerMask.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-jar/io/netty/channel/ExtendedClosedChannelException.java
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*/
/**
** Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its [@link ChannelPipeline].
*
* <h3>Sub-types</h3>
* <p>
* [@link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its
* subtypes:
* <ul>
* <li>[@link ChannelInboundHandler] to handle inbound I/O events, and</li>
* <li>[@link ChannelOutboundHandler] to handle outbound I/O operations.</li>
* </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.

The context object

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

State management

A `@link ChannelHandler` often needs to store some stateful information. The simplest and recommended approach is to use member variables:

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

public class DataServerHandler extends `@link SimpleChannelInboundHandler<Message>` {

    private boolean loggedIn;

    `@Override`
    public void channelRead0(`@link ChannelHandlerContext` ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }

    // Create a new handler instance per channel.
    // See `{@link ChannelInitializer#initChannel(Channel)}`.
}
```

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.
* 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}: 
* &lt;pre&gt;  
* 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) { 
*       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(); 
*           } 
*       } 
*       ... 
*   } 
* } &lt;/pre&gt;  
* * Now that the state of the handler is attached to the { @link ChannelHandlerContext}, you can add the 
* same handler instance to different pipelines: 
* &lt;pre&gt;  
* public class DataServerInitializer extends { @link ChannelInitializer} &lt;{ @link Channel} &gt; { 
*   * private static final DataServerHandler &lt;b&gt;SHARED&lt;/b&gt; = new DataServerHandler(); 
* }
```java
public void initChannel(@link {Channel} channel) {
    channel.pipeline().addLast("handler", <b>SHARED</b>);
}
</pre>

<h4>The {@code @Sharable} annotation</h4>

In the example above which used an {@link AttributeKey}, you might have noticed the '{@code @Sharable}' annotation.

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

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

This annotation is provided for documentation purpose, just like <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.

<h3>Additional resources worth reading</h3>

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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  jar/io/netty/channel/StacklessClosedChannelException.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
  jar/io/netty/channel/socket/DuplexChannelConfig.java
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  jar/io/netty/channel/internal/package-info.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
  jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
  jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
  jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /opt/cola/permits/1150446072_1617434853.28/0/netty-transport-4-1-63-final-sources-
  jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
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  jar/io/netty/channel/PendingBytesTracker.java
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  jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
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  jar/io/netty/channel/internal/ChannelUtils.java
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  jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
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1.42 libtool 2.4.2 22.el7_3
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1.53 x-oauth2 v0.0.0-20210323180902-22b0adad7558

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  jar/org/apache/commons/digester/plugins/strategies/FinderFromDfltClass.java
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  jar/org/apache/commons/digester/plugins/PluginContext.java
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  jar/org/apache/commons/digester/ObjectCreationFactory.java
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/* $Id: DigesterLoadingException.java 155412 2005-02-26 12:58:36Z dirkv $ */
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jar/org/apache/commons/digester/plugins/LogUtils.java

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/* $Id: CallMethodRule.java 179710 2005-06-03 03:19:51Z skitching $ */

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jar/org/apache/commons/digester/CallMethodRule.java

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/* /opt/cola/permits/1135953136_1613641205.61/0/commons-digester-1-7-sources-1-jar/org/apache/commons/digester/ObjectParamRule.java */

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/* $Id: BeanPropertySetterRule.java 155412 2005-02-26 12:58:36Z dirkv $ */
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  jar/org/apache/commons/digester/BeanPropertySetterRule.java
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  jar/org/apache/commons/digester/plugins/PluginDeclarationRule.java
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* AOL
http://www.aleksey.com/pipermail/xmlsec/attachments/20030729/0e25648e/attachment.htm

* Cordys R&D BV

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1.65 netty-buffer 4.1.61.Final
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  jar/io/netty/buffer/PooledUnsafeDirectByteBuf.java
* /opt/cola/permits/1153055847_1618392524.25/0/netty-buffer-4-1-61-final-sources-
  jar/io/netty/buffer/ByteBufProcessor.java
* /opt/cola/permits/1153055847_1618392524.25/0/netty-buffer-4-1-61-final-sources-
  jar/io/netty/buffer/AbstractDerivedByteBuf.java
* /opt/cola/permits/1153055847_1618392524.25/0/netty-buffer-4-1-61-final-sources-
jar/io/netty/buffer/FixedCompositeByteBuf.java
* /opt/cola/permits/1153055847_1618392524.25/0/netty-buffer-4-1-61-final-sources-
jar/io/netty/buffer/AdvancedLeakAwareByteBuf.java
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jar/io/netty/buffer/SimpleLeakAwareByteBuf.java
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jar/io/netty/buffer/UnreleasableByteBuf.java
* /opt/cola/permits/1153055847_1618392524.25/0/netty-buffer-4-1-61-final-sources-
jar/io/netty/buffer/EmptyByteBuf.java
* /opt/cola/permits/1153055847_1618392524.25/0/netty-buffer-4-1-61-final-sources-
jar/io/netty/buffer/ReadOnlyByteBufferBuf.java
* /opt/cola/permits/1153055847_1618392524.25/0/netty-buffer-4-1-61-final-sources-
jar/io/netty/buffer/AbstractReferenceCountedByteBuf.java

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jar/io/netty/buffer/UnsafeDirectSwappedByteBuf.java
* /opt/cola/permits/1153055847_1618392524.25/0/netty-buffer-4-1-61-final-sources-
jar/io/netty/buffer/UnsafeHeapSwappedByteBuf.java

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* /opt/cola/permits/1153055847_1618392524.25/0/netty-buffer-4-1-61-final-sources-jar/io/netty/buffer/AbstractUnsafeSwappedByteBuf.java
* /opt/cola/permits/1153055847_1618392524.25/0/netty-buffer-4-1-61-final-sources-jar/io/netty/buffer/UnpooledSlicedByteBuf.java
* /opt/cola/permits/1153055847_1618392524.25/0/netty-buffer-4-1-61-final-sources-jar/io/netty/buffer/PoolChunkMetric.java
* /opt/cola/permits/1153055847_1618392524.25/0/netty-buffer-4-1-61-final-sources-jar/io/netty/buffer/HeapByteBufUtil.java
* /opt/cola/permits/1153055847_1618392524.25/0/netty-buffer-4-1-61-final-sources-jar/io/netty/buffer/UnpooledSlicedByteBuf.java
* /opt/cola/permits/1153055847_1618392524.25/0/netty-buffer-4-1-61-final-sources-jar/io/netty/buffer/PoolChunkMetric.java
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* /opt/cola/permits/1153055847_1618392524.25/0/netty-buffer-4-1-61-final-sources-jar/io/netty/buffer/PoolChunkMetric.java
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package api

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "regexp"
    "testing"
)

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)(\.)*( All rights reserved\.)*(//|#) Use of this source code is governed by a BSD-style (//|#) license that can be found in the LICENSE file.
`)  

const prefix = // Copyright

// A few files have to be skipped.
var skip = map[string]bool{
    "tools.go": true, // This file requires another comment above the license.
    "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
    "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
    err := filepath.Walk('.', func(path string, fi os.FileInfo, err error) error {
        if skip[path] {
            return nil
        }

        if err != nil {
            return nil
        }

        return nil
    })

    if err != nil {
        return
    }
}
return err
}

if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
  return nil
}

src, err := ioutil.ReadFile(path)
if err != nil {
  return nil
}

// Verify that the license is matched.
if !sentinel.Match(src) {
  t.Errorf("%v: license header not present", path)
  return nil
}

// Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
  t.Errorf("%v: license header not at the top", path)
}
  return nil
}
if err != nil {
  t.Fatal(err)
}
}

1.105 chardet 4.0.0
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/StandardDirectedMultiGraph.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/StandardMultiDirectedGraph.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/StandardMultiDirectedValueGraph.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/ForwardingGraph.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/EdgesConnecting.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/ImmutableValueGraph.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/EndpointPair.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/ForwardingValueGraph.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/AbstractGraph.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/MutableValueGraph.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/DirectedGraphConnections.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/ElementOrder.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/NetworkConnections.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/AbstractValueGraph.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/UndirectedNetworkConnections.java

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  jar/com/google/common/collection/UnmodifiableIterator.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/collection/EmptyImmutableListMultimap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/collection/ImmutableMapEntrySet.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
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  jar/com/google/common/collection/ImmutableEntry.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
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jar/com/google/common/base/Suppliers.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/io/CharStreams.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/io/package-info.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/base/FinalizableReference.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/primitives/Primitives.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/EnumMultiset.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/base/Function.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/DirectExecutor.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/io/ByteStreams.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/io/ExecutionList.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/base/Preconditions.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/base/package-info.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/ListenableFuture.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/io/LittleEndianDataInputStream.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/io/MultiInputStream.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect(Interners.java
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jar/com/google/common/eventbus/EventBus.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/io/Resources.java

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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/reflect/Types.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/AsyncFunction.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/base/FunctionalEquivalence.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/cache/package-info.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/net/HttpHeaders.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/hash/Hashing.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/EmptyContiguousSet.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/FutureCallback.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/cache/ForwardingLoadingCache.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/cache/ForwardingCache.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/hash/AbstractCompositeHashFunction.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/base/Absent.java

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jar/com/google/common/collect/IndexedImmutableSet.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/collect/BaseImmutableMultimap.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/ForwardingCondition.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/primitives/ImmutableDoubleArray.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/ForwardingLock.java

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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/hash/AbstractByteHasher.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/reflect/package-info.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/CartesianList.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/hash/LongAddable.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/FilteredKeyMultimap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/reflect/TypeCapture.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/math/LinearTransformation.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/math/StatsAccumulator.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/ImmutableRangeMap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/io/ByteSink.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/io/CharSink.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/reflect/Element.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/cache/LongAddable.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/reflect/InvocationHandler.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/hash/SipHashFunction.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/io/FileWriteMode.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/math/PairedStatsAccumulator.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/io/ByteSource.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/reflect/MutableTypeToInstanceMap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/reflect/MutableTypeToInstanceMap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/hash/ChecksumHashFunction.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/ServiceManager.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/math/PairedStats.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/cache/LongAddables.java
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 * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
 * java.util.HashMap class.
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  jar/com/google/common/base/PatternCompiler.java
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  jar/com/google/common/base/JdkPattern.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/base/CommonMatcher.java
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  jar/com/google/common/base/CommonPattern.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collections/UnmodifiableListIterator.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collections/MinMaxPriorityQueue.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collections/AbstractSequentialIterator.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collections/ForwardingSetMultimap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collections/ForwardingImmutableCollection.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collections/SortedMapDifference.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collections/ForwardingSortedSetMultimap.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>TOD@kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/ImmutableClassToInstanceMap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/ComparisonChain.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/ImmutableAsList.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/SingletonImmutableTable.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/EmptyImmutableSetMultimap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/AbstractIndexedListIterator.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/ImmutableTable.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/RegularImmutableList.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/ForwardingTable.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collection/ComputationException.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/math/Quantiles.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/base/MoreObjects.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/eventbus/SubscriberRegistry.java

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jar/com/google/common/graph/package-info.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/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/primitives/IntsMethodsForWeb.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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 */

/**
 * Outer class that exists solely to let us write [@code PartiallyGwtIncompatible] 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

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it as a [@code GwtIncompatible] annotation. And for [@code Futures.catching], we need the GWT compiler to autostrip the normal server method in order to expose the special, inherited GWT version.

*/

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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/coll/TransformedIterator.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/coll/ForwardingNavigableSet.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/coll/CompactHashSet.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/coll/CompactLinkedHashMap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/coll/ForwardingDeque.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/coll/EvictingQueue.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/coll/FilteredMultimap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/coll/FilteredKeyListMultimap.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/coll/ForwardingBlockingDeque.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
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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/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/base/ExtraObjectsMethodsForWeb.java

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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/GeneralRange.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/Count.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/ForwardingSortedMultiset.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/SortedIterables.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/AbstractRangeSet.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/RegularImmutableSortedMultiset.java
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* Holder for web specializations of methods of [@code Shorts]. Intended to be empty for regular
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*/

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jar/com/google/common/primitives/Shorts.java
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jar/com/google/common/base/Stopwatch.java
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jar/com/google/common/primitives/Floats.java
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jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/util/concurrent/ListenableFutureTask.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/base/Joiner.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/primitives/Chars.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/io/FileBackedOutputStream.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/primitives/Bytes.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/base/internal/Finalizer.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/ImmutableGraph.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/PredecessorsFunction.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/Graphs.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/PredecessorsFunction.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/Graphs.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/Graph.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/collect/TopKSelector.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/graph/ImmutableNetwork.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></a>
 */

Found in path(s):
* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-
  jar/com/google/common/collection/ImmutableSortedMapFauxverideShim.java
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* /opt/cola/permits/1136647774_1613845914.79/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/MoreExecutors.java

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1.113 k8s.io-api v0.20.2
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package api

import {
  "bytes"
  "io/ioutil"
  "os"
  "path/filepath"
  "regexp"
  "testing"
// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)(\s)*\( All rights reserved\).\)*
(//|#) Use of this source code is governed by a BSD-style
(//|#) license that can be found in the LICENSE file.
```

const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
  "tools.go": true, // This file requires another comment above the license.
  "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
  "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
  err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
    if skip[path] {
      return nil
    }

    if err != nil {
      return err
    }

    src, err := ioutil.ReadFile(path)
    if err != nil {
      return nil
    }

    // Verify that the license is matched.
    if !sentinel.Match(src) {
      t.Errorf("%v: license header not present", path)
      return nil
    }

    // Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
    if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
      t.Errorf("%v: license header not at the top", path)
    }
  })
}
return nil
}
if err != nil {
t.Fatal(err)
}
}

1.114 go-openapi-jsonreference v0.19.5
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1.116 prometheus v2.26.0

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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.params.Set("signed", "1")
    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
}
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

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.141 component-base v0.18.6

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1.149 util-linux 2.36.1-r1

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1.152 zeromq 4.3.3-r0

1.152.1 Available under license:

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1.153 sigs.k8s.io-apiserver-builder-alpha v1.18.0

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1.162 logfmt v0.0.0-20140226030751-b84e30acd515

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Go package for parsing (and, eventually, generating)
log lines in the logfmt style.

See http://godoc.org/github.com/kr/logfmt for format, and other documentation and examples.

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1.165 cyrus-sasl 2.1.27+dfsg-1+deb10u1

1.165.1 Available under license:

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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
 */

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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
 */

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1.166 gophercloud v0.1.0

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```go
package RESOURCE

import (   
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...

type Resource struct {
}

type commonResult struct {
    gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.

type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.

type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.

type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.

type UpdateResult struct {
    commonResult
}
```
// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
resources, err := ExtractResources(r)
return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
var s struct {
    Links struct {
        Next string `json:"next"`
        Previous string `json:"previous"`
    } `json:"links"`
}
err := r.ExtractInto(&s)
if err != nil {
    return "", err
}
return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
var s struct {
    Resources []Resource `json:"resources"`
}
err := (r.(ResourcePage)).ExtractInto(&s)
return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
var s struct {
    Resource *Resource `json:"resource"`
}
err := r.ExtractInto(&s)
return s.Resource, err
}

Contributor Tutorial

================================
This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code
========================

At this point, you should have:

- [x] Identified a feature or bug fix  
- [x] Opened an Issue about it 
- [x] Located the project's service code which validates the feature or fix  
- [x] Have an OpenStack environment available to test with 

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](./.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](./.github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests
----------------------

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.
If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* [https://github.com/gophercloud/gophercloud/pull/584](https://github.com/gophercloud/gophercloud/pull/584)
* [https://github.com/gophercloud/gophercloud/pull/586](https://github.com/gophercloud/gophercloud/pull/586)
* [https://github.com/gophercloud/gophercloud/pull/587](https://github.com/gophercloud/gophercloud/pull/587)
* [https://github.com/gophercloud/gophercloud/pull/594](https://github.com/gophercloud/gophercloud/pull/594)

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

**What to Include in a Pull Request**

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

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple
commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're testing with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

### Dealing with Related Pull Requests

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
```
```
```
```
```
```
```
```
```
```
```
Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be a lot of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase all child Pull Requests based off of the parent.
The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is sometimes unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible
that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review
---------------------

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used).

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.
Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
package testing

import (
    "fmt"
    "net/http"
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/v3/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
    )

// ListResult provides a single page of RESOURCE results.
const ListResult = ``
    `{`
    `}
    ``

// GetResult provides a Get result.
const GetResult = ``
    `{`
    `}
    ``

// CreateRequest provides the input to a Create request.
const CreateRequest = ``
    `{`
    `}
    ``

// UpdateRequest provides the input to an Update request.
const UpdateRequest = ``
    `{`
    `}
    ``

// UpdateResult provides an update result.
const UpdateResult = ``
    `{`
    `}
    ``

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{ }```
// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{
}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{
}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)
        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}
// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.WriteHeader(http.StatusNoContent)
    })
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONObject(t, r, UpdateRequest)
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, UpdateResult)
    })
}

package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}
// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: [jint(201],
    })
    return
// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    return
}

package testing

import {
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
}

func TestListResources(t *testing.T) {
    th.SetupHTTP()
}
defer th.TeardownHTTP()
HandleListResourcesSuccessfully(t)

count := 0
  count++
  actual, err := resources.ExtractResources(page)
  th.AssertNoErr(t, err)
  th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
  return true, nil
})
th.AssertNoErr(t, err)
th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
  th.SetupHTTP()
  defer th.TeardownHTTP()
  HandleListResourcesSuccessfully(t)

  allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
  th.AssertNoErr(t, err)
  actual, err := resources.ExtractResources(allPages)
  th.AssertNoErr(t, err)
  th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
  th.SetupHTTP()
  defer th.TeardownHTTP()
  HandleGetResourceSuccessfully(t)

  actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
  th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
  th.SetupHTTP()
  defer th.TeardownHTTP()
  HandleCreateResourceSuccessfully(t)

  createOpts := resources.CreateOpts{
    Name: "resource two",
  }
actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleDeleteResourceSuccessfully(t)

res := resources.Delete(client.ServiceClient(), "9fe1d3")
 th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
th.SetupHTTP()
defer th.TeardownHTTP()
HandleUpdateResourceSuccessfully(t)

updateOpts := resources.UpdateOpts{
 Description: "Staging Resource",
}

actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
 return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
 return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
 return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
 return client.ServiceURL("resource", id)
}
func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

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Step 7: Congratulations!
=================================

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

/*
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/

package RESOURCE

Step 4: Acceptance Testing
=================================

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---
Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

**Step 2: Create an Issue**

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

**Reporting a Bug**

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* [https://github.com/gophercloud/gophercloud/issues/108](https://github.com/gophercloud/gophercloud/issues/108)
* [https://github.com/gophercloud/gophercloud/issues/212](https://github.com/gophercloud/gophercloud/issues/212)
* [https://github.com/gophercloud/gophercloud/issues/424](https://github.com/gophercloud/gophercloud/issues/424)
* [https://github.com/gophercloud/gophercloud/issues/588](https://github.com/gophercloud/gophercloud/issues/588)
* [https://github.com/gophercloud/gophercloud/issues/629](https://github.com/gophercloud/gophercloud/issues/629)
* [https://github.com/gophercloud/gophercloud/issues/647](https://github.com/gophercloud/gophercloud/issues/647)

**Feature Request**

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is start a discussion about whether or not the feature should be included in Gophercloud. We don't want to want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:
* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:
Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

Step 3: Code Hunting

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example:


In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package.

Meaning, we want to change:

```go
```
AdminStateUp bool `json:"admin_state_up"
Status string `json:"status"
Subnets []string `json:"subnets"
TenantID string `json:"tenant_id"
Shared bool `json:"shared"
```}
```
to look like
```
```go
type Network struct {
ID string `json:"id"
Name string `json:"name"
AdminStateUp bool `json:"admin_state_up"
Status string `json:"status"
Subnets []string `json:"subnets"
TenantID string `json:"tenant_id"
Shared bool `json:"shared"
}
```
AvailabilityZoneHints []string `json:"availability_zone_hints"
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/).

However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:
The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[string]`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is not fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that
guide, but presented in a different way. We still recommend you read it over.

* [STYLE]/docs/STYLEGUIDE.md: The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

1.167 zlib 1.2.11

1.167.1 Available under license:

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1.168 protobuf-java 3.12.0

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* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
  jar/com/google/protobuf/FieldSet.java
* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
  jar/com/google/protobuf/MapField.java
* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
  jar/com/google/protobuf/AbstractMessageLite.java
* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
  jar/com/google/protobuf/CodedInputStreamReader.java
* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
  jar/com/google/protobuf/UnknownFieldSet.java
* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
  jar/com/google/protobuf/Descriptors.java
* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
  jar/com/google/protobuf/NewInstanceSchemas.java
* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
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* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
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* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
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  jar/com/google/protobuf/RpcCallback.java
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  jar/com/google/protobuf/DescriptorMessageInfoFactory.java
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  jar/com/google/protobuf/Service.java
* /opt/ws_local/PERMITS_SQL/1058025336_1592406724.78/0/protobuf-java-3-12-0-sources-
  jar/com/google/protobuf/Service.java
1.169 go-glob v1.0.0

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1.170 apiserver-network-proxy-konnectivity-client v0.0.7

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1.172 go-metrics v0.0.0-20180917152333-f0300d1749da

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1.190 pyasn1-modules 0.2.8

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1.193 monkey-http-daemon 1.7.3

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package cloud

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)

var sentinels = []string{
    "Copyright",
    "Google",
    `Licensed under the Apache License, Version 2.0 (the "License");`,
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if path == "bigtable/cmd/cbt/cbtdoc.go" {
            // Automatically generated.
            return nil
        }
        if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
            // BSD license, which is compatible, is embedded in the file.
            return nil
        }
        if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go"
          && fi.IsDir() {
            return nil
        }
        if path == "bigtable/cmd/cbt/cbtdoc.go"
          && fi.IsDir() {
            return nil
        }
        return nil
    })
    if err != nil {
        t.Errorf("path %s, err: %v", path, err)
        return
    }
}

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package cloud

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)

var sentinels = []string{
    "Copyright",
    "Google",
    `Licensed under the Apache License, Version 2.0 (the "License");`,
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if strings.HasSuffix(path, ".pb.go") {
            // .pb.go files are generated from the proto files.
            // .proto files must have license headers.
            return nil
        }
        if path == "bigtable/cmd/cbt/cbtdoc.go" {
            // Automatically generated.
            return nil
        }
        if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
            // BSD license, which is compatible, is embedded in the file.
            return nil
        }
        if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go"
          && fi.IsDir() {
            return nil
        }
        if path == "bigtable/cmd/cbt/cbtdoc.go"
          && fi.IsDir() {
            return nil
        }
        return nil
    })
    if err != nil {
        t.Errorf("path %s, err: %v", path, err)
        return
    }
}
return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}

src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
    if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
        return nil
    }
}
return nil
}

if err != nil {
t.Fatal(err)
}

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* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/Keep.java
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* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/Property.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/CookieList.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/JSONTokener.java
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* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/CDL.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/XMLTokener.java
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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

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1.212 open-ldap 2.4.46

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1.213 golang-mock v1.4.4

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package empty_interface

type Empty interface{}

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// Code generated by MockGen. DO NOT EDIT.
// Source: input.go

// Package empty_interface is a generated GoMock package.
package empty_interface

import (
gomock "github.com/golang/mock/gomock"
)

// MockEmpty is a mock of Empty interface
type MockEmpty struct {
    ctrl   *gomock.Controller
    recorder *MockEmptyMockRecorder
}

// MockEmptyMockRecorder is the mock recorder for MockEmpty
type MockEmptyMockRecorder struct {
    mock *MockEmpty
}

// NewMockEmpty creates a new mock instance
func NewMockEmpty(ctrl *gomock.Controller) *MockEmpty {
    mock := &MockEmpty{ctrl: ctrl}
    mock.recorder = &MockEmptyMockRecorder{mock}
    return mock
}

// EXPECT returns an object that allows the caller to indicate expected use
func (m *MockEmpty) EXPECT() *MockEmptyMockRecorder {
    return m.recorder
}

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1.214 curl 7.63.0
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I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html)
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1.215 go-jose v2.2.2

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Ext headers       GL/glext.h             Khronos
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                KHR/khrplatform.h      Khronos

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Mesa 3-D graphics library

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include/GL/glext.h
include/GL/glxext.h
include/GL/wglext.h:

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

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1.224 kingpin v2.2.6

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1.225 qemu 2.4.0

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*      @(#)mman.h      8.2 (Berkeley) 1/9/95
* /

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK        0x0400 /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC       0x0800 /* page to but do not sync underlying file */
#define TARGET_FREEBSD_MAP_FLAGMASK     0x1ff7


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*/
#define TARGET_NETBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_NETBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within break */
#define TARGET_NETBSD_MAP_WIRED 0x0800 /* mlock() mapping when it is established */
#define TARGET_NETBSD_MAP_STACK 0x2000 /* allocated from memory, swap space (stack) */

#define TARGET_NETBSD_MAP_FLAGMASK 0x3ff7

/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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* SUCH DAMAGE.
#define TARGET_OPENBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND 0x0100 /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK 0x3ff7

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# Default configuration for sparc-bsd-user
/* OECD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp $ */
/* OECD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp $ */

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   */

   @(#)errno.h   8.5 (Berkeley) 1/21/94

   */

#define TARGET_EPERM 1  /* Operation not permitted */
#define TARGET_ENOENT 2  /* No such file or directory */
#define TARGET_ESRCH 3  /* No such process */
#define TARGET_EINTR 4 /* Interrupted system call */
#define TARGET_EIO 5 /* Input/output error */
#define TARGET_ENXIO 6 /* Device not configured */
#define TARGET_E2BIG 7 /* Argument list too long */
#define TARGET_ENOEXEC 8 /* Exec format error */
#define TARGET_EBADF 9 /* Bad file descriptor */
#define TARGET_ECHILD 10 /* No child processes */
#define TARGET_EDEADLK 11 /* Resource deadlock avoided */
   /* 11 was EAGAIN */
#define TARGET_ENOMEM 12 /* Cannot allocate memory */
#define TARGET_EACCES 13 /* Permission denied */
#define TARGETEFAULT 14 /* Bad address */
#define TARGET_ENOTBLK 15 /* Block device required */
#define TARGET_EBUSY 16 /* Device busy */
#define TARGET_EEXIST 17 /* File exists */
#define TARGET_EXDEV 18 /* Cross-device link */
#define TARGET_ENODEV 19 /* Operation not supported by device */
#define TARGET_ENOTDIR 20 /* Not a directory */
#define TARGET_EISDIR 21 /* Is a directory */
#define TARGET EINVAL 22 /* Invalid argument */
#define TARGET_ENFILE 23 /* Too many open files in system */
#define TARGET_EMFILE 24 /* Too many open files */
#define TARGET_ENOTTY 25 /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY 26 /* Text file busy */
#define TARGET_EFBIG 27 /* File too large */
#define TARGET_ENOSPC 28 /* Too many links */
#define TARGET_EMLINK 29 /* Read-only file system */
#define TARGET_EPipe 30 /* Broken pipe */
#define TARGET_EDOM 31 /* Numerical argument out of domain */
#define TARGET_ENOFILE 32 /* Result too large */
#define TARGET_EWouldBlock 33 /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK 34 /* Operation would block */
#define TARGET_EINPROGRESS 35 /* Operation now in progress */
#define TARGET_EALREADY 36 /* Operation already in progress */
#define TARGET_ENOTSOCK 37 /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ 38 /* Destination address required */
#define TARGET_EMSGSIZE 39 /* Message too long */
#define TARGET_EPROTOTYPE 40 /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT 41 /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 42 /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 44 /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45 /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46 /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47 /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE 48 /* Address already in use */
#define TARGET_EADDRNOTAVAIL 49 /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50 /* Network is down */
#define TARGET_ENETUNREACH 51 /* Network is unreachable */
#define TARGET_ENETRESET 52 /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53 /* Software caused connection abort */
#define TARGET_ECONNRESET 54 /* Connection reset by peer */
#define TARGET_ENOBUFS 55 /* No buffer space available */
#define TARGET_EISCONN 56 /* Socket is already connected */
#define TARGET_ENOTCONN 57 /* Socket is not connected */
#define TARGET_ENOTEMPTY 58 /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS 59 /* Too many references: can't splice */
#define TARGET_ETIMEDOUT 60 /* Operation timed out */
#define TARGET_ECONNREFUSED 61 /* Connection refused */
#define TARGET_ELOOP 62 /* Too many levels of symbolic links */
#define TARGET_ENAMEETOOLONG 63 /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN 64 /* Host is down */
#define TARGET_EHOSTUNREACH 65 /* No route to host */
#define TARGET_ENOTEMPTY 66 /* Directory not empty */

/* quotas & mush */
#define TARGET_EPROCLIM 67 /* Too many processes */
#define TARGET_EUSERS 68 /* Too many users */
#define TARGET_EDQUOT 69 /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE 70 /* Stale NFS file handle */
#define TARGET_TEREMOTE 71 /* Too many levels of remote in path */
#define TARGET_EBADRPC 72 /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 73 /* RPC version wrong */
#define TARGET_EPROGUNAVAIL 74 /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH 75 /* Program version wrong */
#define TARGET_EPROCUNAVAIL 76 /* Bad procedure for program */
#define TARGET_ENOLCK 77 /* No locks available */
#define TARGET_ENOSYS 78 /* Function not implemented */
#define TARGET_EFTYPE 79 /* Inappropriate file type or format */
#define TARGET_EAUTH 80 /* Authentication error */
#define TARGET_ENEDEAUTH 81    /**< Need authenticator */
#define TARGET_EIPSEC 82       /**< IPsec processing failure */
#define TARGET_ENOATTR 83      /**< Attribute not found */
#define TARGET_EILSEQ 84       /**< Illegal byte sequence */
#define TARGET_ENOMEDIUM 85     /**< No medium found */
#define TARGET_EMEDIUMTYPE 86   /**< Wrong Medium Type */
#define TARGET_EOVERFLOW 87     /**< Conversion overflow */
#define TARGET_ECANCELED 88     /**< Operation canceled */
#define TARGET_EIDRM 89         /**< Identifier removed */
#define TARGET_ENOMSG 90        /**< No message of desired type */
#define TARGET_ELAST 90         /**< Must be equal largest errno */

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*/

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{ TARGET_FREEBSD_NR___acl_delete_file, "__acl_delete_file", "%s("%s", %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR___chmod, "chmod", "%s("%s", %#o)", NULL, NULL },
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{ TARGET_FREEBSD_NR___clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___close, "close", "%s(%d)", NULL, NULL },

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{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
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{ TARGET_FREEBSD_NR_extattr_get_link, "extattr_get_link", "%s(%s", %d, %d, %d)\n", NULL, NULL },
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{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,%s," %d, %d)\n", NULL, NULL },
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{ TARGET_FREEBSD_NR_msget, "msgget", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", "munlock", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_open, "open", "%s("%s",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, "%s",%#x,%#o)", NULL, NULL },
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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.>
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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) year name of author
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This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the 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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

# Default configuration for i386-bsd-user
#***************************************************************************
# * Copyright (c) 2004, 2008 IBM Corporation
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# * are made available under the terms of the BSD License
# * which accompanies this distribution, and is available at
# * http://www.opensource.org/licenses/bsd-license.php
# *
# * Contributors:
ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif
include $(TOP)/make.rules

SUBDIRS=
ifeq ($(SNK_BIOSEMU_APPS), 1)
SUBDIRS += x86emu
endif
CLEANSUBDIRS = $(SUBDIRS)

all :
for subdir in $(SUBDIRS) ; do $(MAKE) -C $${subdir} || exit 1 ; done

ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif
include $(TOP)/make.rules
ROOTDIR ?= ../..
LDLINKS =
ASFLAGS = -I./include -Wa,-mregnames

#NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS = -UDEBUG -m64 -I. -I./include -I./include/x86emu \

# * IBM Corporation - initial implementation
#***************************************************************************/
ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif
include $(TOP)/make.rules

all :
for subdir in $(SUBDIRS) ; do $(MAKE) -C $${subdir} || exit 1 ; done

# Common targets for all subdirectories:
clean distclean depend:
for subdir in $(CLEANSUBDIRS) ; do $(MAKE) -C $${subdir} $@ ; done

# Default configuration for sparc64-bsd-user
#***************************************************************************/
# * Copyright (c) 2004, 2008 IBM Corporation
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# * This program and the accompanying materials
# * are made available under the terms of the BSD License
# * which accompanies this distribution, and is available at
# * http://www.opensource.org/licenses/bsd-license.php
# *
# * Contributors:
# * IBM Corporation - initial implementation
#***************************************************************************/
ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif
include $(TOP)/make.rules
ROOTDIR ?= ../..
LDLINKS =
ASFLAGS = -I./include -Wa,-mregnames

#NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS = -UDEBUG -m64 -I. -I./include -I./include/x86emu \

---

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-I$(TOP)/clients/net-snк/include -I$(ROOTDIR)/include \  
-I$(ROOTDIR)/lib/libc/include -O3 -nostdinc -fno-builtin \  
-freestanding -Wall -Wno-unused

X86EMU_OBJS= debug.o decode.o fpu.o ops2.o ops.o prim_ops.o sys.o

%.o: %.S
 $(CC) $(ASFLAGS) -c -o $@ $^  

%.o: %.c
 $(CC) $(CFLAGS) -c -o $@ $^  

all: libx86emu.a

libx86emu.a: $(X86EMU_OBJS)
 $(AR) -rc $@ $^  
 $(RANLIB) $@

clean:
 $(RM) *.o *.i *.s libx86emu.a

distclean: clean

/*      $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $      */

/*
 * System call numbers.
 *
 * created from;        OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp
 */

#define TARGET_OPENBSD_NR_syscall     0
#define TARGET_OPENBSD_NR_exit        1
#define TARGET_OPENBSD_NR_fork        2
#define TARGET_OPENBSD_NR_read        3
#define TARGET_OPENBSD_NR_write       4
#define TARGET_OPENBSD_NR_open        5
#define TARGET_OPENBSD_NR_close       6
#define TARGET_OPENBSD_NR_wait4       7
#define TARGET_OPENBSD_NR_link        9
#define TARGET_OPENBSD_NR_unlink      10
#define TARGET_OPENBSD_NR_chdir       12
#define TARGET_OPENBSD_NR_fchdir      13
#define TARGET_OPENBSD_NR_mknod       14
#define TARGET_OPENBSD_NR_chmod       15
#define TARGET_OPENBSD_NR_chown       16
#define TARGET_OPENBSD_NR_break       17
#define TARGET_OPENBSD_NR_getpid      20
#define TARGET_OPENBSD_NR_mount       21
#define TARGET_OPENBSD_NR_unmount  22
#define TARGET_OPENBSD_NR_setuid    23
#define TARGET_OPENBSD_NR_getuid    24
#define TARGET_OPENBSD_NR_geteuid   25
#define TARGET_OPENBSD_NR_ptrace    26
#define TARGET_OPENBSD_NR_recvmsg   27
#define TARGET_OPENBSD_NR_sendmsg   28
#define TARGET_OPENBSD_NR_recvfrom  29
#define TARGET_OPENBSD_NR_accept    30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access    33
#define TARGET_OPENBSD_NR_chflags   34
#define TARGET_OPENBSD_NR_fchflags  35
#define TARGET_OPENBSD_NR_sync      36
#define TARGET_OPENBSD_NR_kill      37
#define TARGET_OPENBSD_NR_getppid   39
#define TARGET_OPENBSD_NR_dup       41
#define TARGET_OPENBSD_NR_opipe     42
#define TARGET_OPENBSD_NR_getegid   43
#define TARGET_OPENBSD_NR_profil    44
#define TARGET_OPENBSD_NR_ktrace    45
#define TARGET_OPENBSD_NR_sigaction 46
#define TARGET_OPENBSD_NR_getgid    47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin  49
#define TARGET_OPENBSD_NR_setlogin  50
#define TARGET_OPENBSD_NR_acct      51
#define TARGET_OPENBSD_NR_sigpending 52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl     54
#define TARGET_OPENBSD_NR_reboot    55
#define TARGET_OPENBSD_NR_revoke    56
#define TARGET_OPENBSD_NR_symlink   57
#define TARGET_OPENBSD_NR_readlink  58
#define TARGET_OPENBSD_NR_execve    59
#define TARGET_OPENBSD_NR_umask     60
#define TARGET_OPENBSD_NR_chroot    61
#define TARGET_OPENBSD_NR_vfork     66
#define TARGET_OPENBSD_NR_sbrk      69
#define TARGET_OPENBSD_NR_sstk      70
#define TARGET_OPENBSD_NR_munmap    73
#define TARGET_OPENBSD_NR_mprotect  74
#define TARGET_OPENBSD_NR_madvise   75
#define TARGET_OPENBSD_NR_mincore   78
#define TARGET_OPENBSD_NR_getgroups 79
#define TARGET_OPENBSD_NR_setgroups 80
#define TARGET_OPENBSD_NR_getpgrp   81
#define TARGET_OPENBSD_NR_setpgid 82
#define TARGET_OPENBSD_NR_setitimer 83
#define TARGET_OPENBSD_NR_getitimer 86
#define TARGET_OPENBSD_NR_dup2 90
#define TARGET_OPENBSD_NR_fcntl 92
#define TARGET_OPENBSD_NR_select 93
#define TARGET_OPENBSD_NR_fsync 95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket 97
#define TARGET_OPENBSD_NR_connect 98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn 103
#define TARGET_OPENBSD_NR_bind 104
#define TARGET_OPENBSD_NR_setssockopt 105
#define TARGET_OPENBSD_NR_listen 106
#define TARGET_OPENBSD_NR_sigsuspend 111
#define TARGET_OPENBSD_NR_gettimeofday 116
#define TARGET_OPENBSD_NR_getrusage 117
#define TARGET_OPENBSD_NR_getsockopt 118
#define TARGET_OPENBSD_NR_readv 120
#define TARGET_OPENBSD_NR_writev 121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_fchown 123
#define TARGET_OPENBSD_NR_fchmod 124
#define TARGET_OPENBSD_NR_setreuid 126
#define TARGET_OPENBSD_NR_setregid 127
#define TARGET_OPENBSD_NR_rename 128
#define TARGET_OPENBSD_NR_flock 131
#define TARGET_OPENBSD_NR_mkfifo 132
#define TARGET_OPENBSD_NR_sendto 133
#define TARGET_OPENBSD_NR_shutdown 134
#define TARGET_OPENBSD_NR_socketpair 135
#define TARGET_OPENBSD_NR_mkdir 136
#define TARGET_OPENBSD_NR_rmdir 137
#define TARGET_OPENBSD_NR_utimes 138
#define TARGET_OPENBSD_NR_adjtime 140
#define TARGET_OPENBSD_NR_setsid 147
#define TARGET_OPENBSD_NR_quotactl 148
#define TARGET_OPENBSD_NR_rfssvc 155
#define TARGET_OPENBSD_NR_getfh 161
#define TARGET_OPENBSD_NR_sysarch 165
#define TARGET_OPENBSD_NR_pread 173
#define TARGET_OPENBSD_NR_pwrite 174
#define TARGET_OPENBSD_NR_setgid 181
#define TARGET_OPENBSD_NR_setegid 182
#define TARGET_OPENBSD_NR_seteuid 183
#define TARGET_OPENBSD_NR_lfs_bmapv 184
#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR_lfs_secglean 186
#define TARGET_OPENBSD_NR_lfs_segwait 187
#define TARGET_OPENBSD_NR_pathconf 191
#define TARGET_OPENBSD_NR_fpathconf 192
#define TARGET_OPENBSD_NR_swapctl 193
#define TARGET_OPENBSD_NR_getrlimit 194
#define TARGET_OPENBSD_NR_setrlimit 195
#define TARGET_OPENBSD_NR_getdirentries 196
#define TARGET_OPENBSD_NR_mmap 197
#define TARGET_OPENBSD_NR___syscall 198
#define TARGET_OPENBSD_NR_lseek 199
#define TARGET_OPENBSD_NR_truncate 200
#define TARGET_OPENBSD_NR___sysct 202
#define TARGET_OPENBSD_NR_mlock 203
#define TARGET_OPENBSD_NR_munlock 204
#define TARGET_OPENBSD_NR_futimes 206
#define TARGET_OPENBSD_NR_getpgid 207
#define TARGET_OPENBSD_NR_xfspicnt 208
#define TARGET_OPENBSD_NR_semget 221
#define TARGET_OPENBSD_NR_msgget 225
#define TARGET_OPENBSD_NR_msgsnd 226
#define TARGET_OPENBSD_NR_mmsg 227
#define TARGET_OPENBSD_NR_shmat 228
#define TARGET_OPENBSD_NR_shmdt 230
#define TARGET_OPENBSD_NR_clock_gettime 232
#define TARGET_OPENBSD_NR_clock_settime 233
#define TARGET_OPENBSD_NR_clock_getres 234
#define TARGET_OPENBSD_NR_nanosleep 240
#define TARGET_OPENBSD_NR_minherit 250
#define TARGET_OPENBSD_NR_ett 251
#define TARGET_OPENBSD_NR_poll 252
#define TARGET_OPENBSD_NR_issetugid 253
#define TARGET_OPENBSD_NR_lchown 254
#define TARGET_OPENBSD_NR_getsid 255
#define TARGET_OPENBSD_NR_msync 256
#define TARGET_OPENBSD_NR_pipe 263
#define TARGET_OPENBSD_NR_fhopen 264
#define TARGET_OPENBSD_NR_preadv 267
#define TARGET_OPENBSD_NR_pwritev 268
#define TARGET_OPENBSD_NR_kqueue 269
#define TARGET_OPENBSD_NR_kevent 270
#define TARGET_OPENBSD_NR_mlockall 271
#define TARGET_OPENBSD_NR_munlockall 272
#define TARGET_OPENBSD_NR_getpeerid 273
#define TARGET_OPENBSD_NR_ugetresuid 281
#define TARGET_OPENBSD_NR_setresuid 282
#define TARGET_OPENBSD_NR_ugetresgid 283
#define TARGET_OPENBSD_NR_setresgid  284
#define TARGET_OPENBSD_NR_mquery    286
#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_signalstack 288
#define TARGET_OPENBSD_NR_shmget    289
#define TARGET_OPENBSD_NR_semop     290
#define TARGET_OPENBSD_NR_stat      291
#define TARGET_OPENBSD_NR_fstat     292
#define TARGET_OPENBSD_NR_lstat     293
#define TARGET_OPENBSD_NR_fhstat    294
#define TARGET_OPENBSD_NR___semctl   295
#define TARGET_OPENBSD_NR_shmctl    296
#define TARGET_OPENBSD_NR_msgctl    297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid  299
#define TARGET_OPENBSD_NR_thrsleep  300
#define TARGET_OPENBSD_NR_thrwakeup 301
#define TARGET_OPENBSD_NR_threxit   302
#define TARGET_OPENBSD_NR_thrsigdivert 303
#define TARGET_OPENBSD_NR___getcwd  304
#define TARGET_OPENBSD_NR_adjfreq   305
#define TARGET_OPENBSD_NR_getfsstat 306
#define TARGET_OPENBSD_NR_statfs    307
#define TARGET_OPENBSD_NR_fstatfs   308
#define TARGET_OPENBSD_NR_fhstatfs  309

/* syscall flags from machine/trap.h */

/* $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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* SUCH DAMAGE.
*
 */
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400 /* on success, return to %g2 rather than npe */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800 /* use %g7 as above (deprecated) */

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
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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.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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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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# Default configuration for x86_64-bsd-user

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Whether this is true is especially significant if the work can be
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp */

/*
* System call numbers.
*
* created fromNetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp */

#define TARGET_NETBSD_NR_syscall 0
#define TARGET_NETBSD_NR_exit 1
#define TARGET_NETBSD_NR_fork 2
#define TARGET_NETBSD_NR_read 3
#define TARGET_NETBSD_NR_write 4
#define TARGET_NETBSD_NR_open 5
#define TARGET_NETBSD_NR_close 6
#define TARGET_NETBSD_NR_wait4 7
#define TARGET_NETBSD_NR_compat_43_ocreat 8
#define TARGET_NETBSD_NR_link 9
#define TARGET_NETBSD_NR_unlink 10
#define TARGET_NETBSD_NR_chdir 12
#define TARGET_NETBSD_NR_fchdir 13
#define TARGET_NETBSD_NR_mknod 14
#define TARGET_NETBSD_NR_chmod 15
#define TARGET_NETBSD_NR_chown 16
#define TARGET_NETBSD_NR_break 17
#define TARGET_NETBSD_NR_compat_43_olseek 18
#define TARGET_NETBSD_NR_getfdstat 19
#define TARGET_NETBSD_NR_getpid 20
#define TARGET_NETBSD_NR_getpid 20
#define TARGET_NETBSD_NR_geteuid 25
#define TARGET_NETBSD_NR_ptrace 26
#define TARGET_NETBSD_NR_recvmsg 27
#define TARGET_NETBSD_NR_sendmsg 28
#define TARGET_NETBSD_NR_recvfrom 29
#define TARGET_NETBSD_NR_unmount 30
#define TARGET_NETBSD_NR_getpeername 31
#define TARGET_NETBSD_NR_getsockname 32
#define TARGET_NETBSD_NR_access 33
#define TARGET_NETBSD_NR_chflags 34
#define TARGET_NETBSD_NR_fchflags 35
#define TARGET_NETBSD_NR_sync 36
#define TARGET_NETBSD_NR_kill 37
#define TARGET_NETBSD_NR_compat_43_stat43 38
#define TARGET_NETBSD_NR_getppid 39
#define TARGET_NETBSD_NR_compat_43_lstat43 40
#define TARGET_NETBSD_NR_dup 41
#define TARGET_NETBSD_NR_pipe 42
#define TARGET_NETBSD_NR_getegid 43
#define TARGET_NETBSD_NR_profil 44
#define TARGET_NETBSD_NR_ktrace 45
#define TARGET_NETBSD_NR_compat_13_sigaction13 46
#define TARGET_NETBSD_NR_getgid 47
#define TARGET_NETBSD_NR_getgid 47
#define TARGET_NETBSD_NR_compat_13_sigprocmask13 48
#define TARGET_NETBSD_NR___getlogin 49
#define TARGET_NETBSD_NR___setlogin 50
#define TARGET_NETBSD_NR_acct 51
#define TARGET_NETBSD_NR_compat_13_sigtos13 52
#define TARGET_NETBSD_NR_compat_13_sigaltstack13 53
#define TARGET_NETBSD_NR_ioctl 54
#define TARGET_NETBSD_NR_compat_12_oreboot 55
#define TARGET_NETBSD_NR_revoke 56
#define TARGET_NETBSD_NR_symlink 57
#define TARGET_NETBSD_NR_getlink 58
#define TARGET_NETBSD_NR_execve 59
#define TARGET_NETBSD_NR_umask 60
#define TARGET_NETBSD_NR_chroot 61
#define TARGET_NETBSD_NR_compat_43_fstat43 62
#define TARGET_NETBSD_NR_compat_43_ommap 63
#define TARGET_NETBSD_NR_compat_43_ommap 64
#define TARGET_NETBSD_NR_compat_12_msync 65
#define TARGET_NETBSD_NR_vfork 66
#define TARGET_NETBSD_NR_sbrk 69
#define TARGET_NETBSD_NR_sstk 70
#define TARGET_NETBSD_NR_compat_43_ommap 71
#define TARGET_NETBSD_NR_vadvise 72
#define TARGET_NETBSD_NR_munmap 73
#define TARGET_NETBSD_NR_mprotect 74
#define TARGET_NETBSD_NR_madvise 75
#define TARGET_NETBSD_NR_mincore 78
#define TARGET_NETBSD_NR_getgroups 79
#define TARGET_NETBSD_NR_setpgid 80
#define TARGET_NETBSD_NR_getpgid 81
#define TARGET_NETBSD_NR_setpgid 82
#define TARGET_NETBSD_NR_setitimer     83
#define TARGET_NETBSD_NR_compat_43_owait 84
#define TARGET_NETBSD_NR_compat_12_oswapon 85
#define TARGET_NETBSD_NR_getitimer 86
#define TARGET_NETBSD_NR_compat_43_ogethostname 87
#define TARGET_NETBSD_NR_compat_43_osethostname 88
#define TARGET_NETBSD_NR_compat_43_ogetdtablesize 89
#define TARGET_NETBSD_NR_dup2       90
#define TARGET_NETBSD_NR_fcntl       92
#define TARGET_NETBSD_NR_select      93
#define TARGET_NETBSD_NR_fsync       95
#define TARGET_NETBSD_NR_setpriority 96
#define TARGET_NETBSD_NR_compat_30_socket    97
#define TARGET_NETBSD_NR_connect     98
#define TARGET_NETBSD_NR_compat_43_oaccept 99
#define TARGET_NETBSD_NR_getpriority 100
#define TARGET_NETBSD_NR_compat_43_osend     101
#define TARGET_NETBSD_NR_compat_43_orecv     102
#define TARGET_NETBSD_NR_compat_13_sigreturn13       103
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#define TARGET_NETBSD_NR_getsockopt  118
#define TARGET_NETBSD_NR_readv       120
#define TARGET_NETBSD_NR_writev      121
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#define TARGET_NETBSD_NR_fchown      123
#define TARGET_NETBSD_NR_fchmod      124
#define TARGET_NETBSD_NR_compat_43_orecvfrom 125
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#define TARGET_NETBSD_NR_setregid    127
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#define TARGET_NETBSD_NR_compat_43_oftruncate        130
#define TARGET_NETBSD_NR_flock       131
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#define TARGET_NETBSD_NR_utimes      138
#define TARGET_NETBSD_NR_adjtime     140
#define TARGET_NETBSD_NR_compat_43_ogetpeername 141
#define TARGET_NETBSD_NR_compat_43_ogethostid 142
#define TARGET_NETBSD_NR_compat_43_osethostid 143
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#define TARGET_NETBSD_NR_compat_43_osetrlimit 145
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#define TARGET_NETBSD_NR_compat_20_statfs   157
#define TARGET_NETBSD_NR_compat_20_fstatfs   158
#define TARGET_NETBSD_NR_compat_30_getfh     161
#define TARGET_NETBSD_NR_compat_09_ogetdomainname    162
#define TARGET_NETBSD_NR_compat_09_osetdomainname    163
#define TARGET_NETBSD_NR_compat_09_ouname    164
#define TARGET_NETBSD_NR_sysarch     165
#define TARGET_NETBSD_NR_compat_10_osemsys   169
#define TARGET_NETBSD_NR_compat_10_omsgsys   170
#define TARGET_NETBSD_NR_compat_10_oshmsys   171
#define TARGET_NETBSD_NR_pread       173
#define TARGET_NETBSD_NR_pwrite      174
#define TARGET_NETBSD_NR_compat_30_ntp_gettime       175
#define TARGET_NETBSD_NR_ntp_adjtime 176
#define TARGET_NETBSD_NR_setgid      181
#define TARGET_NETBSD_NR_setegid     182
#define TARGET_NETBSD_NR_seteuid     183
#define TARGET_NETBSD_NR_lfs_bmapv   184
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#define TARGET_NETBSD_NR_compat_12_stat12    188
#define TARGET_NETBSD_NR_compat_12_fstat12   189
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#define TARGET_NETBSD_NR_pathconf    191
#define TARGET_NETBSD_NR_fpathconf   192
#define TARGET_NETBSD_NR_getrlimit   194
#define TARGET_NETBSD_NR_setrlimit   195
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#define TARGET_NETBSD_NR_mmap        197
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#define TARGET_NETBSD_NR_lseek       199
#define TARGET_NETBSD_NR_truncate    200
#define TARGET_NETBSD_NR_ftruncate   201
#define TARGET_NETBSD_NR___sysctl    202
#define TARGET_NETBSD_NR_mlock       203
#define TARGET_NETBSD_NR_munlock     204
#define TARGET_NETBSD_NR_undelete    205
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#define TARGET_NETBSD_NR_getpgid     207
#define TARGET_NETBSD_NR_reboot      208
#define TARGET_NETBSD_NR_poll        209
#define TARGET_NETBSD_NR_compat_14___semctl 220
#define TARGET_NETBSD_NR_semget     221
#define TARGET_NETBSD_NR_semop       222
#define TARGET_NETBSD_NR_semconfig   223
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#define TARGET_NETBSD_NR_semctl     224
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/*
 * System call numbers.
 *
 * created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
 * 2012-01-06 19:29:16Z jhb
 */

#define TARGET_FREEBSD_NR_syscall   0
#define TARGET_FREEBSD_NR_exit     1
#define TARGET_FREEBSD_NR_fork     2
#define TARGET_FREEBSD_NR_read     3
#define TARGET_FREEBSD_NR_write    4
#define TARGET_FREEBSD_NR_open     5
#define TARGET_FREEBSD_NR_close    6
#define TARGET_FREEBSD_NR_wait4    7
 /* 8 is old creat */
#define TARGET_FREEBSD_NR_link      9
#define TARGET_FREEBSD_NR_unlink   10
 /* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir   12
#define TARGET_FREEBSD_NR_fchdir   13
#define TARGET_FREEBSD_NR_mknod    14
#define TARGET_FREEBSD_NR_chmod    15
#define TARGET_FREEBSD_NR_chown    16
#define TARGET_FREEBSD_NR_break    17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
 /* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid    20
#define TARGET_FREEBSD_NR_mount    21
#define TARGET_FREEBSD_NRUnmount   22
#define TARGET_FREEBSD_NR_setuid    23
#define TARGET_FREEBSD_NR_getuid    24
#define TARGET_FREEBSD_NR_geteuid   25
#define TARGET_FREEBSD_NR_ptrace    26
#define TARGET_FREEBSD_NR_recvmsg   27
#define TARGET_FREEBSD_NR_sendmsg   28
#define TARGET_FREEBSD_NR_recvfrom  29
#define TARGET_FREEBSD_NR_accept   30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access   33
#define TARGET_FREEBSD_NR_chflags   34
#define TARGET_FREEBSD_NR_fchflags  35
#define TARGET_FREEBSD_NR_sync     36
#define TARGET_FREEBSD_NR_kill     37
 /* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid   39
 /* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_prof 44
#define TARGET_FREEBSD_NR_ktrace 45
/* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
/* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin 49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51
/* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot 61
/* 62 is old fstat */
/* 63 is old getkerninfo */
/* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
/* 67 is obsolete vread */
/* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
/* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_madvise 75
/* 76 is obsolete vhangup */
/* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
/* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon 85
#define TARGET_FREEBSD_NR_getitimer 86
/* 87 is old gethostname */
/* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2 90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket 97
#define TARGET_FREEBSD_NR_connect 98
/* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
/* 101 is old send */
/* 102 is old recv */
/* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind 104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen 106
/* 107 is obsolete vtimes */
/* 108 is old sigvec */
/* 109 is old sigblock */
/* 110 is old sigsetmask */
/* 111 is old sigsuspend */
/* 112 is old sigstack */
/* 113 is old recvmsg */
/* 114 is old sendmsg */
/* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_c setPage 122
#define TARGET_FREEBSD_NR_gettimeofday 123
#define TARGET_FREEBSD_NR_getchow 124
/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
/* 129 is old truncate */
/* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkmdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
/* 139 is obsolete 4.2 sigreturn */

Open Source Used In kASA v1 1311
#define TARGET_FREEBSD_NR_adjtime 140
/* 141 is old getpeername */
/* 142 is old gethostid */
/* 143 is old sethostid */
/* 144 is old getrlimit */
/* 145 is old setrlimit */
/* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
/* 149 is old quota */
/* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall 154
#define TARGET_FREEBSD_NR_nfssvc 155
/* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
#define TARGET_FREEBSD_NR_freebsd4_uname 164
#define TARGET_FREEBSD_NR_sysarch 165
#define TARGET_FREEBSD_NR_rtprio 166
#define TARGET_FREEBSD_NR_semsys 169
#define TARGET_FREEBSD_NR_msgsys 170
#define TARGET_FREEBSD_NR_shmsys 171
#define TARGET_FREEBSD_NR_freebsd6_pread 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_nmp_adjtime 176
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_seteuid 183
#define TARGET_FREEBSD_NR_stat 188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf 191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirentries 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_isseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___sysctl 202
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
/* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
/* 322 is obsolete thr_sleep */
/* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR___getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_siganction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_sigwaitinfo 346
#define TARGET_FREEBSD_NR___acl_get_file 347
```c
#define TARGET_FREEBSD_NR___acl_set_file 348
#define TARGET_FREEBSD_NR___acl_get_fd 349
#define TARGET_FREEBSD_NR___acl_set_fd 350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd 352
#define TARGET_FREEBSD_NR___acl_aclcheck_file 353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 354
#define TARGET_FREEBSD_NR_extattrctl 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
#define TARGET_FREEBSD_NR_extattr_get_file 357
#define TARGET_FREEBSD_NR_extattr_delete_file 358
#define TARGET_FREEBSD_NR_aio_waitcomplete 359
#define TARGET_FREEBSD_NR_getresuid 360
#define TARGET_FREEBSD_NR_getresgid 361
#define TARGET_FREEBSD_NR_kqueue 362
#define TARGET_FREEBSD_NR_kevent 363
#define TARGET_FREEBSD_NR_extattr_set_fd 371
#define TARGET_FREEBSD_NR_extattr_get_fd 372
#define TARGET_FREEBSD_NR_extattr_delete_fd 373
#define TARGET_FREEBSD_NR___setugid 374
#define TARGET_FREEBSD_NR_eaccess 376
#define TARGET_FREEBSD_NR_aks3_syscall 377
#define TARGET_FREEBSD_NR_nmount 378
#define TARGET_FREEBSD_NR___mac_get_proc 384
#define TARGET_FREEBSD_NR___mac_set_proc 385
#define TARGET_FREEBSD_NR___mac_get_fd 386
#define TARGET_FREEBSD_NR___mac_get_file 387
#define TARGET_FREEBSD_NR___mac_set_fd 388
#define TARGET_FREEBSD_NR___mac_set_file 389
#define TARGET_FREEBSD_NR_kenv 390
#define TARGET_FREEBSD_NR_lchflags 391
#define TARGET_FREEBSD_NR_uuuidgen 392
#define TARGET_FREEBSD_NR_sendfile 393
#define TARGET_FREEBSD_NR_mac_syscall 394
#define TARGET_FREEBSD_NR_getfsstat 395
#define TARGET_FREEBSD_NR_fstatfs 396
#define TARGET_FREEBSD_NR_fhstatfs 397
#define TARGET_FREEBSD_NR_fhstatfs 398
#define TARGET_FREEBSD_NR_ksem_close 400
#define TARGET_FREEBSD_NR_ksem_post 401
#define TARGET_FREEBSD_NR_ksem_wait 402
#define TARGET_FREEBSD_NR_ksem_trywait 403
#define TARGET_FREEBSD_NR_ksem_init 404
#define TARGET_FREEBSD_NR_ksem_open 405
#define TARGET_FREEBSD_NR_ksem_unlink 406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy 408
#define TARGET_FREEBSD_NR___mac_get_pid 409
```
#define TARGET_FREEBSD_NR___mac_get_link    410
#define TARGET_FREEBSD_NR___mac_set_link    411
#define TARGET_FREEBSD_NR___mac_getattr    412
#define TARGET_FREEBSD_NR___mac_setattr    413
#define TARGET_FREEBSD_NR___mac_deleteattr  414
#define TARGET_FREEBSD_NR___mac_execve    415
#define TARGET_FREEBSD_NR___acl_get_link    425
#define TARGET_FREEBSD_NR___acl_set_link    426
#define TARGET_FREEBSD_NR___acl_delete_link 427
#define TARGET_FREEBSD_NR___acl_aclcheck_link   428
#define TARGET_FREEBSD_NR_thr_create  430
#define TARGET_FREEBSD_NR_thr_exit  431
#define TARGET_FREEBSD_NR_thr_self  432
#define TARGET_FREEBSD_NR_thr_kill  433
#define TARGET_FREEBSD_NR___umtx_lock    434
#define TARGET_FREEBSD_NR___umtx_unlock  435
#define TARGET_FREEBSD_NR_jail_attach   436
#define TARGET_FREEBSD_NR_extattr_list_fd   437
#define TARGET_FREEBSD_NR_extattr_list_file 438
#define TARGET_FREEBSD_NR_extattr_list_link 439
#define TARGET_FREEBSD_NR_ksem_timedwait    441
#define TARGET_FREEBSD_NR_thr_suspend   442
#define TARGET_FREEBSD_NR_thr_wake  443
#define TARGET_FREEBSD_NR_kldunloadf   444
#define TARGET_FREEBSD_NR___umtx_op    453
#define TARGET_FREEBSD_NR___umtx_op     454
#define TARGET_FREEBSD_NR___umtx_op     455
#define TARGET_FREEBSD_NR___umtx_op     456
#define TARGET_FREEBSD_NR_kmq_open     457
#define TARGET_FREEBSD_NR_kmq_setattr   458
#define TARGET_FREEBSD_NR_kmq_timedreceive  459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
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David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
2 November 2007

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-- Wolfgang Denk
Index: debug.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c	7 Sep 2007 10:01:21 -0000	1.1
+++ debug.c	15 Jan 2008 13:49:25 -0000	1.3
@@ -52,7 +52,11 @@
void X86EMU_trace_regs (void)
{
    if (DEBUG_TRACE()) {
-        x86emu_dump_regs();
+        if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+            x86emu_dump_xregs();
+        } else {
+            x86emu_dump_regs();
+        }
    }
}
printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
for (i=0; i< M.x86.enc_pos; i++) {
sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
}
- printk("%-20s",buf1);
+ printk("%-20s ",buf1);
}
static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c7 Sep 2007 10:01:21 -00001.1
+++ ops2.c20 Mar 2008 15:48:34 -00001.3
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", target);
TRACE_AND_STEP();
- if (cond)
+ if (cond) {
M.x86.R_IP = (u16)target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+ }
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
+}
+
+/****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+ // perform the byte swap
+ s32 temp = reg;
+ reg = (temp & 0xFF000000) >> 24;
+ reg |= (temp & 0xFF0000) >> 8;
+ reg |= (temp & 0xFF00) << 8;
+ reg |= (temp & 0xFF) << 24;
+ return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{

Open Source Used In kASA v1 1332


/* byte swap 32 bit register */
START_OF_INSTR();
DECODE_PRINTF("BSWApH");
switch (op2) {
  case 0xc8:
    DECODE_PRINTF("EAX\n");
    M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
    break;
  case 0xc9:
    DECODE_PRINTF("ECX\n");
    M.x86.R_ECX = x86emu_bswap(M.x86.R ECX);
    break;
  case 0xca:
    DECODE_PRINTF("EDX\n");
    M.x86.R_EDX = x86emu_bswap(M.x86.R EDX);
    break;
  case 0xcb:
    DECODE_PRINTF("EBX\n");
    M.x86.R_EBX = x86emu_bswap(M.x86.R EBX);
    break;
  case 0xcc:
    DECODE_PRINTF("ESP\n");
    M.x86.R_ESP = x86emu_bswap(M.x86.R ESP);
    break;
  case 0xcd:
    DECODE_PRINTF("EBP\n");
    M.x86.R_EBP = x86emu_bswap(M.x86.R EBP);
    break;
  case 0xce:
    DECODE_PRINTF("ESI\n");
    M.x86.R_ESI = x86emu_bswap(M.x86.R ESI);
    break;
  case 0xcf:
    DECODE_PRINTF("EDI\n");
    M.x86.R_EDI = x86emu_bswap(M.x86.R EDI);
    break;
}
TRACE_AND_STEP();
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}@ -1702.14 +1763.14 @
/* 0xc5 */ x86emuOp2_illegal_op,
/* 0xc6 */ x86emuOp2_illegal_op,
/* 0xc7 */ x86emuOp2_illegal_op,
/* 0xc8 */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xc9 */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xca */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcb */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcc */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcd */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xce */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcf */ x86emuOp2_illegal_op, /* TODO: bswap */
+/* 0xc8 */ x86emuOp2_bswap,
+/* 0xc9 */ x86emuOp2_bswap,
+/* 0xca */ x86emuOp2_bswap,
+/* 0xcb */ x86emuOp2_bswap,
+/* 0xcc */ x86emuOp2_bswap,
+/* 0xcd */ x86emuOp2_bswap,
+/* 0xce */ x86emuOp2_bswap,
+/* 0xcf */ x86emuOp2_bswap,
/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,

Index: ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops.c 20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
    push_word(imm);
+    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        push_long(imm);
+    } else {
+        push_word(imm);
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}@@ -1256,8 +1260,10 @@
    if (cond) {
+        if (cond) {
+            M.x86.R_IP = target;
+        }
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    count = M.x86.R_CX;
    /* move them until (E)CX is ZERO. */
    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
} else {
    M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val1 = fetch_data_byte(M.x86.R_SI);
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(val1, val2);
            M.x86.R_CX -= 1;
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
            M.x86.R_DI += inc;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
            if (M.x86.intr & INTR_HALTED)
                break;
        }
        M.x86.R_CX -= 1;
        if (M.x86.mode & SYSMODE_32BIT_REP)
            M.x86.R_ECX -= 1;
        else
            M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
        if (M.x86.intr & INTR_HALTED)
            break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
	if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
	    /* REPE */
	    /* move them until CX is ZERO. */
	    while (M.x86.R_CX != 0) {
	        /* move them until (E)CX is ZERO. */
	        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
	            val1 = fetch_data_long(M.x86.R_SI);
	            val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
	            cmp_word((u16)val1, (u16)val2);
	            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
	                val1 = fetch_data_long(M.x86.R_SI);
	                val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
	            }
	            M.x86.R_CX -= 1;
	            if (M.x86.mode & SYSMODE_32BIT_REP)
	                M.x86.R_ECX -= 1;
	            else
	                M.x86.R_CX -= 1;
	            M.x86.R_SI += inc;
	            M.x86.R_DI += inc;
	            if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
	            if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
	            if (M.x86.intr & INTR_HALTED)
	                break;
	        }
	    }
	} otherwise
}
+ break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2741,11 +2765,16 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
 /* dont care whether REPE or REPNE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
    M.x86.R_DI += inc;
+ if (M.x86.intr & INTR_HALTED)
+    break;
} M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2783,9 +2812,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
 /* dont care whether REPE or REPNE */
- /* move them until CX is ZERO. */
- count = M.x86.R_CX;
+ /* move them until (E)CX is ZERO. */
+ count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
+    M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} while (count--)
@@ -2795,6 +2826,8 @@
    store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
} M.x86.R_DI += inc;
+ if (M.x86.intr & INTR_HALTED)
+    break;
} DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2817,11 +2850,16 @@
inc = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
   /* dont care whether REPE or REPNE */
   - /* move them until CX is ZERO. */
   - while (M.x86.R_CX != 0) {
   + /* move them until (E)CX is ZERO. */
   + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
      M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
      - M.x86.R_CX -= 1;
      + if (M.x86.mode & SYSMODE_32BIT_REP)
      +      M.x86.R_ECX -= 1;
      + else
      +      M.x86.R_CX -= 1;
      M.x86.R_SI += inc;
      + if (M.x86.intr & INTR_HALTED)
      +      break;
   }
   M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2859,9 +2897,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
   - /* move them until CX is ZERO. */
   - count = M.x86.R_CX;
   + /* move them until (E)CX is ZERO. */
   + count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
   M.x86.R_CX = 0;
   +if (M.x86.mode & SYSMODE_32BIT_REP)
   +      M.x86.R_ECX = 0;
   M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} while (count--) {
@@ -2871,6 +2911,8 @@
      M.x86.R_AX = fetch_data_word(M.x86.R_SI);
   }
   M.x86.R_SI += inc;
   + if (M.x86.intr & INTR_HALTED)
   +      break;
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -2894,26 +2936,36 @@
   inc = 1;
   if (M.x86.mode & SYSMODE_PREFIX_REPE) {
      /* REPE */
   - /* move them until CX is ZERO. */
   - while (M.x86.R_CX != 0) {

/* move them until (E)CX is ZERO. */
while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
  val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
  cmp_byte(M.x86.R_AL, val2);
  if (M.x86.mode & SYSMODE_32BIT_REP)
    M.x86.R_ECX -= 1;
  else
    M.x86.R_CX -= 1;
  M.x86.R_DI += inc;
  if (ACCESS_FLAG(F_ZF) == 0)
    break;
  if (M.x86.intr & INTR_HALTED)
    break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
  /* REPNE */
  while (M.x86.R_CX != 0) {
    val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_byte(M.x86.R_AL, val2);
    if (M.x86.intr & INTR_HALTED)
      break;
  }
  M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
  TRACE_AND_STEP();
  if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
    while (M.x86.R_CX != 0) {
      if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_long(M.x86.R_EAX, val);
      }
      M.x86.R_CX -= 1;
      M.x86.R_DI += inc;
      if (ACCESS_FLAG(F_ZF))
        break; /* zero flag set means equal */
    }
    if (M.x86.intr & INTR_HALTED)
      break;
  }
  M.x86.mode &= ~SYSMODE_PREFIX_REPE;
val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
cmp_word(M.x86.R_AX, (u16)val);
}
- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
M.x86.R_DI += inc;
if (ACCESS_FLAG(F_ZF) == 0)
break;
+ if (M.x86.intr & INTR_HALTED)
+    break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    + /* move them until (E)CX is ZERO. */
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
cmp_long(M.x86.R_EAX, val);
    @ @ -2977,10 +3034,15 @@
    val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
cmp_word(M.x86.R_AX, (u16)val);
    }
- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
M.x86.R_DI += inc;
if (ACCESS_FLAG(F_ZF))
    break; /* zero flag set means equal */
+ if (M.x86.intr & INTR_HALTED)
+    break;
    }
M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@ @ -3238,9 +3300,9 @@
DECODE_PRINTF("RET\t");
imm = fetch_word_imm();
DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
M.x86.R_SP += imm;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3254,9 +3316,9 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETu");
-RETURN_TRACE("RETu",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
DECODE_PRINTF("RETF\n");
imm = fetch_word_imm();
DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETF\n");
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF))      /* CX != 0 and !ZF */
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+        M.x86.R_ECX -= 1;
+ else
+     M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4041,8 +4106,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF))       /* CX != 0 and ZF */
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)      /* (E)CX != 0 */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4062,8 +4130,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0)
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0) /* (E)CX != 0 */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4085,8 +4156,10 @@
target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-    if (M.x86.R_CX == 0)
+    if (M.x86.R_CX == 0) {
+        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
ip = (s16)fetch_word_imm();
ip += (s16)M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
TRACE_AND_STEP();
M.x86.R_IP = (u16)ip;
DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
cs = fetch_word_imm();
DECODE_PRINTF2("%04x:", cs);
DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = ip;
M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
offset = (s8)fetch_byte_imm();
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
TRACE_AND_STEP();
M.x86.R_IP = target;
DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
DECODE_PRINTF("REPNE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPNE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
DECODE_PRINTF("REPE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
break;
case 4: /* jmp word ptr ... */
destval = fetch_data_word(destoffset);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
TRACE_AND_STEP();

M.x86.R_IP = destval;
break;
case 5: /* jmp far ptr ... */
destval = fetch_data_word(destoffset);
destval2 = fetch_data_word(destoffset + 2);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = destval;
    M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c	7 Sep 2007 10:01:21 -0000	1.1
+++ prim_ops.c	16 Jan 2008 14:18:15 -0000	1.3
@@ -1921,7 +1921,7 @@
     void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
    #ifdef __HAS_LONG_LONG__
-    s64 res = (s64)d * (s64)s;
+    s64 res = (s64)(s32)d * (s64)(s32)s;

     *res_lo = (u32)res;
     *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
     void mul_long(u32 s)
{
    #ifdef __HAS_LONG_LONG__
-    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;

     M.x86.R_EAX = (u32)res;
     M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
 }
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* in until CX is ZERO. */
-    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+    /* in until (E)CX is ZERO. */
+    u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
    M.x86.RxECX : M.x86.R_CX);

    while (count--) {
        single_in(size);
        M.x86.R_DI += inc;
M.x86.R_CX = 0;
- if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ if (M.x86.mode & SYSMODE_32BIT_REP) {
    M.x86.R_ECX = 0;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* out until CX is ZERO. */
-    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+    /* out until (E)CX is ZERO. */
+    u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
        M.x86.R_ECX : M.x86.R_CX);
    while (count--) {
        single_out(size);
        M.x86.R_SI += inc;
    }
    M.x86.R_CX = 0;
- if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ if (M.x86.mode & SYSMODE_32BIT_REP) {
    M.x86.R_ECX = 0;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
DB(if (DEBUG_IO_TRACE()))
printk("inb %#04x \n", addr);
-return inb(addr);
+return 0;
}

/***************************************************************************/
@@ -235,7 +230,7 @@
{
 DB(if (DEBUG_IO_TRACE()))
printk("inw %#04x \n", addr);
-return inw(addr);
+return 0;
}

/***************************************************************************/
@@ -250,7 +245,7 @@
{
 DB(if (DEBUG_IO_TRACE()))
printk("inl %#04x \n", addr);
-return inl(addr);
+return 0;
}

/***************************************************************************/
@@ -264,7 +259,6 @@
{
 DB(if (DEBUG_IO_TRACE()))
printk("outb %#02x -> %#04x \n", val, addr);
-outb(val, addr);
return;
}

@@ -279,7 +273,6 @@
{
 DB(if (DEBUG_IO_TRACE()))
printk("outw %#04x -> %#04x \n", val, addr);
-outw(val, addr);
return;
}

@@ -295,7 +288,6 @@
 DB(if (DEBUG_IO_TRACE()))
printk("outl %#08x -> %#04x \n", val, addr);
-outl(val, addr);
return;
}
void X86EMU_setMemBase(void *base, size_t size)
{
    M.mem_base = (int) base;
    M.mem_base = (unsigned long) base;
    M.mem_size = size;
}

RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h	7 Sep 2007 10:01:21 -0000	1.1
+++ include/x86emu/debug.h	20 Mar 2008 15:25:27 -0000	1.4
@@ -405,6 +397,6 @@
void X86EMU_setMemBase(void *base, size_t size)
{
    M.mem_base = (int) base;
    M.mem_base = (unsigned long) base;
    M.mem_size = size;
}

Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h	7 Sep 2007 10:01:21 -0000	1.1
+++ include/x86emu/debug.h	20 Mar 2008 15:25:27 -0000	1.4
@@ -40,8 +40,6 @@
    
    #define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
    #define DEBUG_TRACECALL()     (M.x86.debug & DEBUG_TRACECALL_F)
    #define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
    +#define DEBUG_TRACEJMP()       (M.x86.debug & DEBUG_TRACEJMP_F)
    +#define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
    
    #define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
    #define DEBUG_MEM_TRACE()     (M.x86.debug & DEBUG_MEM_TRACE_F)
    #define DEBUG_IO_TRACE()      (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
    
    #define DEBUG_SYSINT()        0
    #define DEBUG_TRACECALL()     0
    #define DEBUG_TRACECALLREGS() 0
    +#define DEBUG_TRACEJMP()       0
    +#define DEBUG_TRACEJMPREGS()   0
    #define DEBUG_SYS()           0
    #define DEBUG_MEM_TRACE()     0
    #define DEBUG_IO_TRACE()      0
    @ @ -169,14 +171,20 @@
    
    x86emu_dump_regs();
    
    if (DEBUG_TRACECALL())
        \n    printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
-# define RETURN_TRACE(n,u,v)                                    
+# define RETURN_TRACE(u,v,w,x,s)                                    
if (DEBUG_TRACECALLREGS())
    x86emu_dump_regs();                                     
    if (DEBUG_TRACECALL())
-    printk("%04x:%04x: %s
",u,v,n);
+    printk("%04x:%04x: RET %s %04x:%04x
",u,v,s,w,x);
+# define  JMP_TRACE(u,v,w,x,s)                                 
+   if (DEBUG_TRACEJMPREGS())
+      x86emu_dump_regs();
+   if (DEBUG_TRACEJMP())
+      printk("%04x:%04x: JMP %s%04x:%04x
", u, v, s, w, x);
#else
    # define CALL_TRACE(u,v,w,x,s)
    -# define RETURN_TRACE(n,u,v)
    +# define RETURN_TRACE(u,v,w,x,s)
    +# define  JMP_TRACE(u,v,w,x,s)
#endif
#endif

#include/x86emu/regs.h

Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
    #define SYSMODE_PREFIX_DATA     0x00000200
    #define SYSMODE_PREFIX_ADDR     0x00000400
    //phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+    //the 32bit ECX register as or the 16bit CX register as count register
+    #define SYSMODE_32BIT_REP       0x00000800
    #define  INTR_SYNCH           0x1
    #define  INTR_ASYNCH          0x2

#define SYSMODESEQUOVR_GS    |\n#define SYSMODESEQUOVR_SS    |\n#define SYSMODE_PREFIX_DATA  |\n-  SYSMODE_PREFIX_ADDR)
+  SYSMODE_PREFIX_ADDR)
+  SYSMODE_32BIT_REP)
@@ -274,9 +278,9 @@

 /*
  u32 mode;
- volatile int intr; /* mask of pending interrupts */
+ volatile int debug;
 #ifdef DEBUG
 - int debug;
 #endif
@@ -189,6 +181,8 @@
 #define DEBUG_TRACEJMP_REGS_F  0x040000
 #define DEBUG_SYS_F             (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

 void X86EMU_trace_regs(void);
 @@ -200,5 +194,4 @@
 #ifdef __cplusplus
 }                       /* End of “C” linkage for C++ */
 #endif
- #endif /* __X86EMU_X86EMU_H */

 #define DEBUG_TRACECALL_REGS_F  0x004000
 #define DEBUG_DECODE_NOPRINT_F  0x008000
 #define DEBUG_SAVE_IP_CS_F      0x010000
+#define DEBUG_TRACEJMP_F        0x020000
+#define DEBUG_TRACEJMP_REGS_F   0x040000
 #define DEBUG_SYS_F             (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)
#!/bin/bash

SVN=`which svn`
PATCH=`which patch`
DIFF_FILE=./x86emu_changes.diff

# check wether svn, patch, ... is available...
if [ ! -x $SVN ]; then
echo "subversion executable not found!"
exit -1
fi
if [ ! -x $PATCH ]; then
echo "patch executable not found!"
exit -1
fi
if [ ! -r $DIFF_FILE ]; then
echo "diff file $DIFF_FILE not found!"
exit -1
fi

# download the x86emu sources from LinuxBIOS subversion

#revision known to work...
REV=496

echo "Checking out x86emu from coreboot-v3 repository revision $REV"
$SVN co svn://coreboot.org/repository/coreboot-v3/util/x86emu -r $REV

echo "Copying files..."

mkdir -p include/x86emu

rm -rf x86emu
echo "Patching files..."

$PATCH -p0 < x86emu_changes.diff

echo "done"
exit 0

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1.226 pkix-ssh 12.1

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Description: Makes the generated copyright headers reproducible
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Open Source Used In kASA v1 1392
+++ 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.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);
+        return calendar.get(Calendar.YEAR);

+        // no instantiation

 */

        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.TimeZone;
        import java.util.TreeMap;

        /**
@@ -33,9 +33,13 @@
       
    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);
+        return calendar.get(Calendar.YEAR);

+        // no instantiation

 */
+ Date date = new Date();
+ if (System.getenv("SOURCE_DATE_EPOCH") != null) {
+     date = new Date(1000 * Long.valueOf(System.getenv("SOURCE_DATE_EPOCH")));
+ }
+
+ GregorianCalendar calendar = new GregorianCalendar(TimeZone.getTimeZone("UTC"), Locale.ENGLISH);
+ calendar.setTime(date);
+
+ int year = calendar.get(Calendar.YEAR);
+ return String.format(Locale.US, COPYRIGHT, year);
}

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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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1.235 go-openapi-spec v0.19.3

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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
  license := License{Name: "the name", URL: "the url"}
  const licenseJSON = `"name":"the name","url":"the url"`
  const licenseYAML = "name: the name\nurl: the url"

  assertSerializeJSON(t, license, licenseJSON)
  assertSerializeYAML(t, license, licenseYAML)
  assertParsesJSON(t, licenseJSON, license)
  assertParsesYAML(t, licenseYAML, license)
}

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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

package spec
// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject

type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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1.236 goprotobuf v1.24.0
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  jar/io/netty/buffer/ReadOnlyByteBufferBuf.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-
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  jar/io/netty/buffer/ByteBufProcessor.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-
  jar/io/netty/buffer/AdvancedLeakAwareByteBuf.java
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  jar/io/netty/buffer/EmptyByteBuf.java
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  jar/io/netty/buffer/ReadOnlyUnsafeDirectByteBuf.java
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/opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/PooledByteBufAllocatorMetric.java

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  jar/io/netty/buffer/PooledDirectByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/PooledSlicedByteBuf.java
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1.248 timing-framework 1.0

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
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Open Source Used in kASA v1 1646
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.

[@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 \tt12 (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>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* initialBytesToStrip = 0 (= do not strip header)
</pre>

BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)

<table>
<thead>
<tr>
<th>Length</th>
<th>Actual Content</th>
<th>---</th>
<th>Length</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
<td></td>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>

<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 \ttinitialBytesToStrip\tt. In this example, we
specified \tt2\tt, that is same with the length of the length field, to
strip the first two bytes.

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

* </pre>*

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

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

* </pre>
* 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.
* 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>
* 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>
* BEFORE DECODE (13 bytes) AFTER DECODE (13 bytes)
* +----------------+      +----------------+
* | HDR1 | Actual Content |      | HDR1 | Actual Content |
* | 0xCA | "HELLO, WORLD" |      | 0xCA | "HELLO, WORLD" |
* +----------------+      +----------------+
* </pre>
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the lengthFieldOffset and the extra
* header affects the lengthAdjustment. We also specified a non-zero
* initialBytesToStrip 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 initialBytesToSkip for initialBytesToSkip.
* 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>
* ch3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field
* 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 lengthFieldOffset and the extra
* header affects the lengthAdjustment. We also specified a non-zero
* initialBytesToStrip 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 initialBytesToSkip for initialBytesToSkip.
* 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" |
* +----------------+      +----------------+
* 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.
*  
* 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" |
* +------------------------+      +------------------------+
*  
* @see LengthFieldPrepender
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1.272 commons-codec 1.6

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```go
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
}

1.274 mongo-driver v1.1.2
1.274.1 Available under license:

BSON library for Go

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1.279 tools v0.0.0-20200717024301-6ddee64345a6

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AES in libhcrypto

Optimised ANSI C code for the Rijndael cipher (now AES)

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DES core in libhcrypto

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D3DES (V5.09) -

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lib/hcrypto/test_dh.c

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1.303 go-junit-report v0.0.0-20190106144839-af01ea7f8024

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1.305 openjdk 1.8.0u252

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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

/*
   minibz2
   libbz2.dll test program.
   by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)
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   usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]
   */
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* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
jar/com/beust/jcommander/IUsageFormatter.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
jar/com/beust/jcommander/UnixStyleUsageFormatter.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
jar/com/beust/jcommander/JCommander.java
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* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/converters/URLConverter.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-jar/com/beust/jcommander/internal/Lists.java
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  jar/com/beust/jcommander/validators/NoValidator.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
  jar/com/beust/jcommander/validators/PositiveInteger.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
  jar/com/beust/jcommander/validators/NoValueValidator.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
  jar/com/beust/jcommander/IParameterValidator.java
* /opt/cola/permits/1135840359_1613613123.36/0/jcommander-1-78-sources-2-
  jar/com/beust/jcommander/IParameterValidator2.java

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```go
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
}
```

1.336 groovy 1.8.6

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* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/ssl/OpenSslSession.java

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* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
  jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
  jar/io/netty/handler/ssl/OptionalSslHandler.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
  jar/io/netty/handler/ssl/SslCompletionEvent.java
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  jar/io/netty/handler/ssl/Conscrypt.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
  jar/io/netty/handler/ssl/Ocsp/package-info.java
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  jar/io/netty/handler/ssl/AbstractSniHandler.java
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  jar/io/netty/handler/ssl/SniCompletionEvent.java
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  jar/io/netty/handler/ssl/OcspClientHandler.java
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jar/io/netty/handler/ssl/SslHandler.java
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jar/io/netty/handler/ssl/package-info.java
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jar/io/netty/handler/ssl/util/package-info.java
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jar/io/netty/handler/stream/ChunkedWriteHandler.java
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jar/io/netty/handler/timeout/IdleState.java
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jar/io/netty/handler/stream/ChunkedNioFile.java
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jar/io/netty/handler/timeout/WriteTimeoutHandler.java
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jar/io/netty/handler/timeout/ReadTimeoutHandler.java
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jar/io/netty/handler/stream/ChunkedNioStream.java
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* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/ssl/SSLUtils.java
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* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/pcap/UDPPacket.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-jar/io/netty/handler/pcap/PcapWriteHandler.java
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  jar/io/netty/handler/address/ResolveAddressHandler.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
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* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
  jar/io/netty/handler/ssl/SslContextOption.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
  jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
* /opt/cola/permits/1153055926_1618392534.86/0/netty-handler-4-1-61-final-sources-
1.338 prometheus-common v0.9.1

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  jar/com/google/common/collection/MinMaxPriorityQueue.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
  jar/com/google/common/collection/UnmodifiableListIterator.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
  jar/com/google/common/collection/ForwardingImmutableCollection.java
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  jar/com/google/common/collection/SortedMapDifference.java
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* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/net/package-info.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/collection/SortedLists.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/base/Strings.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/base/Ascii.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java

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* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources.jar/com/google/common/collect/TopKSelector.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources.jar/com/google/common/graph/MutableNetwork.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources.jar/com/google/common/graph/Graph.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources.jar/com/google/common/graph/Graphs.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources.jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources.jar/com/google/common/graph/PredecessorsFunction.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources.jar/com/google/common/graph/ImmutableNetwork.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources.jar/com/google/common/graph/ImmutableGraph.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources.jar/com/google/common/graph/Network.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources.jar/com/google/common/graph/MutableGraph.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/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collect/ObjectArrays.java

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* or implied. See the License for the specific language governing permissions and limitations under
* the License.
* /*
/ *
* This method was 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
* 
* 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/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/util/concurrent/Striped.java

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* the License.
*/
/**
* Holder for web specializations of methods of [@code Floats]. Intended to be empty for regular
* version.
*/

Found in path(s):
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/primitives/FloatsMethodsForWeb.java
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* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/collect/SortedMultisets.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/collect/SortedMultiset.java
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jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/util/concurrent/ExecutionSequencer.java
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*/
/**
* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
* under GWT but with a slightly different signature.
*
* <p> We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler wouldn't recognize
* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/

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* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
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jar/com/google/common/collection/GeneralRange.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/AbstractRangeSet.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/ImmutableSortedMultiset.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/Count.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/SortedIterable.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/ForwardingSortedMultiset.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/SortedIterables.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/RangeSet.java

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* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/io/ReaderInputStream.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/Platform.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/CombinedFuture.java

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*/
/**
* Holder for web specializations of methods of {@code Doubles}. Intended to be empty for regular
* version.
*/

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jar/com/google/common/collect/GwtTransient.java
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* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
  jar/com/google/common/graph/DirectedGraphConnections.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
  jar/com/google/common/graph/ForwardingValueGraph.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
  jar/com/google/common/graph/AbstractGraphBuilder.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
  jar/com/google/common/graph/UndirectedGraphConnections.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
  jar/com/google/common/graph/AbstractNetwork.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
  jar/com/google/common/graph/ValueGraph.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
  jar/com/google/common/graph/EndpointPair.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
  jar/com/google/common/graph/ImmutableValueGraph.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
  jar/com/google/common/graph/ForwardingNetwork.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
  jar/com/google/common/graph/AbstractGraph.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
  jar/com/google/common/graph/EndpointPairIterator.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
  jar/com/google/common/graph/NetworkBuilder.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
  jar/com/google/common/graph/NetworkConnections.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
  jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
  jar/com/google/common/graph/GraphConstants.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
  jar/com/google/common/graph/ElementOrder.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/collect/RangeGwtSerializationDependencies.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/graph/ForwardingGraph.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/graph/EdgesConnecting.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/graph/MutableValueGraph.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/graph/StandardNetwork.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/graph/ValueGraphBuilder.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/graph/AbstractValueGraph.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/graph/StandardValueGraph.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/graph/StandardMutableValueGraph.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/graph/DirectedNetworkConnections.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/graph/GraphBuilder.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/graph/MapIteratorCache.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/graph/UndirectedNetworkConnections.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/graph/GraphConnections.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/collect/Comparators.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/graph/MapRetrievalCache.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/graph/MultiEdgesConnecting.java

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/**
* Holder for web specializations of methods of [@code Ints]. Intended to be empty for regular
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  jar/com/google/common/io/Closeables.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
  jar/com/google/common/io/ByteStreams.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
  jar/com/google/common/collect/HashBiMap.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
  jar/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
  jar/com/google/common/base/Charsets.java
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* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/collect/CompactHashing.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/graph/IncidentEdgeSet.java

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 */

/**
 * Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
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 */
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Found in path(s):
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/base/ExtraObjectsMethodsForWeb.java

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*/
/**
* Holder for web specializations of methods of [ @code Shorts]. Intended to be empty for regular
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*/

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* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/primitives/ShortsMethodsForWeb.java
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jar/com/google/common/collect/ImmutableBiMap.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collect/ImmutableMapValues.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collect/Serialization.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collect/Tables.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collect/Range.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-

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* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/html/HtmlEscapers.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/reflect/TypeResolver.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/util/concurrent/ForwardingFluentFuture.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/cache/ReferenceEntry.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/primitives/UnsignedBytes.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/util/concurrent/JdkFutureAdapters.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/annotations/GwtCompatible.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/util/concurrent/AbstractIdleService.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/io/LineProcessor.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collect/SparseImmutableTable.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collect/Cut.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/net/UrlEscapers.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/base/Platform.java
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* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/escape/CharEscaperBuilder.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/AbstractTransformFuture.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/io/PatternFilenameFilter.java

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* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/io/AppendableWriter.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/FakeTimeLimiter.java

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* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/collection/SingletonImmutableSet.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/collection/ForwardingIterator.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/collection/ForwardingMultiset.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/collection/ByFunctionOrdering.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/collection/MapDifference.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/collection/package-info.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/collection/ClassToInstanceMap.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collect/Multimap.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collect/ReverseOrdering.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collect/ForwardingConcurrentMap.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collect/ForwardingObject.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collect/HashMultimap.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collect/ForwardingListIterator.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collect/AbstractSetMultimap.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collect/TreeMultiset.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collect/MutableClassToInstanceMap.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collect/Multismaps.java
jar/com/google/common/collection/AbstractSortedSetMultimap.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/HashMultiset.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/LexicographicalOrdering.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/ComparatorOrdering.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/Maps.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/Interner.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/ForwardingList.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/ForwardingSortedMap.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/ArrayListMultimap.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/EnumBiMap.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/LinkedHashMultiset.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/RegularImmutableSet.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/ForwardingSet.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/ImmutableList.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/BiMap.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/UsingToStringOrdering.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/ForwardingMapEntry.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/Multiset.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/ForwardingMultimap.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/ForwardingSortedSet.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/ForwardingMap.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/ListMultimap.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/Iterables.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/EnumHashBiMap.java
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jar/com/google/common/collection/ExplicitOrdering.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/AbstractMapBasedMultimap.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/ForwardingCollection.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/ForwardingQueue.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/ReverseNaturalOrdering.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/AbstractMapBasedMultiset.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/ConcurrentHashMultiset.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/AbstractListMultimap.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/AbstractMapEntry.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
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* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/NullsLastOrdering.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/ImmutableSet.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/Synchronized.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collection/Iterators.java

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jar/com/google/common/math/ToDoubleRounder.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/math/BigDecimalMath.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/io/Java8Compatibility.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/hash/Java8Compatibility.java

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* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/io/ByteSource.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/hash/LongAddables.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/collections/FilteredKeyMultimap.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/collections/ImmutableRangeMap.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/escape/package-info.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/reflect/MutableTypeToInstanceMap.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/html/package-info.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/reflect/package-info.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-c
jar/com/google/common/math/PairStatsAccumulator.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/math/StatsAccumulator.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/util/concurrent/ServiceManager.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/math/SipHashFunction.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/io/Closer.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/util/concurrent/RateLimiter.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/math/Stats.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/reflect/TypeCapture.java
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jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/io/CharSink.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/io/CharSource.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
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* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
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* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
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* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/io/ByteSink.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/hash/ChecksumHashFunction.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collect/CartesianList.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
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* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/hash/LongAddable.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
jar/com/google/common/collect/ImmutableRangeSet.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-
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* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources.jar/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources.jar/com/google/common/cache/Striped64.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources.jar/com/google/common/util/concurrent/AtomicDoubleArray.java

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* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/collection/RegularImmutableMultiset.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/math/DoubleUtils.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/cache/package-info.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/base/Optional.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/base/FunctionalEquivalence.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/cache/Cache.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/base/Ticker.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/math/BigIntegerMath.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/collection/RegularContiguousSet.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/cache/ForwardingCache.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/hash/Funnel.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/base/Absent.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/base/ Enums.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/math/MathPreconditions.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/AsyncFunction.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/hash/Funnels.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/ExecutionError.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/math/IntMath.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/cache/AbstractLoadingCache.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/hash/Crc32cHashFunction.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/cache/RemovalNotification.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/cache/RemovalListener.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/hash/MessageDigestHashFunction.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/primitives/UnsignedLongs.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/collect/Queues.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/collect/BoundType.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/net/(MediaType.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/Uninterruptibles.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/cache/RemovalListener.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/net/HttpHeaders.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/cache/ForwardingLoadingCache.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/WrappingExecutorService.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/ForwardingExecutorService.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/cache/CacheLoader.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/base/PairwiseEquivalence.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/math/DoubleMath.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/hash/AbstractCompositeHashFunction.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/cache/RemovalCause.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/math/package-info.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/reflect/TypeParameter.java

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* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/base/CommonMatcher.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/base/PatternCompiler.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/base/JdkPattern.java
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* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/graph/AbstractBaseGraph.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/graph/Traverser.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/graph/BaseGraph.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/collect/ObjectCountLinkedHashMap.java
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* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/eventbus/Dispatcher.java

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*/
/**
* Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
key. Proper calls will resolve to the version in \texttt{ImmutableSortedMap}, not this dummy version.

@throws UnsupportedOperationException always

@deprecated Pass a key of type \texttt{Comparable} to use \texttt{ImmutableSortedMap\#of(Comparable, Object)}. 

*/

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* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/collect/ImmutableEnumSet.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/collect/RegularImmutableList.java
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* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/util/concurrent/ListenerFutureTask.java
* /opt/cola/permits/1120409117_1615201996.91/0/guava-30-0-android-sources-jar/com/google/common/base/Converter.java

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1.341 dns v1.0.14

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1.343 xerces-j 2.8.0

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1.344 mtl v0.0.0-20190408044501-666a987793e9

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1.345 nghttp2 1.42.0-r1

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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1.346 go-opencensus-io v0.22.0

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* /opt/ws_local/PERMITS_SQL/1072948623_1595240780.88/0/netty-resolver-4-1-51-final-sources-jar/io/netty/resolver/HostsFileEntries.java

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1.369 go-observer v0.0.0-20170622124052-a52f23424492

1.370 hikaricp-java7 2.4.13

1.371 lint v0.0.0-20190313153728-d0100b6bd8b3

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1.372 tools v0.0.0-20190920225731-5eefd052ad72

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1.373 go-mssqldb v0.0.0-20190515213511-eb9f6a1743f3

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1.374 go-humanize v1.0.0

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1.375 v2 v2.0.0

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1.376 v3 v3.3.0

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1.377 color v1.7.0

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1.378 prometheus-procfs v0.2.0

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1.379 mysql-jdbc 5.1.16

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1.383 websocketpp 0.8.1

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L. Peter Deutsch
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1.394 sax-simple-api-for-xml 2.0 3
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1.395 controller-runtime v0.6.0

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1.420 zlib 1.2.8

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

1.421 v2 v2.0.0-20190314233015-
f79a8a8ca69d

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1.422 spec v0.19.3
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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name\nurl: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertSerializeYAML(t, license, licenseYAML)
    assertParsesJSON(t, licenseJSON, license)
    assertParsesYAML(t, licenseYAML, license)
}

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject

type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

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1.423 errors v0.9.1

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1.424 mailru-easyjson v0.7.0

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1.425 u-boot 2014.07

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

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

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

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

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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

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.

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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.

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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.

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

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

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

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

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

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 combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

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

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1.429 pigz 2.4

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package cloud

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)

var sentinels = []string{
    "Copyright",
    "Google",
    "Licensed under the Apache License, Version 2.0 (the "License");",
}

func TestLicense(t *testing.T) {

t.Parallel()
err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error { if err != nil { return err }
}

if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" { return nil }
if strings.HasSuffix(path, ".pb.go") { // .pb.go files are generated from the proto files. // .proto files must have license headers. return nil }
if path == "bigtable/cmd/cbt/cbtdoc.go" { // Automatically generated. return nil }
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" { // BSD license, which is compatible, is embedded in the file. return nil }
src, err := ioutil.ReadFile(path)
if err != nil { return nil }
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels { if !bytes.Contains(src, []byte(sentinel)) { t.Errorf("%v: license header not present. want %q", path, sentinel) return nil }
}

return nil )
if err != nil { t.Fatal(err) }

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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/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/util/concurrent/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/util/concurrent/WrappingScheduledExecutorService.java
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/ForwardingListenableFuture.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/ForwardingFuture.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/collection/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/ForwardingFluentFuture.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/collection/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/MutableNetwork.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/Network.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/Graphs.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/Graph.java
* /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/util/concurrent/ExecutionSequencer.java

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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/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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*/

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/!
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.060/guava-29.0-android-sources
* jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.060/guava-29.0-android-sources
* jar/com/google/common/util/concurrent/AbstractTransformFuture.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.060/guava-29.0-android-sources
* jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.060/guava-29.0-android-sources
* jar/com/google/common/base/CaseFormat.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.060/guava-29.0-android-sources
* jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.060/guava-29.0-android-sources
* jar/com/google/common/io/PatternFilenameFilter.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.060/guava-29.0-android-sources
* jar/com/google/common/escape/CharEscaper.java

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Found in path(s):
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.060/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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* /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/util/concurrent/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/ReadableFuture.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/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/collection/EnumMultiset.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Predicates.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/io/ByteStreams.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Defaults.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/FinalizableWeakReference.java

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 */
/**
 * Outer class that exists solely to let us write [@code Partially.GwtIncompatible] instead of plain
 * [@code GwtIncompatible]. This is more accurate for [@link Futures#catching], which is available
 * under GWT but with a slightly different signature.
 *
 * @p> We can't use [@code PartiallyGwtIncompatible] because then the GWT compiler wouldn't recognize it as a [@code GwtIncompatible] annotation. And for [@code Futures.catching], we need the GWT compiler to autostrip the normal server method in order to expose the special, inherited GWT version.
 */

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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*/
/
/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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  jar/com/google/common/hash/package-info.java
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jar/com/google/common/collection/MultimapBuilder.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/collection/RegularContiguousSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/hash/Crc32cHashFunction.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/hash/Hashing.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/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/cache/Cache.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
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*/
/**
* Holder for web specializations of methods of {@code Doubles}. Intended to be empty for regular
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*/

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jar/com/google/common/collection/AbstractSequentialIterator.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/UnmodifiableListIterator.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/ForwardingListMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/RowSortedTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/ForwardingSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/ForwardingSortedSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/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/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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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ImmutableClassToInstanceMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ImmutableSortedSetFauxverideShim.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/SingletonImmutableTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/EmptyImmutableSetMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ImmutableAsList.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ComparisonChain.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ImmutableTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ImmutableSortedMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ImmutableEnumSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/RegularImmutableSortedSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ArrayTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ForwardingTable.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ComputationException.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/DiscreteDomain.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/RegularImmutableList.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/AbstractIndexedListIterator.java

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jar/com/google/common/collect/StandardTable.java
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 * Holder for web specializations of methods of [@code Ints]. Intended to be empty for regular
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/util/concurrent/Atomics.java

* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/base/Equivalence.java

* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/UncaughtExceptionHandlers.java

* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/ContiguousSet.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/collect/SortedLists.java

* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/SortedTables.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/LazyIterable.java

* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableCollections.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/ImmutableQueue.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/ImmutableSortedMap.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/ImmutableSortedMap$Builder.java

* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collect/ImmutableSortedSet$Builder.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
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* /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/collection/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-
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.

This method assumes that the collection size doesn't change while the method is running.

TODO(kevinb): support concurrently modified collections?

@param c the collection for which to return an array of elements

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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/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
* /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/ImmovableTypeToInstanceMap.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
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-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/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
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* which contained the following notice:
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/hash/Striped64.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/cache/Striped64.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/cache/LongAdder.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/util/concurrent/AtomicDoubleArray.java

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*/
/**
* Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable} key.</b> Proper calls will resolve to the version in {@link 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/collection/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/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/guava-29-0-android-sources-
jar/com/google/common/graph/ForwardingNetwork.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-
jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-
jar/com/google/common/graph/StandardValueGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-
jar/com/google/common/graph/GraphBuilder.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-
jar/com/google/common/graph/DirectedGraphConnections.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-
jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-
jar/com/google/common/graph/EndpointPairIterator.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-
jar/com/google/common/graph/StandardMutableGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-
jar/com/google/common/graph/StandardMutableNetwork.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-
jar/com/google/common/graph/AbstractNetwork.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-
jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-
jar/com/google/common/graph/ForwardingGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-
jar/com/google/common/graph/NetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-
jar/com/google/common/graph/MutableValueGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-
jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-
jar/com/google/common/graph/MapIteratorCache.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-
jar/com/google/common/graph/EndpointPair.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-
jar/com/google/common/graph/ForwardingValueGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-
jar/com/google/common/graph/ImmutableValueGraph.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-
jar/com/google/common/collect/Comparators.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-
jar/com/google/common/graph/AbstractGraphBuilder.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-
jar/com/google/common/graph/MultiEdgesConnecting.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/guava-29-0-android-sources-
jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/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/collect/IndexedImmutableSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collect/BaseImmutableMultimap.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/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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*/

/*
* 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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*
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  jar/com/google/common/collect/Hashing.java
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  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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Found in path(s):
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jar/com/google/common/collection/ForwardingSortedMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/Ordering.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/MutableClassToInstanceMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/ExplicitOrdering.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/ClassToInstanceMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/Multiset.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/Interner.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/LinkedHashMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/Sets.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/AbstractMapBasedMultiset.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/ForwardingSortedSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/ForwardingMultimap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/ForwardingObject.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/AbstractBiMap.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/HashMultiset.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-
jar/com/google/common/collection/UsingToStringOrdering.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ForwardingSet.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/RegularImmutableSet.java
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* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ForwardingMapEntry.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ForwardingListIterator.java
* /opt/ws_local/PERMITS_SQL/1073949279_1595505200.06/0/guava-29-0-android-sources-jar/com/google/common/collection/ImmutableList.java
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 * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
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1.441 grpc-gateway v1.9.5

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1.449 slf4j 1.7.28

1.450 crypto v0.0.0-20200622213623-75b288015ac9

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

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

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

e) Convey the object code using peer-to-peer transmission, provided
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jar/io/netty.handler/address/package-info.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty.handler/ssl/TrustManagerFactoryWrapper.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty.handler/address/DynamicAddressConnectHandler.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty.handler/ssl/SslMasterKeyHandler.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty.handler/ssl/KeyManagerFactoryWrapper.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
jar/io/netty.handler/ssl/OpenSslPrivateKeyMethod.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
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* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
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* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
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* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources.jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources.jar/io/netty/handler/logging/ByteBufFormat.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources.jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources.jar/io/netty/handler/ssl/SslClosedEngineException.java
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* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources.jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources.jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
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  jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
  jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
  jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
  jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
  jar/io/netty/handler/ssl/PemEncoded.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
  jar/io/netty/handler/ssl/PemValue.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
  jar/io/netty/handler/ssl/PemPrivateKey.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
  jar/io/netty/handler/ssl/DelegatingSslContext.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
  jar/io/netty/handler/ssl/Java8SslUtils.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
  jar/io/netty/handler/ssl/PemX509Certificate.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-
  jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
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  jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
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* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/pcap/PcapWriteHandler.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/pcap/PcapHeaders.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/pcap/PcapWriter.java
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  jar/io/netty/handler/logging/package-info.java
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  jar/io/netty/handler/timeout/IdleStateEvent.java
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  jar/io/netty/handler/timeout/IdleWriteHandler.java
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  jar/io/netty/handler/timeout/package-info.java
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  jar/io/netty/handler/stream/package-info.java
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  jar/io/netty/handler/timeout/package-info.java
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jar/io/netty/handler/ssl/NotSslRecordException.java
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ar/io/netty/handler/timeout/TimeoutException.java
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ar/io/netty/handler/timeout/IdleState.java
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* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-Jar/io/netty/handler/ssl/SslContextOption.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-Jar/io/netty/handler/ssl/SslHandshakeCompletionEvent.java

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* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io-netty-handler/traffic/ChannelTrafficShapingHandler.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io-netty-handler/traffic/TrafficCounter.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io-netty-handler/traffic/GlobalTrafficShapingHandler.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io-netty-handler/traffic/package-info.java
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* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/META-INF/native-image/io.netty.handler.native-image.properties
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* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/SslClientHelloHandler.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java
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* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/SniCompletionEvent.java
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* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/Conscrypt.java
* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java

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* /opt/cola/permits/1150446080_1617434857.81/0/netty-handler-4-1-63-final-sources-jar/META-INF/maven/io.netty/netty-handler/pom.xml
1.467 pflag v1.0.5

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1.468 zlib 1.2.3

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files ftp://ds.internic.net/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

/*
 /* match.s -- Pentium-optimized version of longest_match()
 * Written for zlib 1.1.2
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1.469 go-openapi-strfmt v0.20.0

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1.470 sigs.k8s.io-controller-runtime v0.6.3

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1.471 k8s.io-utils v0.0.0-20201110183641-67b214c5f920

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1.491 sigs.k8s.io-controller-runtime v0.8.3

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1.492 gqlparser v1.1.2

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1.494 bbolt v1.3.3

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Date: Fri, 6 Jun 2003 10:18:52 -0700
From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

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Regards, Juan

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MA

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Date: Thu, 5 Jun 2003 16:53:32 -0400 (EDT)
From: Mark Adamson <adamson@andrew.cmu.edu>
To: Stephen Frost <sfrost@debian.org>
Subject: Re: Mark Adamson license in OpenLDAP source
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1.505 misspell v0.3.4

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1.506 google-uuid v1.1.1

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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 ChannelHandlerContext] 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.

A `@link ChannelHandler` often needs to store some stateful information.
The simplest and recommended approach is to use member variables:

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

public class DataServerHandler extends `@link SimpleChannelInboundHandler<Message>` {
    private boolean loggedIn;

    @Override
    public void channelRead0(`@link ChannelHandlerContext` ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }
    ...
}
```

Because the handler instance has a state variable which is dedicated to
one connection, you have to create a new handler instance for each new
channel to avoid a race condition where an unauthenticated client can get
the confidential information:

```java
// Create a new handler instance per channel.
// See `@link ChannelInitializer#initChannel(Channel)`.
public class DataServerInitializer extends `@link ChannelInitializer`<`@link Channel`> {
    @Override
    public void initChannel(`@link Channel` channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}
```
* <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 AttributeKey&lt;Boolean&gt; auth = 
*         AttributeKey.valueOf(String) AttributeKey.valueOf("auth");
*     
*     @code @Override
*     public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
*         Attribute&lt;Boolean&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             attr.set(true);
*         } else (message instanceof GetDataMessage) {
*             if (Boolean.TRUE.equals(attr.get())) {
*                 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>
The `@Sharable` annotation

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

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

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

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

Additional resources worth reading

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

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Implementation-Version: 4.1.61.Final
Built-By: norman
Bnd-LastModified: 1617096680823
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
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Require-Capability: osgi.ee;filter="(&osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-2.4.1.201501161923
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package api

import (  
    "bytes"  
    "io/ioutil"  
    "os"  
    "path/filepath"  
    "regexp"  
    "testing" 
)

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)(\.|\n)* (All rights reserved.)(//|#) Use of this source code is governed by a BSD-style (//|#) license that can be found in the LICENSE file.
`)  

const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{  
    "tools.go": true, // This file requires another comment above the license.  
    "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.  
    "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual. 
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {  
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {  
        if skip[path] {  
            return nil  
        }  
        if err != nil {  
            return err  
        }

        if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {  
            return nil  
        }

        src, err := ioutil.ReadFile(path)  
        if err != nil {  
            return nil  
        }

        // Verify that the license is matched.
if !sentinel.Match(src) {
    t.Errorf("%v: license header not present", path)
    return nil
}

// Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix)) {
    t.Errorf("%v: license header not at the top", path)
} return nil
}
if err != nil {
    t.Fatal(err)
}

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* /opt/cola/permits/1127519988_1611825907.91/0/proto-google-common-protos-2-0-1.jar/google/api/billing.proto
* /opt/cola/permits/1127519988_1611825907.91/0/proto-google-common-protos-2-0-1.jar/google/logging/type/log_severity.proto
* /opt/cola/permits/1127519988_1611825907.91/0/proto-google-common-protos-2-0-1.jar/google/type/calendar_period.proto
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Found in path(s):
* /opt/cola/permits/1127519988_1611825907.91/0/proto-google-common-protos-2-0-1.jar/google/api/launch_stage.proto

1.543 goe v0.0.0-20180627143212-57f6aae5913c

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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<th>Year</th>
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.. _history-and-license:

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

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========================

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

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

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

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Mersenne Twister

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

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937.ar.html. The following are the verbatim comments from the original code::

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

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

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Sockets
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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
http://www.ietf.org/rfc/rfc1321.txt
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The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

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

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

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Modified by Jack Jansen, CWI, July 1995:
- Use binascl module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

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

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test_epoll
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 * by Eric Young (eay@cryptsoft.com).
 * The implementation was written so as to conform with Netscape SSL.
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jloup@gzip.org      madler@alumni.caltech.edu

.. _history-and-license:

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

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=======================

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to
form the BeOpen PythonLabs team. In October of the same year, the PythonLabs
team moved to Digital Creations (now Zope Corporation; see
http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see
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sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org/ for the Open
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Mersenne Twister
----------------

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::
A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

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

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
-------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
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L. Peter Deutsch
ghost@aladdin.com
Independent implementation of MD5 (RFC 1321).

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

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

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

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

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

Asynchronous socket services

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

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

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test_epoll
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text format.
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* Detect unordered_map in stl_hash.m4.

Brian Olson <brianolson@google.com>
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Michael Poole <mdpoole@troilus.org>
* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
* Added generation of field number constants.

Wink Saville <wink@google.com>
* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>
* Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>
* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>
* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>
* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead().

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* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris.

Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xLC compiler build issues
* Added atomicops for AIX (POWER)
1.555 crypt v0.0.3-0.20200106085610-5cbbc8cc4026c

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1.562 genproto v0.0.0-20200806141610-86f49bd18e98

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@page
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^L

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Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

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

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Files: progs/tset.c ncurses/tinfo/read_termcap.c
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-- vile: txtmode file-encoding=utf-8
Upstream source https://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

1.570 urllib3 1.26.4
1.570.1 Available under license :
  # Contributions to the urllib3 project

    ## Creator & Maintainer

    * Andrey Petrov <andrey.petrov@shazow.net>

    ## Contributors

    In chronological order:

    * victor.vde <http://code.google.com/u/victor.vde/>
    * HTTPS patch (which inspired HTTPSConnectionPool)

    * erikcederstrand <http://code.google.com/u/erikcederstrand/>
    * NTLM-authenticated HTTPSConnectionPool
    * Basic-authenticated HTTPSCConnectionPool (merged into make_headers)

    * niphlod <niphlod@gmail.com>
    * Client-verified SSL certificates for HTTPSCConnectionPool
    * Response gzip and deflate encoding support
    * Better unicode support for filepost using StringIO buffers

    * btoconnor <brian@btoconnor.net>
    * Non-multipart encoding for POST requests

    * p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
    * Code review, PEP8 compliance, benchmark fix
* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravelosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL
* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
* Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
* Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist
* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yyg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vending

* Wolfgang Richter <wolfgang.richter@gmail.com>
  * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
  * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6
* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
  * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
  * Remove a spurious TypeError from the exception chain inside
    HTTPConnectionPool._make_request(), also for BaseExceptions.

* Jorge Lopez Silva <https://github.com/jalopezsilva>
  * Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>
  * Allow cadata parameter to be passed to underlying ``SSLContext.load_verify_locations()``.

* Keichi Kobayashi <abok.1k@gmail.com>
  * Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
  * DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
  * Test improvements

* Chris Olufson <tycarac@gmail.com>
  * Fix for connection not being released on HTTP redirect and response not preloaded

* [Bastiaan Bakker] <https://github.com/bastiaanb>
  * Support for logging session keys via environment variable ``SSLKEYLOGFILE`` (Python 3.8+)

* [Ezzeri Esa] <https://github.com/savarin>
  * Ports and extends on types from typeshed

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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1.578 x-sys v0.0.0-20201112073958-5cba982894dd

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1.579 golang-protobuf-extensions v1.0.1

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1.581 pprof v0.0.0-20200229191704-1ebb73c60ed3

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jar/io/netty/handler/proxy/Socks5ProxyHandler.java
* /opt/cola/permits/1153055919_1618392508.54/0/netty-handler-proxy-4-1-61-final-sources-
jar/io/netty/handler/proxy/package-info.java
* /opt/cola/permits/1153055919_1618392508.54/0/netty-handler-proxy-4-1-61-final-sources-
jar/io/netty/handler/proxy/ProxyHandler.java
* /opt/cola/permits/1153055919_1618392508.54/0/netty-handler-proxy-4-1-61-final-sources-
jar/io/netty/handler/proxy/ProxyConnectException.java
* /opt/cola/permits/1153055919_1618392508.54/0/netty-handler-proxy-4-1-61-final-sources-
jar/io/netty/handler/proxy/Socks4ProxyHandler.java

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Found in path(s):
* /opt/cola/permits/1153055919_1618392508.54/0/netty-handler-proxy-4-1-61-final-sources-jar/META-INF/maven/io.netty/netty-handler-proxy/pom.xml

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1.610 xz v0.5.6
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`

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package main

import {
    "bufio"
    "bytes"
    "flag"
    "fmt"
```go
"io"
"log"
"os"
"path/filepath"
"strings"
}

const crUsageString = `xb copyright [options] <path>....

The xb copyright command adds a copyright remark to all go files below path.

- h prints this message and exits
```

func crUsage(w io.Writer) {
    fmt.Fprintf(w, crUsageString)
}

const copyrightText = `Copyright 2014-2019 Ulrich Kunitz. All rights reserved.
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```

func goComment(text string) string {
    buf := new(bytes.Buffer)
    scanner := bufio.NewScanner(strings.NewReader(text))
    var err error
    for scanner.Scan() {
        s := strings.TrimSpace(scanner.Text())
        if len(s) == 0 {
            continue
        } else if err = fmt.Fprintf(buf, "//", s); err != nil {
            panic(err)
        }
    }
    if err = scanner.Err(); err != nil {
        panic(err)
    }
    if _, err = fmt.Fprintf(buf, "//", s); err != nil {
        panic(err)
    }
    return buf.String()
}

var goCopyright = goComment(copyrightText)
```
func addCopyright(path string) (err error) {
    log.Printf("adding copyright to %s", path)
    src, err := os.Open(path)
    if err != nil {
        return err
    }
    defer func() {
        cerr := src.Close()
        if cerr != nil && err == nil {
            err = cerr
        }
    }()
    newPath := path + ".new"
    dst, err := os.Create(newPath)
    if err != nil {
        return err
    }
    defer func() {
        cerr := dst.Close()
        if cerr != nil && err == nil {
            err = cerr
        }
    }()
    out := bufio.NewWriter(dst)
    fmt.Fprintf(out, goCopyright)
    scanner := bufio.NewScanner(src)
    line := 0
    del := false
    for scanner.Scan() {
        line++
        txt := scanner.Text()
        if line == 1 && strings.Contains(txt, "Copyright") {
            del = true
            continue
        }
        if del {
            s := strings.TrimSpace(txt)
            if len(s) == 0 {
                del = false
            }
            continue
        }
        fmt.Fprintf(out, txt)
    }
    if err = scanner.Err(); err != nil {
        return err
    }
    if err = out.Flush(); err != nil {

    }
return
}
err = os.Rename(newPath, path)
return

func walkCopyrights(path string, info os.FileInfo, err error) error {
if err != nil {
return err
}
if info.IsDir() {
return nil
}
if !strings.HasSuffix(info.Name(), ".go") {
return nil
}
return addCopyright(path)
}

func copyright() {
cmdName := os.Args[0]
log.SetPrefix(fmt.Sprintf("%s: ", cmdName))
log.SetFlags(0)

flag.CommandLine = flag.NewFlagSet(cmdName, flag.ExitOnError)
flag.Usage = func() { crUsage(os.Stderr); os.Exit(1) }
help := flag.Bool("h", false, "")

flag.Parse()

if *help {
crUsage(os.Stdout)
os.Exit(0)
}

for _, path := range flag.Args() {
fi, err := os.Stat(path)
if err != nil {
log.Print(err)
continue
}
if !fi.IsDir() {
log.Printf("%s is not a directory", path)
continue
}
if err = filepath.Walk(path, walkCopyrights); err != nil {
log.Fatalf("%s error %s", path, err)
}
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**1.611 glibc 2.28-10**

**1.611.1 Available under license:**

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}
This is a small tool that updates the license header for Uber's open source Golang files.

## Installation

```
go get go.uber.org/tools/update-license
```

## Usage

```
update-license go_files...
```

## Further Work

* Support more licenses by name (MIT, Apache 2.0, etc), file path, url (http GET)
* Support custom owner (not just "Uber Technologies, Inc.")
* Support more languages than go (cover go, java, js, py to start, along with LICENSE, LICENSE.txt)
* Talk about removing custom logic for header comments (ie `@generated`, `Code generated by`), it probably makes more sense just to put the license at the top
* Better detection support for existing licenses so they can be removed
* Verbose, dry run support

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import (  
  "testing"
)

func TestUpdateData(t *testing.T) {  
  tests := []struct {  
    input   string  
    output  string  
    year    int  
    license string  
  }{  
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for _, test := range tests {
runTestUpdateData(t, test.input, test.output, test.year, test.license)
}

func runTestUpdateData(t *testing.T, input string, output string, year int, license string) {
actualOutput := string(
updateData([]byte(input), year, license, "Uber Technologies, Inc."),
)
if output != actualOutput {
t.Errorf("unexpected:\n%s\nactual:\n%s", output, actualOutput)
}
}

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1.637 golang-protobuf-extensions v1.0.2-0.20181231171920-c182affec369

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1.650 ivykis 0.42.4-r0

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in src/lib/gssapi, including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
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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1.652 utils v0.0.0-20210111153108-fddb29f9d009

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Summary: Python module for TRE
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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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) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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1.687 jctools-core 3.0.0

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Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Java Concurrency Tools Core Library
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* /opt/cola/permits/1150446048_1617434851.16/0/netty-buffer-4-1-63-final-sources-jar/io/netty/buffer/search/MultiSearchProcessorFactory.java
* /opt/cola/permits/1150446048_1617434851.16/0/netty-buffer-4-1-63-final-sources-jar/io/netty/buffer/search/AbstractMultiSearchProcessorFactory.java

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* /opt/cola/permits/1150446048_1617434851.16/0/netty-buffer-4-1-63-final-sources-
  jar/io/netty/buffer/UnpooledUnsafeNoCleanerDirectByteBuf.java
* /opt/cola/permits/1150446048_1617434851.16/0/netty-buffer-4-1-63-final-sources-
  jar/io/netty/buffer/PooledDuplicatedByteBuf.java
* /opt/cola/permits/1150446048_1617434851.16/0/netty-buffer-4-1-63-final-sources-
  jar/io/netty/buffer/SimpleLeakAwareCompositeByteBuf.java
* /opt/cola/permits/1150446048_1617434851.16/0/netty-buffer-4-1-63-final-sources-
  jar/io/netty/buffer/AbstractPooledDerivedByteBuf.java
* /opt/cola/permits/1150446048_1617434851.16/0/netty-buffer-4-1-63-final-sources-
  jar/io/netty/buffer/PooledSlicedByteBuf.java
* /opt/cola/permits/1150446048_1617434851.16/0/netty-buffer-4-1-63-final-sources-
  jar/io/netty/buffer/WrappedUnpooledUnsafeDirectByteBuf.java
* /opt/cola/permits/1150446048_1617434851.16/0/netty-buffer-4-1-63-final-sources-
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jar/io/netty/buffer/EmptyByteBuf.java  
* /opt/cola/permits/1150446048_1617434851.16/0/netty-buffer-4-1-63-final-sources-
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* /opt/cola/permits/1150446048_1617434851.16/0/netty-buffer-4-1-63-final-sources-jar/io/netty/buffer/ByteBufAllocatorMetric.java
* /opt/cola/permits/1150446048_1617434851.16/0/netty-buffer-4-1-63-final-sources-jar/io/netty/buffer/PooledByteBufAllocatorMetric.java

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from setuptools import setup

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
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1.698 testing_frameworks v0.1.1

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1.700 go-control-plane v0.9.4

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Clockwork - a scheduler process to replace cron

Cron is non-ideal for running scheduled application tasks, especially in an app deployed to multiple machines. [More details.](http://adam.heroku.com/past/2010/4/13/rethinking_cron/)
Clockwork is a lightweight, long-running Ruby process which sits alongside your web processes (Mongrel/Thin) and your worker processes (DJ/Resque/Minion/Stalker) to schedule recurring work at particular times or dates. For example, refreshing feeds on an hourly basis, or send reminder emails on a nightly basis, or generating invoices once a month on the 1st.

Example
-------

Create schedule.rb:

```ruby
require 'clockwork'
include Clockwork

every('10s') { puts 'every 10 seconds' }
every('3m') { puts 'every 3 minutes' }
every('1h') { puts 'once an hour' }

every('1d', :at => '00:00') { puts 'every night at midnight' }
```

Run it with the clockwork binary:

```
$ clockwork schedule.rb
```

Or run directly with Ruby:

```
$ ruby -r schedule -e Clockwork.run
```

Use with queueing

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

Clockwork only makes sense as a place to schedule work to be done, not to do the work. It avoids locking by running as a single process, but this makes it impossible to parallelize. For doing the work, you should be using a job queueing system, such as [Delayed Job](http://www.therailsway.com/2009/7/22/do-it-later-with-delayed-job), [Beanstalk/Stalker](http://adam.heroku.com/past/2010/4/24/beanstalk_a_simple_and_fast_queueing_backend/), [RabbitMQ/Minion](http://adamblog.heroku.com/past/2009/9/28/background_jobs_with_rabbitmq_and_minion/), or [Resque](http://github.com/blog/542-introducing-resque). This design allows a simple scheduler process with no locks, but also offers near infinite horizontal scalability.

For example, if you're using Beanstalk/Staker:

```ruby
require 'clockwork'
include Clockwork
```
require 'stalker'
include Stalker

every('1h') { enqueue('feeds.refresh') }
every('1d', :at => '01:30') { enqueue('reminders.send') }

Using a queueing system which doesn't require that your full application be loaded is preferable, because the scheduler process can keep a tiny memory footprint. If you're using DJ or Resque, however, you can go ahead and load your full application environment. For example, with DJ/Rails:

require 'config/boot'
require 'config/environment'

require 'clockwork'
include Clockwork

every('1h') { Feed.send_later(:refresh) }
every('1d', :at => '01:30') { Reminder.send_later(:send_reminders) }

In production
-------------

Only one scheduler process should ever be running across your whole application deployment. For example, if your app is running on three VPS machines (two app servers and one database), your app machines might have the following process topography:

* Machine 1: 3 web (thin start), 3 workers (rake jobs:work), 1 scheduler (clockwork schedule.rb)
* Machine 2: 3 web (thin start), 3 workers (rake jobs:work)

You should use Monit, God, Upstart, or Inittab to keep your scheduler process running the same way you keep your web and workers running.

Meta
----

Created by Adam Wiggins

Inspired by [rufus-scheduler](http://rufus.rubyforge.org/rufus-scheduler/) and [http://github.com/bvandenbos/resque-scheduler](resque-scheduler)

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http://github.com/adamwiggins/clockwork

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1.708 mock v1.3.1

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package empty_interface

type Empty interface{}
// This is a mock copyright header.
//
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// sed do eiusmod tempor incididunt ut labore et dolore magna
// aliqua. Velit ut tortor pretium viverra suspendisse potenti.
//

// Code generated by MockGen. DO NOT EDIT.
// Source: input.go

// Package empty_interface is a generated GoMock package.
package empty_interface

import (
import "github.com/golang/mock/gomock"

// MockEmpty is a mock of Empty interface
type MockEmpty struct {
    ctrl *gomock.Controller
    recorder *MockEmptyMockRecorder
}

// MockEmptyMockRecorder is the mock recorder for MockEmpty
type MockEmptyMockRecorder struct {
    mock *MockEmpty
}

// NewMockEmpty creates a new mock instance
func NewMockEmpty(ctrl *gomock.Controller) *MockEmpty {
    mock := &MockEmpty{ctrl: ctrl}
    mock.recorder = &MockEmptyMockRecorder{mock}
    return mock
}

// EXPECT returns an object that allows the caller to indicate expected use
func (m *MockEmpty) EXPECT() *MockEmptyMockRecorder {
    return m.recorder
}

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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 * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
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 * If *.com is in the known suffixes list will not be allowed to match.
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1.735 go-cmp v0.5.0

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1.736 goleak v1.1.10
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1.737 bouncycastle-fips 1.0.2
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1.738 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

package license

import 

// LicenseProps holds the properties of a License object

package license

import 

// LicenseProps holds the properties of a License object
type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"
}

// UnmarshalJSON hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/websocket/WebSocket08FrameDecoder.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/macos/DnsResolver.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2EmptyDataFrameConnectionDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2ControlFrameLimitEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http2/Http2SettingsReceivedConsumer.java

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jar/io/netty/handler/codecs/http2/HpackHuffmanEncoder.java
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jar/io/netty/handler/codecs/http2/HpackDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codecs/http2/HpackStaticTable.java
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jar/io/netty/handler/codecs/http2/HpackEncoder.java
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jar/io/netty/handler/codecs/http2/HpackDynamicTable.java
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jar/io/netty/handler/codecs/http2/HpackHeaderField.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/DefaultAuthoritativeDnsServerCache.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/NameServerComparator.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/resolver/dns/DefaultDnsCnameCache.java
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- /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/mqtt/MqttConnectMessage.java
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- /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/socksx/v4/Socks4ServerEncoder.java
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- /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/socksx/v4/Socks4ProxyHandler.java
jar/io/netty/channel epollNativeDatagramPacketArray.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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jar/io/netty/handler/codec/mqtt/MqttMessageIdVariableHeader.java
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jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandshaker.java
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jar/io/netty/handler/codec/compression/FastLz.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/example/http/websocketx/client/WebSocketClient.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/example/spdy/client/SpdyClientStreamIdHandler.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codecs/haproxy/HAPermissionsMessage.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codecs/haproxy/HAProxyMessage.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/channel/udt/nio/NioUdtMessageConnectorChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/handler/codec/sctp/SctpInboundByteStreamHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/handler/traffic/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/handler/traffic/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/handler/traffic/TrafficCounter.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/handler/traffic/UdtChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/handler/traffic/UdtByteAcceptorChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/handler/traffic/UdtByteConnectorChannel.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/channel/DefaultAddressedEnvelope.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/memcache/LastMemcacheContent.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdySynReplyFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/DefaultByteBufHolder.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/spdy/SpdyHttpDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/buffer/WrappedByteBuf.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/util/concurrent/AbstractFuture.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/util/concurrent/ImmediateExecutor.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/channel/ConnectTimeoutException.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/spdy/SpdyHeaders.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources.jar/io/netty/handler/codec/spdy/SpdyHeaders.java
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jar/io/netty/handler/codec/memcache/MemcacheContent.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1.63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1.63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1.63-final-sources-
jar/io/netty/channel/DefaultChannelId.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1.63-final-sources-
jar/io/netty/channel/epoll/Native.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1.63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1.63-final-sources-
jar/io/netty/handler/codec/memcache/package-info.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1.63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1.63-final-sources-
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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].
* 
* [link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its
* subtypes:
* 
* [link ChannelInboundHandler] to handle inbound I/O events, and
* [link ChannelOutboundHandler] to handle outbound I/O operations.
* 
* Alternatively, the following adapter classes are provided for your convenience:
* 
* [link ChannelInboundHandlerAdapter] to handle inbound I/O events,
* [link ChannelOutboundHandlerAdapter] to handle outbound I/O operations,
* [link ChannelDuplexHandler] to handle both inbound and outbound events.
* 
* For more information, please refer to the documentation of each subtype.
* 
* The context object
* 
* A [link ChannelHandler] is provided with a [link ChannelHandlerContext]
* object. A [link ChannelHandler] is supposed to interact with the
* [link ChannelPipeline] it belongs to via a context object. Using the
* context object, the [link ChannelHandler] can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using [link AttributeKey]s) which is specific to the handler.
* 
* State management
A `ChannelHandler` often needs to store some stateful information. The simplest and recommended approach is to use member variables:

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

public class DataServerHandler extends SimpleChannelInboundHandler&lt;Message&gt; {

    private boolean loggedIn;

    @Override
    public void channelRead0(ChannelHandlerContext ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }
}
```

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 an unauthenticated client can get the confidential information:

```java
// Create a new handler instance per channel.
// See ChannelInitializer#initChannel(Channel).
public class DataServerInitializer extends ChannelInitializer&lt;Channel&gt; {

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

### Using AttributeKeys

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]<Message> { 
*    private final [@link AttributeKey]@link Boolean auth = 
*    AttributeKey.valueOf("auth");
* }
*
* {@code @Override}
* public void channelRead([@link ChannelHandlerContext] ctx, Message message) {
*    Attribute<Boolean> attr = ctx.attr(auth);
*    if (message instanceof LoginMessage) {
*        authenticate((LoginMessage) o);
*        attr.set(true);
*    } else (message instanceof GetDataMessage) {
*        if (Boolean.TRUE.equals(attr.get())) {
*            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]<@link Channel> { 
*    private static final DataServerHandler SHARED = new DataServerHandler();
*    {
*        @Override
*        public void initChannel([@link Channel] channel) {
*            channel.pipeline().addLast("handler", SHARED);
*        }
*    }
* }<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.
If a `@link ChannelHandler` is annotated with the `@code @Sharable` annotation, it means you can create an instance of the handler just once and add it to one or more `@link ChannelPipeline`'s multiple times without a race condition.

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

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

**Additional resources worth reading**

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

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```
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/internal/tcnative/Buffer.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1-63-final-sources.jar/io/netty/handler/codec/DefaultHeadersImpl.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1-63-final-sources.jar/io/netty/handler/codec/http2/StreamByteDistributor.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1-63-final-sources.jar/io/netty/handler/codec/http2/AbstractInboundHttp2ToHttpAdapterBuilder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1-63-final-sources.jar/io/netty/util/internal/MathUtil.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1-63-final-sources.jar/io/netty/handler/codec/Http2PromisedRequestVerifier.java
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jar/io/netty/util/collection/CharCollections.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2Connection.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2ConnectionDecoder.java
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jar/io/netty/example/http2/helloworld/client/Http2ClientInitializer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameListener.java
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jar/io/netty/handler/codec/http2/Http2ServerUpgradeCodec.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="https://linux.die.net//man/7/tcp">TCP_QUICKACK</a>
 * for more details.
 */

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/logging/LocationAwareSlf4JLogger.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 Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/

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jar/io/netty/handler/codec/spdy/SpdyHttpResponseStreamIdHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http/DefaultHttpContent.java
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jar/io/netty/handler/codec/socks/SocksCmdResponseDecoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
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jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/rtsp/RtspObjectEncoder.java
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jar/io/netty/handler/codec/http/websocketx/PingWebSocketFrame.java
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jar/io/netty/channel/FixedRecvByteBufAllocator.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/multipart/HttpPostMultipartRequestDecoder.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/buffer/SwappedByteBuf.java
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*/
*/
* Written by Robert Harder and released to the public domain, as explained at
* https://creativecommons.org/licenses/publicdomain
*/
/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* <a href="https://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpscGrowableArrayQueue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/AbstractEntry.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1-63-final-sources/jar/io/netty/buffer/WrappedUnpooledUnsafeDirectByteBuf.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1-63-final-sources/jar/io/netty/channel/PreferHeapByteBufAllocator.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1-63-final-sources/jar/io/netty/channel/kqueue/AcceptFilter.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1-63-final-sources/jar/io/netty/channel/kqueue/Native.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1-63-final-sources/jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1-63-final-sources/jar/io/netty/handler/ssl/PemValue.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1-63-final-sources/jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1-63-final-sources/jar/io/netty/handler/codec/string/LineEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1-63-final-sources/jar/io/netty/buffer/AdvancedLeakAwareCompositeByteBuf.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1-63-final-sources/jar/io/netty/util/internal/OutOfDirectMemoryError.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1-63-final-sources/jar/io/netty/util/concurrent/EventExecutorChooserFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1-63-final-sources/jar/io/netty/channel/DefaultSelectStrategyFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1-63-final-sources/jar/io/netty/handler/channel/DefaultSelectStrategyFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1-63-final-sources/jar/io/netty/buffer/AbstractUnpooledSlicedByteBuf.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1-63-final-sources/jar/io/netty/handler/channel/DefaultSelectStrategyFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1-63-final-sources/jar/io/netty/buffer/AdvancedLeakAwareCompositeByteBuf.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1-63-final-sources/jar/io/netty/util/internal/OutOfDirectMemoryError.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1-63-final-sources/jar/io/netty/handler/channel/DefaultSelectStrategyFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1-63-final-sources/jar/io/netty/handler/channel/DefaultSelectStrategyFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1-63-final-sources/jar/io/netty/handler/codec/string/LineEncoder.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4.1-63-final-sources
java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/Http2MultiplexCodec.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2WindowUpdateFrame.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/util/internal/SocketUtils.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/epoll/LinuxSocket.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/kqueue/KQueueSynchronouslyReferencedJniMethods.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/dns/DnsOptPseudoRecord.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/kqueue/KQueueServerDomainSocketChannel.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/kqueue/KQueueServerSocketChannelConfig.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsOptEcsRecord.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/DefaultSelectStrategy.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/codec/dns/DefaultDnsOptEcsRecord.java

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  jar/io/netty/util/internal/logging/JdkLogger.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/util/internal/logging/CommonsLogger.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/util/internal/logging/Log4JLogger.java
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jar/io/netty/handler/codec/http/HttpMessageDecoderResult.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/unix/SegmentedDatagramPacket.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslContextOption.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/channel/epoll/SegmentedDatagramPacket.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionId.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionCache.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/handler/ssl/SslContextOption.java
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*/
/*
/**
 * A decoder that splits the received [`ByteBuf`]'s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 * *<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>*
 * lengthFieldOffset   = <b>0</b>
 * lengthFieldLength   = <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 |
 * +--------+----------------+      +----------------+
 */
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.

```
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" |
+--------+----------------+      +--------+----------------+
```

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" |
+----------+----------+----------------+      +----------+----------+----------------+
```

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.

```
<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" |
+----------+----------+----------------+      +----------+----------+----------------+
```

3 bytes length field at the beginning of 5 bytes header, do not strip header
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.

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

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

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

```plaintext
* 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>
```

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.

```java
* <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
*/

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/cors/CorsHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/codec/http/cors/CorsConfig.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/example/http/cors/OkResponseHandler.java

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  jar/io/netty/handler/codec/redis/FixedRedisMessagePool.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/example/http2/helloworld/multiplex/server/HelloWorldHttp2Handler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/handler/codec/redis/ErrorRedisMessage.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/handler/codec/redis/RedisCodecUtil.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/handler/codec/redis/LastBulkStringRedisContent.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/handler/codec/redis/RedisCodecException.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/handler/codec/redis/RedisArrayAggregator.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/handler/codec/redis/DefaultLastBulkStringRedisContent.java
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  jar/io/netty/handler/codec/redis/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/handler/codec/redis/RedisMessagePool.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/handler/codec/redis/RedisClient.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
  jar/io/netty/example/http2/helloworld/frame/server/Http2OrHttpHandler.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/search/BitapSearchProcessorFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/search/SearchProcessorFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/search/KmpSearchProcessorFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/http2/helloworld/frame/client/Http2ClientFrameInitializer.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/http2/helloworld/frame/client/Http2ClientStreamFrameResponseHandler.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/search/AbstractMultiSearchProcessorFactory.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/search/SearchProcessor.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/buffer/search/AhoCorasicSearchProcessorFactory.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
jar/io/netty/example/http2/helloworld/frame/client/Http2FrameClient.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/pcap/package-info.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/pcap/EthernetPacket.java
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* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/pcap/TCPPacket.java
* /opt/cola/permits/1150446063_1618916486.95/0/netty-all-4-1-63-final-sources-jar/io/netty/handler/pcap/PcapWriter.java

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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* /opt/cola/permits/1151782002_1617981757.78/0/netty-codec-http-4-1-63-final-sources-
  jar/io/netty/handler/codec/http/cookie/CookieUtil.java
* /opt/cola/permits/1151782002_1617981757.78/0/netty-codec-http-4-1-63-final-sources-
  jar/io/netty/handler/codec/http/cookie/CookieEncoder.java
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  jar/io/netty/handler/codec/rtsp/RtspEncoder.java
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  jar/io/netty/handler/codec/http/cookie/CookieDecoder.java
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  jar/io/netty/handler/codec/http/cookie/ClientCookieDecoder.java
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  jar/io/netty/handler/codec/http/cookie/ServerCookieEncoder.java
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  jar/io/netty/handler/codec/http/cookie/package-info.java
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* /opt/cola/permits/1151782002_1617981757.78/0/netty-codec-http-4-1-63-final-sources-
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* /opt/cola/permits/1151782002_1617981757.78/0/netty-codec-http-4-1-63-final-sources-
  jar/io/netty/handler/codec/http/cookie/Cookie.java
* /opt/cola/permits/1151782002_1617981757.78/0/netty-codec-http-4-1-63-final-sources-
  jar/io/netty/handler/codec/http/CombinedHttpHeaders.java
* /opt/cola/permits/1151782002_1617981757.78/0/netty-codec-http-4-1-63-final-sources-
  jar/io/netty/handler/codec/http/HttpScheme.java
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  jar/io/netty/handler/codec/http/HttpUtil.java
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Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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jar/io/netty/handler/codec/http/HttpServerKeepAliveHandler.java
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1.783 go-openapi-analysis v0.20.0

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1.797 glibc 2.28

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## Commands to generate dependency files

```
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)
```

## Flags for position independent code

```
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC
```

## Additional flags when building libraries and with threads

```
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =
```

## Compiler switch to embed a runtime search path

```
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,
```

## Compiler switch to embed a library name

```
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))
```

## Shared library options

```
LD_SSOPTIONS= -Wl,-Bsymbolic
```

## Shared object suffix

```
SO = so
```

## Non-shared intermediate object suffix

```
STATIC_O = ao
```

## Compilation rules

```
%.%(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.%(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
```

## Dependency rules

```
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.c) $< | sed 's/\([^@]*/\1.o $@ : /g' > $@; \ 
| sed 's/\([^@]*\).o:.[^@]*\@/\1.o $@ : /g' > $@; \ 
| -s $@ ]|| rm -f $@
```

```
%.d: $(srcdir)/%.cpp
```

---

Open Source Used In kASA v1 4562
@echo "generating dependency information for $<"
@$(SHELL) -ec "$\{GEN_DEPS.cc\} $< \n| sed \"s/(\*.*/$@ : /g\" > $@; \n[ -s $@ ] \|| rm -f $@"

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s {*F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymblic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

1.802 go-uuid v1.0.2

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import (
    "errors"
    "fmt"
)

// PermissionMode permission mode
type PermissionMode string

const (  
    // Create predefined permission mode, create permission
    Create PermissionMode = "create"
    // Read predefined permission mode, read permission
    Read PermissionMode = "read"
    // Update predefined permission mode, update permission
    Update PermissionMode = "update"
    // Delete predefined permission mode, deleted permission
    Delete PermissionMode = "delete"
    // CRUD predefined permission mode, create+read+update+delete permission
    CRUD PermissionMode = "crud"
)

// ErrPermissionDenied no permission error
var ErrPermissionDenied = errors.New("permission denied")

// Permission a struct contains permission definitions
type Permission struct {  
    Role         *Role
    AllowedRoles map[PermissionMode][]string
    DeniedRoles  map[PermissionMode][]string
func includeRoles(roles []string, values []string) bool {
    for _, role := range roles {
        if role == Anyone {
            return true
        }
    }
    for _, value := range values {
        if value == role {
            return true
        }
    }
    return false
}

// Concat concat two permissions into a new one
func (permission *Permission) Concat(newPermission *Permission) *Permission {
    var result = Permission{
        Role:         Global,
        AllowedRoles: map[PermissionMode][]string{ },
        DeniedRoles:  map[PermissionMode][]string{ },
    }
    var appendRoles = func(p *Permission) {
        if p != nil {
            result.Role = p.Role
            for mode, roles := range p.DeniedRoles {
                result.DeniedRoles[mode] = append(result.DeniedRoles[mode], roles...)}
            for mode, roles := range p.AllowedRoles {
                result.AllowedRoles[mode] = append(result.AllowedRoles[mode], roles...)}
        }
    }
    appendRoles(newPermission)
    appendRoles(permission)
    return &result
}

// Allow allows permission mode for roles
func (permission *Permission) Allow(mode PermissionMode, roles ...string) *Permission {
    if mode == CRUD {
        return permission.Allow/Create, roles...).Allow/Update, roles...).Allow/Read, roles...).Allow/Delete, roles...
    }
if permission.AllowedRoles[mode] == nil {
    permission.AllowedRoles[mode] = []string{}
}
permission.AllowedRoles[mode] = append(permission.AllowedRoles[mode], roles...)
return permission

// Deny deny permission mode for roles
func (permission *Permission) Deny(mode PermissionMode, roles ...string) *Permission {
    if mode == CRUD {
        return permission.Deny(Create, roles...).Deny(Update, roles...).Deny(Read, roles...).Deny(Delete, roles...)
    }
    if permission.DeniedRoles[mode] == nil {
        permission.DeniedRoles[mode] = []string{}
    }
    permission.DeniedRoles[mode] = append(permission.DeniedRoles[mode], roles...)
    return permission
}

// HasPermission check roles has permission for mode or not
func (permission Permission) HasPermission(mode PermissionMode, roles ...interface{}) bool {
    var roleNames []string
    for _, role := range roles {
        if r, ok := role.(string); ok {
            roleNames = append(roleNames, r)
        } else if roler, ok := role.(Roler); ok {
            roleNames = append(roleNames, roler.GetRoles()...)
        } else {
            fmt.Printf("invalid role %#v\n", role)
            return false
        }
    }
    if len(permission.DeniedRoles) != 0 {
        if deniedRoles := permission.DeniedRoles[mode]; deniedRoles != nil {
            if includeRoles(deniedRoles, roleNames) {
                return false
            }
        }
    }
    // return true if haven't define allowed roles
    if len(permission.AllowedRoles) == 0 {
        return true
    }
}
if AllowedRoles := permission.AllowedRoles[mode]; AllowedRoles != nil {
    if includeRoles(AllowedRoles, roleNames) {
        return true
    }
}
return false
}

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1.818 asm 5.0.3

1.819 google-auth 1.30.0

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```
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@c End:
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```

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package main
This is a small tool that updates the license header for Uber's open source Golang files.

## Installation

```
go get go.uber.org/tools/update-license```

## Usage
## Further Work

* Support more licenses by name (MIT, Apache 2.0, etc), file path, url (http GET)
* Support custom owner (not just "Uber Technologies, Inc.")
* Support more languages than go (cover go, java, js, py to start, along with LICENSE, LICENSE.txt)
* Talk about removing custom logic for header comments (ie `@generated`, `Code generated by`), it probably makes more sense just to put the license at the top
* Better detection support for existing licenses so they can be removed
* Verbose, dry run support

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func TestUpdateData(t *testing.T) {
    tests := []struct {
        input   string
        output  string
        year    int
        license string
    }{
        \`
        \`
    }

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}

for _, test := range tests {
runTestUpdateData(t, test.input, test.output, test.year, test.license)
}
}
func runTestUpdateData(t *testing.T, input string, output string, year int, license string) {
    actualOutput := string(
        updateData([]byte(input), year, license, "Uber Technologies, Inc."),
    )
    if output != actualOutput {
        t.Errorf("expected:
%s
actual:
%s", output, actualOutput)
    }
}

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1.832 k8s.io-utils v0.0.0-20200729134348-d5654de09c73

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Disclaims changes by Matthew Skala.

GNUPG Michael Roth Germany 1998-09-17
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ANY g10 Code GmbH 2001-06-07
Assignment for future changes terminated on 2012-12-04.
Code marked with ChangeLog entries of g10 Code employees.

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LIBGCRYPT Simon Josefsson 2002-10-25
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CTS/MAC flags, self test improvements)

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Original code for cipher/rfc2268.c.

LIBGCRYPT The Written Word2005-04-15
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src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S,
mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mpih-mul2.S,
mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c,
tests/register.c, tests/ac.c, tests/basic.c, tests/tsexp.c,
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

LIBGCRYPT Brad Hards 2006-02-09
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(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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LIBGCRYPT Andrey Jivsov 2010-12-09
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LIBGCRYPT Ulrich MÂ¼ller 2012-02-15
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(Changes to cipher/idea.c and related files)

LIBGCRYPT Vladimir Serbinenko 2012-04-26
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1.846 findutils 4.6.0

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lib/csharp/src/Protocol/TType.cs
lib/csharp/src/Server/TServer.cs
lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/TTThreadServer.cs
lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
lib/csharp/src/Thrift.sln
lib/csharp/src/TProcessor.cs
lib/csharp/src/Transport/TServerSocket.cs
lib/csharp/src/Transport/TServerTransport.cs
lib/csharp/src/Transport/TSocket.cs
lib/csharp/src/Transport/TStreamTransport.cs
lib/csharp/src/Transport/TTTransport.cs
lib/csharp/src/Transport/TTTransportException.cs
lib/csharp/src/Transport/TTTransportFactory.cs
lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs
lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj
lib/rb/lib/thrift.rb
lib/st/README
lib/st/thrift.st
test/OptionalRequiredTest.cpp
test/OptionalRequiredTest.thrift
test/ThriftTest.thrift

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* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/CharacterIterator.java
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/RE.java
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* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/RETest.java
* /opt/cola/permits/1134796780_1613422074.14/0/archive-259-zip/StringCharacterIterator.java

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* *
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The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch],
explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.867 groupcache 0.0.0-20190702054246-869f871628b6

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1.868 dns v1.1.41

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1.870 boost 1.68.0

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dossor provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. 

Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. 

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). 

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). 

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. 

David Chase, then at Olivetti Research, suggested several improvements. 

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. 

Jesse Hull and John Ellis supplied the C++ interface code. 

Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.) 

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<p class="copyright">1963, 1964, 1965 Jane Doe</p>
<p class="copyright">2018 Joe Blow, John Coe</p>
<p class="copyright">1977, 1985 Someone else</p>
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```
[#mpl]
# MPL Support, <boost/mp11/mpl.hpp>
:toc:
:toc-title:
:idprefix:

The header `\<boost/mp11/mpl.hpp>``, when included, defines the necessary support infrastructure for `\mp_list` and `\std::tuple`
to be valid link: ../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

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1.871 go-msgpack v0.5.3

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1.882 mousetrap v1.0.0

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1.896 txw2 2.3.0

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*/
/**
* Utility class for { @link ByteBuf } that encodes and decodes to and from
* <a href="https://en.wikipedia.org/wiki/Base64">Base64</a> notation.
*<p>
* The encoding and decoding algorithm in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/

Found in path(s):
* /opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-
jar/io/netty/handler/codec/base64/Base64.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.
The value of the length field in this example is 12 (0x0C) which represents the length of "HELLO, WORLD". By default, the decoder assumes that the length field represents the number of the bytes that follows the length field. Therefore, it can be decoded with the simplistic parameter combination.

```
lengthFieldOffset   = 0
lengthFieldLength   = 2
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" |
+--------+----------------+      +--------+----------------+

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

```
lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = 0
initialBytesToStrip = 2 (= the length of the Length field)
```

Before decode (14 bytes)         After decode (12 bytes)
+--------+----------------+      +----------------+
| Length | Actual Content |----->| Actual Content |
| 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
+--------+----------------+      +----------------+

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

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

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

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

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

* `<h3>`3 bytes length field at the 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)**
    * +----------+----------+----------------+      +----------+----------+----------------+
    * | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
    * | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
  * **AFTER DECODE (17 bytes)**
    * +----------+----------+----------------+      +----------+----------+----------------+
2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field

* 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 $lengthFieldOffset$ and the extra
* header affects the $lengthAdjustment$. We also specified a non-zero
* $initialBytesToStrip$ 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 $initialBytesToSkip$ for $initialBytesToSkip$.

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

* ch3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message

* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into $lengthAdjustment$.
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.

* BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
* +------|--------+------|----------------+      +------|----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------|--------+------|----------------+
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +---------------------------------+------------------+
* @see LengthFieldPrepender
*/

Found in path(s):
*/opt/cola/permits/1150446040_1617434855.26/0/netty-codec-4-1-63-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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version 1.2.5, July 18th, 2005

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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.Hour;
    import java.time.ZonedDateTime;
    import java.util.ArrayList;
    +import java.util.Calendar;
    import java.time.ZoneId;
    import java.time.ZonedDateTime;
    import java.util.ArrayList;
    +import java.util.Calendar;

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);
}

1.902 v2 v2.0.5
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1.904 coreutils 8.30
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  jar/io/netty/resolver/HostsFileEntriesResolver.java
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  jar/io/netty/resolver/AddressResolver.java
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* github.com/BurntSushi/toml - https://github.com/BurntSushi/toml

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* golang.org/x/mod/module - https://github.com/golang/mod

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# Please keep the list sorted.

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`  
    URL  string `json:"url,omitempty"`
}
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package simulator

)
// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {Key: "feature", Value: types.KeyValue{Key: "serialuri:2", Value: "Remote virtual Serial Port Concentrator"}},
        {Key: "feature", Value: types.KeyValue{Key: "dvs", Value: "vSphere Distributed Switch"}}
    }
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self: ref,
        Licenses: []types.LicenseManagerLicenseInfo{EvalLicense}
    }

    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }

    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{}
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
        }
    }

    return
}
m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
    LicenseKey: req.LicenseKey,
    Labels: req.Labels,
})

body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...) // Remove the license
            return body
        }
    }

    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{
    }

    for i := range m.Licenses {
        license := &m.Licenses[i]

        if req.LicenseKey != license.LicenseKey {
            continue
        }

        body.Res = new(types.UpdateLicenseLabelResponse)

        for j := range license.Labels {
            label := &license.Labels[j]

            if label.Key == req.LabelKey {
                if req.LabelValue == "" {
                    license.Labels = append(license.Labels[:i], license.Labels[i+1:]...) // Remove the label
                } else {
                    label.Value = req.LabelValue
                }
            }
        }
    }

    return body
}
license.Labels = append(license.Labels, types.KeyValue{
    Key:   req.LabelKey,
    Value: req.LabelValue,
})

return body
}

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault
{
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{
        }
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != ""
    {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId: req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }

    return body
}
```go
func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense
    info.LicenseKey = key
    info.Labels = labels
    return info
}
```

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package migration

import "fmt"

// Notice is a migration warning

type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by "%v"`, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const (  
    deprecated = "deprecated" // deprecated, but still completely functional
)

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ignored = "ignored" // if included in the corefile, it will be ignored by CoreDNS
removed = "removed" // completely removed from CoreDNS, and would cause CoreDNS to exit if present in
the Corefile
newdefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present
in the corefile.
unsupported = "unsupported" // the plugin/option is not supported by the migration tool

// The following statuses are used for selecting/filtering notifications
all = "all" // show all statuses
}

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# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `"<path>`
- Remote file format is `"<pod-name>:<path>`

```bash
ekubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```
## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `path`
- Remote file format is `pod-name:path`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c container-name`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `namespace/pod-name`.

- `pod-namespace/pod-name:path`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```
runc

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1.969 pyasn1 0.4.8
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Metadata-Version: 1.2
Name: pyasn1
Version: 0.4.8
Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: Ilya Etingof <etingof@gmail.com>
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Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
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Classifier: Programming Language :: Python :: 2.4
Classifier: Programming Language :: Python :: 2.5
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Classifier: Programming Language :: Python :: 2.7
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Classifier: Programming Language :: Python :: 3.2
Classifier: Programming Language :: Python :: 3.3
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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on [ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
-----------------

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ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1
-----------------

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```
```

```bash
Record ::= SEQUENCE {
  id        INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```
```

```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            ),
        ),
        DefaultedNamedType(
```
It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
``` 

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
``` 

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())

>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
```
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```
```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```
```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1
--------------------

The pyasn1 package is distributed under terms and conditions of 2-clause
BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question on Stack Overflow or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/README.md

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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/tests/codec/ber/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/tests/test_debug.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/pyasn1/compat/dateandtime.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/tests/codec/ber/test_encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/pyasn1/codec/native/encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/tests/codec/native/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/tests/codec/ber/__main__.py
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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/pyasn1/compat/integer.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/pyasn1/compat/integer.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/tests/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/pyasn1/type/tagmap.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/tests/base.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/tests/test_namedval.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/tests/test_constraint.py
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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/tests/compat/test_integer.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/tests/compat/test_integer.py
ASN.1 library for Python

.. toctree::
   :maxdepth: 1

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Abstract Syntax Notation One (ASN.1) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.org/project/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1
-------------

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions <https://news.ycombinator.com/item?id=8871453> on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protobuf>` or `FlatBuffers <https://google.github.io/flatbuffers>` for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific
implementation.

ASN.1 applications
------------------

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
-------------

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation
--------------

.. toctree::
   :maxdepth: 2

/pyasn1/contents

Use case
-------

.. toctree::
   :maxdepth: 2

/example-use-case

Download & Install
Changes
-------

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

License
-------

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Getting help
------------


Books on ASN.1
---------------

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson
Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

Found in path(s):
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/docs/source/contents.rst

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1.972 udev 3.2.5

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Go support for Protocol Buffers - Google's data interchange format

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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"`  

    // Modules is a list of the licensed enterprise modules  
    Modules []string `json:"modules"`  

    // List of features enabled by the license  
    Features []string `json:"features"`  
  }

type LicenseReply struct {  
    Valid    bool  
    License  *License
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
}

1.977 sigs.k8s.io-yaml v1.2.0

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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/*
Package firestore provides a client for reading and writing to a Cloud Firestore
database.

See https://cloud.google.com/firestore/docs for an introduction
to Cloud Firestore and additional help on using the Firestore API.

Note: you can't use both Cloud Firestore and Cloud Datastore in the same
project.

Creating a Client

To start working with this package, create a client with a project ID:

[NewClient]

CollectionRefs and DocumentRefs

In Firestore, documents are sets of key-value pairs, and collections are groups of
documents. A Firestore database consists of a hierarchy of alternating collections
and documents, referred to by slash-separated paths like
"States/California/Cities/SanFrancisco".

This client is built around references to collections and documents. CollectionRefs
and DocumentRefs are lightweight values that refer to the corresponding database
entities. Creating a ref does not involve any network traffic.

[refs]

Reading

Use DocumentRef.Get to read a document. The result is a DocumentSnapshot.
Call its Data method to obtain the entire document contents as a map.
You can also obtain a single field with `DataAt`, or extract the data into a struct with `DataTo`. With the type definition

```
structDef
```

we can extract the document's data into a value of type `State`:

```
DataTo
```

Note that this client supports struct tags beginning with “firestore:” that work like the tags of the `encoding/json` package, letting you rename fields, ignore them, or omit their values when empty.

To retrieve multiple documents from their references in a single call, use `Client.GetAll`.

```
GetAll
```

Writing

For writing individual documents, use the methods on `DocumentReference`. `Create` creates a new document.

```
Create
```

The first return value is a `WriteResult`, which contains the time at which the document was updated.

Create fails if the document exists. Another method, `Set`, either replaces an existing document or creates a new one.

```
Set
```

To update some fields of an existing document, use `Update`. It takes a list of paths to update and their corresponding values.

```
Update
```

Use `DocumentRef.Delete` to delete a document.

```
Delete
```

Preconditions

You can condition Deletes or Updates on when a document was last changed. Specify
these preconditions as an option to a Delete or Update method. The check and the write happen atomically with a single RPC.

[LUT-precond]

Here we update a doc only if it hasn't changed since we read it. You could also do this with a transaction.

To perform multiple writes at once, use a WriteBatch. Its methods chain for convenience.

WriteBatch.Commit sends the collected writes to the server, where they happen atomically.

[WriteBatch]

Queries

You can use SQL to select documents from a collection. Begin with the collection, and build up a query using Select, Where and other methods of Query.

[Query]

Call the Query's Documents method to get an iterator, and use it like the other Google Cloud Client iterators.

[Documents]

To get all the documents in a collection, you can use the collection itself as a query.

[CollQuery]

Transactions

Use a transaction to execute reads and writes atomically. All reads must happen before any writes. Transaction creation, commit, rollback and retry are handled for you by the Client.RunTransaction method; just provide a function and use the read and write methods of the Transaction passed to it.

[Transaction]

Authentication

See examples of authorization and authentication at https://godoc.org/cloud.google.com/go/pkg-examples.

*/

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1.981 tomb-v1 v1.0.0-20141024135613-dd632973f1e7

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1.983 go-isatty v0.0.4

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1.984 fsnotify v1.4.7

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1.985 google-go-cmp v0.5.0

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1.986 go-colorable v0.0.9

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1.987 go.mongodb.org-mongo-driver v1.1.2

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 * Date: 2018-03-01T13:33:48.179Z
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* /opt/cola/permits/1152700775_1619559077.17/0/admin-v0-0-0-20190329022438-b2f472167d02-targ.gz/admin@v0.0.0-20190329022438-b2f472167d02/views/assets/javascripts/vendors.js

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 * /opt/cola/permits/1152700775_1619559077.17/0/admin-v0-0-0-20190329022438-b2f472167d02-targ.gz/admin@v0.0.0-20190329022438-b2f472167d02/views/assets/stylesheets/scss/mdl/_variables.scss
 * /opt/cola/permits/1152700775_1619559077.17/0/admin-v0-0-0-20190329022438-b2f472167d02-targ.gz/admin@v0.0.0-20190329022438-b2f472167d02/views/assets/stylesheets/scss/mdl/_functions.scss
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fields:
  site: string
  author: root

1.990 mergo v0.3.10

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fields:
  site: string
  author: root

1.991 atomic v1.7.0

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func initBsdClause2() {
    Licenses["freebsd"] = License{
        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
                                "2 clause bsd", "simplified bsd license"},
        Header: "All rights reserved.

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

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

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        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
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// Parts inspired by https://github.com/ryanuber/go-license

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()
initAgpl()
}

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
    // If explicitly flagged, use that.
    if userLicense != "" {
        return findLicense(userLicense)
    }
    // If user wants to have custom license, use that.
    if viper.IsSet("license.header") || viper.IsSet("license.text") {
        return License{Header: viper.GetString("license.header"),
            Text: viper.GetString("license.text")}
    }
    // If user wants to have built-in license, use that.
    if viper.IsSet("license") {
        return findLicense(viper.GetString("license"))
    }
    // If user didn't set any license, use Apache 2.0 by default.
    return Licenses["apache"]
}

func copyrightLine() string {
    author := viper.GetString("author")
    year := viper.GetString("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }
    return "Copyright " + year + " " + author
}
// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        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 ""
}

package cmd

func initAgpl() {
    Licenses["agpl"] = License{
        Name:            "GNU Affero General Public License",
        PossibleMatches: ["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.

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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");
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func initMit() {
    Licenses["mit"] = License{
        Name: "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `Permission is hereby granted, free of charge, to any person obtaining a copy
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If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

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

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

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

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

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

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lconfig, ltmain.sh). Another support script, install-sh, is copyright
by M.I.T. but is also freely distributable.

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

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

We are required to state that
"The Graphics Interchange Format(c) is the Copyright property of
CompuServe Incorporated. GIF(sm) is a Service Mark property of
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REFERENCES
==========

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

The best short technical introduction to the JPEG compression algorithm is
Wallace, Gregory K. "The JPEG Still Picture Compression Standard",
Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.
(Adjacent articles in that issue discuss MPEG motion picture compression,
applications of JPEG, and related topics.) If you don't have the CACM issue
handy, a PostScript file containing a revised version of Wallace's article is
available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually
a preprint for an article that appeared in IEEE Trans. Consumer Electronics)
omits the sample images that appeared in CACM, but it includes corrections
and some added material. Note: the Wallace article is copyright ACM and IEEE,
and it may not be used for commercial purposes.
A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

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

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing
The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
=================

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

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

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

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

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

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.

Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

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

FILE FORMAT WARS

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

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

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

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

TO DO
=====

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

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

As always, speeding things up is of great interest.

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

1.1000 apimachinery v0.18.6
1.1000.1 Available under license :

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1.1002 jsonpointer v0.19.3

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1.1003 e2fsprogs 1.44.3

1.1003.1 Available under license:

This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
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# 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; id -Bshareable -o $(BSDLIB_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSDLIB_LIB)
$(RM) -f ../$(BSDLIB_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;''/$(SHLIBDIR) $(BSDLIB_LIB) $(BSDLIB_LIB)`)
install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Index: tdbsa/tdb.c

===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ 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
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Theodore Ts'o
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That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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

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# Handy Handlers

Collection of useful HTTP handlers that form a handler stack of filters. Many are opinionated for a specific purpose.


# API

The signature for a handler wrapper ends with an http.Handler interface and returns a http.Handler interface. For example:

```go
func CORS(methods, origins []string, http.Handler) http.Handler
```

# Contributing

Fork the repo and add your fix or handler with tests. Make a pull request.

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1.1014 json-c 0.15-r1
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1.1015 context v1.1.1

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1.1018 stateless4j 2.5.0

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* /opt/cola/permits/1150916823_1617719494.06/0/stateless4j-2-5-0-sources-6-
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1.1019 saaj 1.4

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jar/org/apache/axis/encoding/ser/ArraySerializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/ArraySerializerFactory.java
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  jar/org/apache/axis/encoding/MixedContentType.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources.jar/org/apache/axis/wsdl/symbolTable/CollectionTE.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources.jar/org/apache/axis/security/simple/SimpleSecurityProvider.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources.jar/javax/xml/rpc/holders/LongHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources.jar/org/apache/axis/wsdl/toJava/JavaBeanWriter.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources.jar/org/apache/axis/types/UnsignedByte.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources.jar/org/apache/axis/encoding/ser/TimeSerializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources.jar/org/apache/axis/attachments/OctetStreamDataSource.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources.jar/org/apache/axis/client/AxisClientProxy.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources.jar/org/apache/axis/types/NMTOKEN.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources.jar/javax/xml/rpc/encoding/Deserializer.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources.jar/org/apache/axis/transport/http/AxisHttpSession.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources.jar/org/apache/axis/encoding/DeserializerImpl.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources.jar/org/apache/utils/cache/JavaClass.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources.jar/org/apache/axis/transport/local/LocalTransport.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources.jar/javax/xml/soap/Detail.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources.jar/org/apache/axis/components/net/DefaultHTTPTransportClientProperties.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/attachments/DimeBodyPart.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/client/Stub.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/IDKey.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/ElementSerializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/DocumentDeserializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/BeanUtils.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/attachments/ManagedMemoryDataSource.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/i18n/MessageBundle.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/holders/FloatWrapperHolder.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/SoapException.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/SoapHeaderDetails.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/SoapMessageDetails.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/attachments/DimeDelimitedInputStream.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/axis/components/compiler/Javac.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/management/jmx/DeploymentQueryMBean.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/deployment/wsdd/WSDDJAXRPCHandlerInfoChain.java
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1.1023 redis 3.5.3

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1.1024 go-openapi-jsonpointer v0.19.3

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1.1025 blang-semver v3.5.0+incompatible

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```
## Further Work

* Support more licenses by name (MIT, Apache 2.0, etc), file path, url (http GET)
* Support custom owner (not just "Uber Technologies, Inc.")
* Support more languages than go (cover go, java, js, py to start, along with LICENSE, LICENSE.txt)
* Talk about removing custom logic for header comments (ie `@generated`, `Code generated by`), it probably makes more sense just to put the license at the top
* Better detection support for existing licenses so they can be removed
* Verbose, dry run support

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import (  
    "testing"
    )

func TestUpdateData(t *testing.T) {
    tests := []struct {
        input   string
        output  string
        year    int
        license string
    }{
        
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"MIT",
].,
}

for _, test := range tests { runTestUpdateData(t, test.input, test.output, test.year, test.license) }

func runTestUpdateData(t *testing.T, input string, output string, year int, license string) {
actualOutput := string(updateData([]byte(input), year, license, "Uber Technologies, Inc.")),

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1.1047 mpdecimal 3.0.4

1.1047.1 Available under license :

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1.1048 jackson-databind 2.12.0

1.1048.1 Available under license:

# 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.

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1.1054 jackson 2.9.8

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1.1060 x-sys v0.0.0-202003232222414-85ca7c5b95cd

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* /opt/cola/permits/1154536554_1618863768.29/0/useproject-fsnotify-v1-4-9-0-g71155eb-tar-gz/useproject-fsnotify-71155eb/integration_test.go
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1.1064 jackson 2.12.0
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1.1066 datatype 1.3.04

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import: ../../../../fossene/db/schema/thing.yml

fields:
  site: string
  author: root

1.1071 easyjson v0.7.0
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1.1073 x-sys v0.0.0-20210324051608-47abb6519492

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1.1075 mongo-go-driver v1.4.6

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1.1078 linux-kernel 4.18.45

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/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)  *
   * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)  *
   * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.  *
   * http://www.hypermall.com/   *
   * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
   *             interrupts us (except possibly for removal/insertion of the cable?)  *
   * 10/4/97 - began heavy inline documentation of the code. Corrected typos  *
   *             and spelling mistakes.  *
   * 10/5/97 - added code to handle PHY interrupts, disable PHY on  *
   *             loss of link, and correctly re-enable PHY when link is  *
   *             re-established. (put back CFG_PHYIE)  *
   *  *
   * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.  *
   *  *
   * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997  *
   *  *
   * Linux driver for the IDT77201 NICStAR PCI ATM controller.  *
   * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;  *
   * see init_nicstar() for PHY initialization to change this. This driver  *
   * expects the Linux ATM stack to support scatter-gather lists  *
   * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.  *
   *  *
   * Implementing minimal-copy of received data:  *
   * IDT always receives data into a small buffer, then large buffers  *
   * as needed. This means that data must always be copied to create  *
   * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)  */
Fix is simple: make large buffers large enough to hold entire SDU, and leave <small_buffer_data> bytes empty at the start. Then copy small buffer contents to head of large buffer. Trick is to avoid fragmenting Linux, due to need for a lot of large buffers. This is done by 2 things:

1) skb->destructor / skb->atm.recycle_buffer combined, allow nicstar_free_rx_skb to be called to recycle large data buffers

2) skb_clone of received buffers

See nicstar_free_rx_skb and linearize_buffer for implementation details.

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M. Welsh, 6 July 1996

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#

class=org.apache.camel.converter.jaxb.FallbackTypeConverterLoader

Found in path(s):
* /opt/cola/permits/1151699853_1617964999.68/0/camel-jaxb-3-0-0-sources-jar/META-INF/services/org/apache/camel/TypeConverterLoader

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package main

import (  "bufio"  "bytes"  "flag"  "fmt"  "io"  "log"  "os"  "path/filepath"  "strings" )
const crUsageString = `xb copyright [options] <path>.

The xb copyright command adds a copyright remark to all go files below path.

-\h prints this message and exits
```

func crUsage(w io.Writer) {
    fmt.Fprintf(w, crUsageString)
}

const copyrightText = `Copyright 2014-2019 Ulrich Kunitz. All rights reserved.
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```

func goComment(text string) string {
    buf := new(bytes.Buffer)
    scanner := bufio.NewScanner(strings.NewReader(text))
    var err error
    for scanner.Scan() {
        s := strings.TrimSpace(scanner.Text())
        if len(s) == 0 {
            continue
        } else if err = fmt.Fprintf(buf, "//", s); err != nil {
            panic(err)
        }
    }
    if err = scanner.Err(); err != nil {
        panic(err)
    }
    if err = fmt.Fprintf(buf); err != nil {
        panic(err)
    }
    return buf.String()
}

var goCopyright = goComment(copyrightText)

func addCopyright(path string) (err error) {
    log.Printf("adding copyright to %s", path)
    src, err := os.Open(path)
    if err != nil {
        return err
    }

    // Add copyright to file...

    // Write modified content back to file...
    return src.Close()
defer func() {
    cerr := src.Close()
    if cerr != nil && err == nil {
        err = cerr
    }
}

newPath := path + ".new"
dst, err := os.Create(newPath)
if err != nil {
    return err
}

defer func() {
    cerr := dst.Close()
    if cerr != nil && err == nil {
        err = cerr
    }
}

out := bufio.NewWriter(dst)
fmt.Fprintf(out, goCopyright)
scanner := bufio.NewScanner(src)
line := 0
del := false
for scanner.Scan() {
    line++
    txt := scanner.Text()
    if line == 1 && strings.Contains(txt, "Copyright") {
        del = true
        continue
    }
    if del {
        s := strings.TrimSpace(txt)
        if len(s) == 0 {
            del = false
        }
        continue
    }
    fmt.Fprintln(out, txt)
}
if err = scanner.Err(); err != nil {
    return err
}
if err = out.Flush(); err != nil {
    return
}
err = os.Rename(newPath, path)
return
func walkCopyrights(path string, info os.FileInfo, err error) error {
    if err != nil {
        return err
    }
    if info.IsDir() {
        return nil
    }
    if !strings.HasSuffix(info.Name(), ".go") {
        return nil
    }
    return addCopyright(path)
}

func copyright() {
    cmdName := os.Args[0]
    log.SetPrefix(fmt.Sprintf("%s: ", cmdName))
    log.SetFlags(0)

    flag.CommandLine = flag.NewFlagSet(cmdName, flag.ExitOnError)
    flag.Usage = func() { crUsage(os.Stderr); os.Exit(1) }
    help := flag.Bool("h", false, "")

    flag.Parse()

    if *help {
        crUsage(os.Stdout)
        os.Exit(0)
    }

    for _, path := range flag.Args() {
        fi, err := os.Stat(path)
        if err != nil {
            log.Print(err)
            continue
        }
        if !fi.IsDir() {
            log.Printf("%s is not a directory", path)
            continue
        }
        if err = filepath.Walk(path, walkCopyrights); err != nil {
            log.Fatalf("%s error %s", path, err)
        }
    }
}

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//go:generate mockgen -package empty_interface -destination mock.go -source input.go -copyright_file=mock_copyright_header

package empty_interface

type Empty interface {}

// This is a mock copyright header.

// Lorem ipsum dolor sit amet, consectetur adipiscing elit,
// sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.
// Velit ut tortor pretium viverra suspendisse potenti.

// Code generated by MockGen. DO NOT EDIT.
// Source: input.go

// Package empty_interface is a generated GoMock package.
package empty_interface

import ( gomock "github.com/golang/mock/gomock"
)

// MockEmpty is a mock of Empty interface
type MockEmpty struct {

// MockEmptyMockRecorder is the mock recorder for MockEmpty
type MockEmptyMockRecorder struct {
    mock *MockEmpty
}

// NewMockEmpty creates a new mock instance
func NewMockEmpty(ctrl *gomock.Controller) *MockEmpty {
    mock := &MockEmpty{ctrl: ctrl}
    mock.recorder = &MockEmptyMockRecorder{mock}
    return mock
}

// EXPECT returns an object that allows the caller to indicate expected use
func (m *MockEmpty) EXPECT() *MockEmptyMockRecorder {
    return m.recorder
}

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Written by: Philip Hazel
Email local part: ph10
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1.1116 x-net v0.0.0-20210324051636-2c4c8ecb7826

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1.1117 perfmark-api 0.19.0

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1.1118 gnutls 3.6.4

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* /opt/cola/permits/1151803544_1617990447.5/0/netty-codec-socks-4-1-63-final-sources-
jar/io/netty/handler/codec/socks/SocksInitRequestDecoder.java
* /opt/cola/permits/1151803544_1617990447.5/0/netty-codec-socks-4-1-63-final-sources-
jar/io/netty/handler/codec/socks/DefaultSocks5InitialResponse.java
* /opt/cola/permits/1151803544_1617990447.5/0/netty-codec-socks-4-1-63-final-sources-
jar/io/netty/handler/codec/socks/v4/Socks4ServerDecoder.java
* /opt/cola/permits/1151803544_1617990447.5/0/netty-codec-socks-4-1-63-final-sources-
jar/io/netty/handler/codec/socks/v4/Socks4CommandRequest.java
* /opt/cola/permits/1151803544_1617990447.5/0/netty-codec-socks-4-1-63-final-sources-
jar/io/netty/handler/codec/socks/SocksCommonUtils.java
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1.1130 simple 5.1.6

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 * SocketConnection.java October 2002
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jar/org/simpleframework/transport/connect/SocketConnection.java
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 * ResponseEntity.java February 2001
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 * Cleaner.java May 2004
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/http/message/PartBodyConsumer.java
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 * Consumer.java February 2007
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   jar/org/simpleframework/http/message/Consumer.java
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   jar/org/simpleframework/http/core/Producer.java
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* Connection.java October 2002
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Query.java February 2001

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FormatException.java May 2007

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* Message.java February 2007
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  jar/org/simpleframework/http/message/Message.java
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/http/message/MessageHeader.java
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* Action.java February 2007
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  jar/org/simpleframework/transport/reactor/Action.java
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* Parser.java February 2001
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  jar/org/simpleframework/util/parse/Parser.java
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* Reactor.java February 2007
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  jar/org/simpleframework/transport/reactor/Reactor.java
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* ContentDispositionParser.java February 2007
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  jar/org/simpleframework/http/parse/ContentDispositionParser.java
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* Entity.java February 2007
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  jar/org/simpleframework/http/message/Entity.java
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* Agent.java October 2012
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  jar/org/simpleframework/transport/trace/Agent.java
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* BufferSegment.java February 2008
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  jar/org/simpleframework/transport/BufferSegment.java
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jar/org/simpleframework/transport/connect/SocketListenerManager.java
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* Status.java February 2007
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jar/org/simpleframework/transport/Status.java
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* BufferWrapper.java February 2008
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 * Server.java February 2001
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  jar/org/simpleframework/transport/Server.java
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 * RequestHeader.java February 2001
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Jar/org/simpleframework/http/RequestHeader.java
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jar/org/simpleframework/transport/Scheduler.java
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 * ConnectionEvent.java October 2012
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 * BodyConsumer.java February 2007
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 * RequestConsumer.java February 2001
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/http/parse/AddressParser.java
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* RequestCertificate.java June 2013
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/http/core/RequestCertificate.java
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* SegmentConsumer.java February 2007
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/http/message/SegmentConsumer.java
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* QueryBuilder.java October 2002
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/http/core/QueryBuilder.java
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* Listener.java October 2002
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*/opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
jar/org/simpleframework/transport/connect/SocketListener.java
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* Scheduler.java February 2007
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*/opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
jar/org/simpleframework/util/thread/Scheduler.java
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* FileAllocator.java February 2008
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  jar/org/simpleframework/transport/connect/ConnectionException.java
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* ConnectionException.java February 2007
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  jar/org/simpleframework/transport/connect/ConnectionException.java
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* SecureTransport.java February 2007
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  jar/org/simpleframework/transport/SecureTransport.java
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 * Method.java May 2012
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  jar/org/simpleframework/http/Method.java
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 * ContractQueue.java May 2004
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  jar/org/simpleframework/util/lease/ContractQueue.java
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* ActionMap.java February 2007
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  jar/org/simpleframework/transport/reactor/ActionMap.java
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* SocketFlusher.java February 2007
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  jar/org/simpleframework/transport/SocketFlusher.java
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* Lease.java May 2004
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  jar/org/simpleframework/util/lease/Lease.java
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* Channel.java February 2007
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  jar/org/simpleframework/transport/Channel.java
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* RequestEntity.java February 2001
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/http/core/RequestEntity.java
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* PartSeriesConsumer.java February 2007
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jar/org/simpleframework/http/message/PartSeriesConsumer.java
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 * PacketController.java February 2008
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  jar/org/simpleframework/transport/PacketController.java
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  jar/org/simpleframework/transport/SocketWriter.java
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 * Terminator.java February 2009
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  jar/org/simpleframework/transport/Terminator.java
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 * ArrayAllocator.java February 2001
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  jar/org/simpleframework/util/buffer/ArrayAllocator.java
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NegotiationCertificate.java June 2013

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jar/org/simpleframework/core/Collector.java
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jar/org/simpleframework/util/thread/PoolQueue.java
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* Handshake.java February 2007
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  jar/org/simpleframework/transport/Handshake.java
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* QueryParser.java December 2002
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  jar/org/simpleframework/http/parse/QueryParser.java
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 * ContentTypeParser.java February 2001
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  jar/org/simpleframework/http/parse/ContentTypeParser.java
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Found in path(s):
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/http/core/TransferException.java
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* ArrayBuffer.java February 2001
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/util/buffer/ArrayBuffer.java
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* ArrayConsumer.java February 2007
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  jar/org/simpleframework/http/message/ArrayConsumer.java
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* ContentType.java February 2001
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  jar/org/simpleframework/http/ContentType.java
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* QueryCombiner.java May 2003
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1.jar/org/simpleframework/http/core/QueryCombiner.java
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* ValueParser.java September 2003
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* Certificate.java June 2013
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  jar/org/simpleframework/transport/Certificate.java
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 * Segment.java February 2007
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  jar/org/simpleframework/http/message/Segment.java
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 * Acceptor.java October 2002
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jar/org/simpleframework/transport/connect/SocketAcceptor.java
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 * CloseProducer.java February 2007
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jar/org/simpleframework/http/core/CloseProducer.java
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 * Distributor.java February 2007
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jar/org/simpleframework/transport/reactor/Distributor.java
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 * Controller.java May 2004
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  jar/org/simpleframework/util/lease/Controller.java
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 * ConsumerFactory.java February 2007
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  jar/org/simpleframework/message/ConsumerFactory.java
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 * Cursor.java February 2007
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  jar/org/simpleframework/transport/Cursor.java
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 * BufferAllocator.java February 2001
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  jar/org/simpleframework/util/buffer/BufferAllocator.java
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 * ContentConsumer.java February 2007
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  jar/org/simpleframework/http/message/ContentConsumer.java
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  jar/org/simpleframework/transport/reactor/ExecuteAction.java
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ChunkedConsumer.java February 2007

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* Principal.java November 2002
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  jar/org/simpleframework/http/Principal.java
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  jar/org/simpleframework/util/buffer/Allocator.java
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* NegotiationException.java February 2007
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jar/org/simpleframework/transport/TransportSender.java
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 */
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/http/message/EmptyInputStream.java
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 * Transport.java February 2007
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 * ChunkedProducer.java February 2007
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/http/core/ChunkedProducer.java
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* BufferBody.java February 2012
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
jar/org/simpleframework/http/message/BufferBody.java
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* Selector.java February 2007
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jar/org/simpleframework/http/core/Selector.java
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 * PartHeaderConsumer.java February 2007
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 * PoolFactory.java February 2009
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 * Trace.java October 2012
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Found in path(s):
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
jar/org/simpleframework/transport/trace/Trace.java
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 * PartitionDistributor.java February 2007
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
jar/org/simpleframework/transport/reactor/PartitionDistributor.java
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 * PrincipalParser.java February 2001
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/opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/http/parse/PrincipalParser.java

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ExecutorReactor.java February 2007

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Found in path(s):

/opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/transport/reactor/ExecutorReactor.java

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Contract.java May 2004

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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
jar/org/simpleframework/util/lease/Contract.java
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 * BoundaryConsumer.java February 2007
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jar/org/simpleframework/http/message/BoundaryConsumer.java
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 * ProcessorServer.java February 2007
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jar/org/simpleframework/transport/ProcessorServer.java
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* SocketTrace.java February 2012
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jar/org/simpleframework/transport/connect/SocketTrace.java
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* TransportCursor.java February 2007
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jar/org/simpleframework/transport/TransportCursor.java
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 * PartFactory.java February 2007
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nar/org/simpleframework/http/message/PartFactory.java
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 * OperationFactory.java February 2007
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  jar/org/simpleframework/transport/OperationFactory.java
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 * ParseBuffer.java February 2001
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  jar/org/simpleframework/util/parse/ParseBuffer.java
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 * MapParser.java February 2005
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* Negotiation.java February 2007
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* SocketAgent.java February 2012
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 * SecureNegotiator.java February 2007
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jar/org/simpleframework/transport/SocketController.java

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jar/org/simpleframework/lease/Entry.java

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  jar/org/simpleframework/http/core/Monitor.java
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 * PartEntryConsumer.java February 2007
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  jar/org/simpleframework/http/message/PartEntryConsumer.java
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  jar/org/simpleframework/http/StatusLine.java
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/transport/PacketException.java
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 * PartEntryFactory.java February 2007
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Found in path(s):
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/http/message/PartEntryFactory.java
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 * LeaseManager.java May 2004
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  jar/org/simpleframework/util/lease/LeaseManager.java
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 * FilterAllocator.java February 2001
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* CertificateChallenge.java June 2013
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  jar/org/simpleframework/transport/CertificateChallenge.java
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* Protocol.java May 2012
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  jar/org/simpleframework/http/Protocol.java
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 * Timer.java November 2012
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  jar/org/simpleframework/http/core/Timer.java
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 * TokenConsumer.java February 2007
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* HeaderConsumer.java February 2007
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* Packet.java February 2008
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jar/org/simpleframework/transport/Packet.java
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* FileManager.java February 2008
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jar/org/simpleframework/util/buffer/FileManager.java
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* Address.java February 2001
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  jar/org/simpleframework/http/Address.java
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* PacketWriter.java February 2008
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  jar/org/simpleframework/transport/PacketWriter.java
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Response.java February 2001

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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/http/ResponseHeader.java
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
  jar/org/simpleframework/http/Response.java
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 * CookieParser.java February 2001
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  jar/org/simpleframework/http/parse/CookieParser.java
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 * BufferRecycler.java February 2008
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  jar/org/simpleframework/transport/BufferRecycler.java
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 * Latch.java February 2007
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  jar/org/simpleframework/transport/reactor/Latch.java
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 * PartSeries.java February 2007
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  jar/org/simpleframework/transport/reactor/Latch.java

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 * Operation.java February 2007
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  jar/org/simpleframework/transport/reactor/Operation.java

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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
jar/org/simpleframework/util/lease/LeaseMap.java
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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-
jar/org/simpleframework/http/core/ContainerSelector.java
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  jar/org/simpleframework/transport/BufferCompacter.java
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  jar/org/simpleframework/transport/reactor/ActionQueue.java
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 * ContainerEvent.java October 2012
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  jar/org/simpleframework/http/core/ContainerEvent.java
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 * TerminateException.java February 2007
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  jar/org/simpleframework/transport/TerminateException.java
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 * EmptyConsumer.java February 2007
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  jar/org/simpleframework/http/message/EmptyConsumer.java
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* Socket.java February 2001
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  jar/org/simpleframework/transport/Socket.java
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  jar/org/simpleframework/transport/PacketFlusher.java

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  jar/org/simpleframework/http/core/Initiator.java

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* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/http/core/Dispatcher.java
* /opt/cola/permits/1144651729_1620196519.49/0/simple-5-1-6-sources-1-jar/org/simpleframework/transport/Dispatcher.java

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 * LeaseProvider.java May 2004
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 * Daemon.java February 2009
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  jar/org/simpleframework/transport/Sender.java

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 * Request.java February 2001
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* /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

1.1135 tgz v0.0.0-20161220082320-9c5fe88206d7
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1.1136 configor v1.1.1

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* /opt/cola/permits/1152699246_1619558614.75/0/configor-v1-1-1-tar-gz/configor@v1.1.1/README.md

1.1137 google.golang.org-protobuf v1.23.0

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package cloud

import (  
  "bytes"  
  "io/ioutil"  
  "os"  
  "path/filepath"  
  "strings"  
  "testing"
)

var sentinels = []string{  
  "Copyright",
  "Google",
  "Licensed under the Apache License, Version 2.0 (the "License");",
}

func TestLicense(t *testing.T) {  
t.Parallel()
  err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {  
    if err != nil {  
      return err
    }
    if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {  
      return nil
    }
    if strings.HasSuffix(path, ".pb.go") {  
      // .pb.go files are generated from the proto files.
      // .proto files must have license headers.
      return nil
    }
    if path == "bigtable/cmd/cbt/cbtdoc.go" {

}
/ Automatically generated.
return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
// BSD license, which is compatible, is embedded in the file.
return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
if !bytes.Contains(src, []byte(sentinel)) {
t.Error("%v: license header not present. want %q", path, sentinel)
return nil
}
}
return nil
}
if err != nil {
t.Fatal(err)
}

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1.1155 python 3.7.3 2+deb10u3

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

A. HISTORY OF THE SOFTWARE
==========================

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

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

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

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

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py3compile, py3clean and debpython module:

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1.1156 keypoint-pngencoder 1.0.15

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1.1158 go-yaml v2.2.8

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Jennifer Orr (JavaWorld) wrote: "You have permission to use the code appearing in
Steven Brandt's JavaWorld article, 'Java Tip 128: Create a quick-and-dirty XML parser.'
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com/lowagie/text/pdf/LZWDecoder.java (first appearance in iText: 2002-02-08)
com/lowagie/text/pdf/codec/TIFFLZWDecoder.java (first appearance in iText: 2003-04-09)
com/lowagie/text/pdf/codec/TIFFField.java (first appearance in iText: 2003-04-09)
com/lowagie/text/pdf/codec/TIFFFaxDecoder.java (first appearance in iText: 2003-04-09)
com/lowagie/text/pdf/codec/TIFFLZWDecoder.java (first appearance in iText: 2003-04-09)

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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com)
writes: "This code is under a BSD license and supersedes the older codec packages
on which your code is based. It also includes numerous fixes among them being the
ability to handle a lot of 'broken' TIFFs."

Note that numerous fixes were applied to the code used in iText by Paulo Soares,
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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This framework supports these formats:
Java 1.4: GIF (read only), JPEG, PNG
Java 1.5: Added support for BMP and WBMP
Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

(4) the file com/lowagie/text/pdf/codec/TIFFConstants
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`,
}

//

This is a small tool that updates the license header for Uber's open source Golang files.

## Installation
```
go get go.uber.org/tools/update-license
```

## Usage
```
update-license go_files...
```

## Further Work
- Support more licenses by name (MIT, Apache 2.0, etc), file path, url (http GET)
- Support custom owner (not just "Uber Technologies, Inc.")
- Support more languages than go (cover go, java, js, py to start, along with LICENSE, LICENSE.txt)
- Talk about removing custom logic for header comments (ie `@generated`, `Code generated by`), it probably makes more sense just to put the license at the top
- Better detection support for existing licenses so they can be removed
- Verbose, dry run support

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import (  
    "testing"
)

func TestUpdateData(t *testing.T) {
    tests := []struct {
        input   string
        output  string
        year    int
        license string
    }{  
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        2: `// Copyright (c) 2017 Uber Technologies, Inc.
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2018,
"Apache-2.0",
},
{
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//
package main
2017,
"MIT",
},
}

for _, test := range tests {
  runTestUpdateData(t, test.input, test.output, test.year, test.license)
}

func runTestUpdateData(t *testing.T, input string, output string, year int, license string) {
  actualOutput := string(updateData([]byte(input), year, license, "Uber Technologies, Inc."))
  if output != actualOutput {
    t.Errorf("unexpected:\n%s\nactual:\n%s", output, actualOutput)
  }
}

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1.1168 binutils 2.34-r1

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++++++++++++++++

Dean Elsner wrote the original gas for vax.  [more details?]  

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael
Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\n  Module-Build mailing list at <module-build@perl.org>.
"
built_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
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Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

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

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Appendix: How to Apply These Terms to Your New Programs

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

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

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

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The End

#!/perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

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

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

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

=cut

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

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

my ($opt) = @ARGV;

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

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

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

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

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

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

    $year;
}

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

    $year;
}
1.1174 nettle 3.4.1-1

1.1174.1 Available under license :

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1.1205 godo 1.44.0

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Portions of the client are based on code at:
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1.1206 k8s.io-component-base v0.19.2

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ldns is a great library. It is a powerful tool for working with DNS. python-ldns it is a straight up clone of the C interface, however that is not a very good interface for python. Its documentation is incomplete and some functions don't work as described. And some objects don't have a full python API.

ldnsx aims to fix this. It wraps around the ldns python bindings, working around its limitations and providing a well-documented, more pythonistic interface.

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1.1210 semver v3.5.1+incompatible

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1.1211 mergo v0.3.5

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```yaml
import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root
```

1.1212 runtime v0.19.4

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package cloud

import (  
  "bytes"
  "io/ioutil"
  "os"
  "path/filepath"
  "strings"
  "testing"
)

var sentinels = []string{
func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if strings.HasSuffix(path, ".pb.go") {
            // .pb.go files are generated from the proto files.
            // .proto files must have license headers.
            return nil
        }
        if path == "bigtable/cmd/cbt/cbtdoc.go" {
            // Automatically generated.
            return nil
        }
        if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
            // BSD license, which is compatible, is embedded in the file.
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        src = src[:300] // Ensure all of the sentinel values are at the top of the file.

        // Find license
        for _, sentinel := range sentinels {
            if !bytes.Contains(src, []byte(sentinel)) {
                t.Errorf("%v: license header not present. want %q", path, sentinel)
                return nil
            }
        }
    })
    if err != nil {
        t.Fatal(err)
    }
}
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1.1221 udev v248

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* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-
jar/org/immutables/value/internal/$processor$/meta/$HasStyleInfo.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-
jar/org/immutables/value/internal/$processor$/meta/$CheckedExceptionProbe.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-
jar/org/immutables/value/internal/$generator$/$Delegated.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/Generated.java

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

package org.immutables.value.processor;

import static org.immutables.generator.Intrinsics.*;

@java.lang.SuppressWarnings("all")
public class Generator_Immutables extends org.immutables.value.processor.Immutables {
    public org.immutables.generator.Templates.Invokable generate() { return generate; }
    private final org.immutables.generator.Templates.Invokable generate = new FragmentDispatch(0, 0);
    void _t0__generate(org.immutables.generator.Templates.Invocation __) {
if ($if(type.constitution.hasEnclosingNonvalue())) {
  __dl();__ln();
  __dl();
  $(__, generateEnclosing, type);
  __ln();
  __dl();
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __dl();__ln();
    $(__, generateBuilder, type, $$true);
    __ln();
    __dl();
  }));
  __ln();
  __out("  ");
}
__dl();__ln();
__out("  ");
__dl();
if ($if(is)) {
  __dl();__ln();
  __dl();
  $(__, output.java, type.$$package(), type.typeEnclosing().simple(), type.element, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dl();__ln();
      $(__, generateEnclosing, type);
      __ln();
      __dl();
    }));
  __ln();
  __out("  ");
}
__dl();__ln();
__out(" ");
__dl();_it1.index++;
_it1.first = false;
}
__dl();__ln();
__dl();
}
or g.immutables.generator.Templates.Invokable annotationsWhenTopLevel() { return annotationsWhenTopLevel; }
private final org.immutables.generator.Templates.Invokable annotationsWhenTopLevel = new FragmentDispatch(2, 1);
void _t1__annotationsWhenTopLevel(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final java.lang.Boolean is = $if(__.param(1));
  __ln();
  __dl();__ln();
  $(__, atGenerated, type);
  __ln();
  __dl();
  if ($if(is)) {
org.immutables.generator.Templates.Invokable WhenTopLevel() { return packageWhenTopLevel; }
private final org.immutables.generator.Templates.Invokable packageWhenTopLevel = new FragmentDispatch(2, 2);
void _t2__packageWhenTopLevel(org.immutables.generator.Templates.Invokation __) {
  __.dl(); final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final java.lang.Boolean is = $if(__.param(1));
  __.ln();
  __.dl();
  if ($if(is)) {
    __.dl(); __.ln();
    $(__, type.sourceHeader());
    __.ln();
    __.dl();
    if ($if(type.$$package())) {
      __.dl(); __.ln();
      __.out("\n");
      __.dl();
      __.ln();
      __.out("package ");
      $(__, type.$$package());
      __.out(";").ln();
      __.out("\n");
    }
    __.dl(); __.ln();
    __.ln();
    __.dl(); __.ln();
    __.out("import java.lang.Object;").ln();
    __.out("import java.lang.String;").ln();
    __.out("import java.lang.Float;").ln();
    __.out("import java.lang.Double;").ln();
    __.out("\n");
  }
  __.dl(); __.ln();
  __.ln();
  __.dl(); __.ln();
  __.out("import java.lang.Object;\n").ln();
  __.out("import java.lang.String;\n").ln();
  __.out("import java.lang.Float;\n").ln();
  __.out("import java.lang.Double;\n").ln();
  __.out("\n");
  } [final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final java.lang.String starImport : $in(type.getRequiredSourceStarImports())) {
  __.dl(); __.ln();
  __.out("import ");
  $(__, starImport);
  __.out(";").ln();
  __.out("\n");
  __.dl(); _it1.index++;
  _it1.first = false;
}
__().ln();
__().out("\n");
} [final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final java.lang.String routine : $in(type.getImmutableCopyOfRoutines())) {
  __().dl(); __.ln();
  __.out("import static ");
  $(__, routine);
if ($if(type.getDebugLines())) {
    __dl();__ln();
    __out("/*--DEBUG---------------------------------------------------").ln();
    $__(_(), eachLine, type.getDebugLines());
    __ln();
    __out("----------------------------------------------------------*/").ln();
}
__dl();__ln();
__dl();

org.immutables.generator.Templates.Invokable generateEnclosing() { return generateEnclosing; }
private final org.immutables.generator.Templates.Invokable generateEnclosing = new FragmentDispatch(1, 3);
void _t3__generateEnclosing(org.immutables.generator.Templates.Invokation __) {
    __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    __ln();
    $__(_(), packageWhenTopLevel, type, $true);
    __ln();
    __ln();
    __out("/**").ln();
    __out(" */ { @code }").ln();
    $__(_(), type.typeEnclosing().simple());
    __out("} contains immutable implementation classes generated from").ln();
    __out(" abstract value types defined as nested inside { @link }").ln();
    $__(_(), type.typeAbstract().relativeRaw());
    __out("*/").ln();
    {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
        for (final org.immutables.value.processor.meta.ValueType v : $in(type.nested)) {
            __dl();__ln();
            __out(" * @see ");
            $__(_(), v.typeValue().relativeRaw());
            __ln();
            __dl();_it1.index++;
        _it1.first = false;
    }
    __dl();__ln();
    __out(" */").ln();
}
final class { final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration(); for (final org.immutables.value.processor.meta.ValueType v : $in(type.nested)) {

  }
if ($if($is(type.isGenerateJdkOnly(), and, type.isUseCollectionUtility()))) {
  __dl(); __ln();
  __out(" ");
  $___.collectionUtility, type);
  __ln();
}
__dl(); __ln();
__dl();
if ($if(type.detectAttributeBuilders())) {
  __dl(); __ln();
  __out(" ");
  $___.attributeBuilderTransformUtilities, type);
  __ln();
}
__dl(); __ln();
__out("\n").ln();
__dl();
}
org.immutables.generator.Templates.Invokable generateImmutable() { return generateImmutable; }
private final org.immutables.generator.Templates.Invokable generateImmutable = new FragmentDispatch(2, 4);
void _t4__generateImmutable(org.immutables.generator.Templates.Invokation __) {
  __dl();
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final java.lang.Boolean topLevel = $if(__.param(1));
  __ln();
  $___.packageWhenTopLevel, type, topLevel);
  __ln();
  __ln();
  final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
  final java.util.List<org.immutables.value.processor.meta.ValueAttribute> setters =
  $cast(type.getSettableAttributes());
  __dl(); __ln();
  __out("/**").ln();
  __out(" ");
  __dl();
  if ($if(type.getDocComment())) {
    __dl(); __ln();
    final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
    for (final java.lang.String d : $in(type.getDocComment())) {
      __dl(); __ln();
      __out(" *")
      $(_ _, d);
      __dl(); __ln();
      __dl(); _it2.index++;
      _it2.first = false;
    }
  }
__dl();__ln();
__out("  ");
}

} else {
__dl();__ln();
__out("  * Immutable implementation of { @link ");
$___.type.typeAbstract().relativeRaw();
__out("}").ln();
__out("  * <p>").ln();
__dl();
if ($if(type.isUseBuilder())) {
__dl();__ln();
__out("  * Use the builder to create immutable instances:").ln();
__out("  * { @code ");
$___. type.factoryBuilder().relativeRaw();
__out("} ").ln();
}
__dl();__ln();
__dl();
if ($if(type.isUseConstructor())) {
__dl();__ln();
__out("  * Use the static factory method to create immutable instances:").ln();
__out("  * { @code ");
$___. type.factoryOf().relativeRaw();
__out("} ").ln();
}
__dl();__ln();
__dl();
if ($if(type.isUseSingleton())) {
__dl();__ln();
__out("  * Use the static factory method to get the default singleton instance:").ln();
__out("  * { @code ");
$___. type.factoryInstance().relativeRaw();
__out("} ").ln();
}
__dl();__ln();
__out(" ");
}

__dl();__ln();
__out(" */").ln();
$___. annotationsWhenTopLevel, type, topLevel;
__ln();
{final org.immutables.value.processor.meta.ValueType t_typeDeprecation_700356724 = $cast(type);
__dl();
if ($if(t_typeDeprecation_700356724.isDeprecated())) {
    __.dl();__.out("@Deprecated");
}
___.dl();
___.ln();
___.dl();
if ($if($(type, allowsClasspathAnnotation, "javax.annotation.concurrent.Immutable"))) {
    __.dl();__.ln();
    __.out("@javax.annotation.concurrent.Immutable").ln();
}
___.dl();__.ln();
___.dl();
if ($if($(type, allowsClasspathAnnotation, "javax.annotation.CheckReturnValue"))) {
    __.dl();__.ln();
    __.out("  ");
    __.dl();__.ln();
    __.out("  ");
    __.dl();
    if ($if($(not, topLevel))) {
      __.dl();__.out("static ");
    }
    ___.dl();__.out("final ");
}$(__, eachLine, type.passedAnnotations());
___.ln();
$(__, eachLine, type.immutableTypeInjectedAnnotations());
___.ln();
$(__, type.typeImmutable().access());
___.dl();
if ($if($(not, topLevel))) {
    __.dl();__.out("static ");
}
___.dl();__.out("final ");
}$(__, output.linesShortable, new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __.dl();__.out("class ");
    $(__, type.typeImmutable().simple());
    $(__, type.generics());
    ___.ln();
if ($if(!$not, $type.factoryBuilder().isNew())) {
  __dl(); __ln();
  __out(" ");
  {final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
   final java.util.List<org.immutables.value.processor.meta.ValueAttribute> parameters =
   $cast($type.getBuilderParameters());
   __dl(); __ln();
   __ln();
   __out("/**"); __ln();
   __out(" * Creates a builder for { @link ");
   $(__, $type.typeValue().relativeRaw());
   __out(" ");
   $(__, $type.typeValue().simple());
   __out(" "); __ln();
   __out(" ");
   $__ javadocBuilderExample, $type);
   __ln();
   __out(" ");
   $(__ javadocGenerics, $type);
   __ln();
   __out(" ");
   {final org.immutables.generator.Templates.Iteration _it3 = new
    org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute p : $in(parameters)) {
      __dl(); __ln();
      __out(" * @param ");
      $(__, p.name());
      __out(" [@code ");
      $(__, p.name());
      __out(" ] parameter");
      __dl();
      if ($if(p.isNullable())) {
        __dl(); __out(" can be { @code null ");
      }
    }
  __dl(); __ln();
  __out(" ");
  __dl(); _it3.index++;
  _it3.first = false;
}}
__dl(); __ln();
__out(" ");
__dl(); _it3.index++;
  _it3.first = false;
}
__dl(); __ln();
__out(" * @return A new ");
$(__, $type.typeValue().simple());
__out(" builder").ln();
__out(" */").ln();
__out(" public static");
$(__, $type.generics().def());
```java
___.out(" ");
$(__, factoryBuildStageBuilderType, type);
___.out(" ");
$(__, type.factoryBuilder().applied());
___.out("(");
{final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
  for (final org.immutables.value.processor.meta.ValueAttribute p : $in(parameters)) {
    ___.dl();___.dl();
    if ($(not, _it3.first)) {
      ___.dl();___.out(" ");
    }
    ___.dl();$___.p.atNullability());
  $(___.constructorAcceptType, p);
  ___.out(" ");
  $(___.p.name());
  ___.dl();_it3.index++; _it3.first = false;
}
___.dl();___.out(" ").ln();
___.out(" return new ");
$(__, type.typeBuilderImpl().relativeRaw());
$(__, type.generics().diamond());
___.out("(");
{final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
  for (final org.immutables.value.processor.meta.ValueAttribute p : $in(parameters)) {
    ___.dl();___.dl();
    if ($(not, _it3.first)) {
      ___.dl();___.out(" ");
    }
    ___.dl();$___.p.name());
    ___.dl();_it3.index++; _it3.first = false;
  }
  ___.out(" ").ln();
  ___.out(" ").ln();
  ___.out(" ");___.dl();
  if ($(not($parameters, andnot, type.kind().isFactory()))) {
    ___.dl();___.ln();
    ___.ln();
    ___.out(" static");
    $(__, type.generics().def());
    ___.out(" ");
    $(__, type.typeBuilderImpl().relative());
  }
}
```

```java
__.ln();
__.out(" ");

dl();_.ln();
dl();_it2.index++;
_it2.first = false;
}

dl();_.ln();
dl();
if ($if(topLevel)) {
    dl();_.ln();
    .out(" ");
    $(__, objectsUtility, type);
    _.ln();
}

dl();_.ln();
dl();
if ($if($(topLevel, and, $(type.isGenerateJdkOnly(), and, type.isUseCollectionUtility())))) {
    dl();_.ln();
    .out(" ");
    $(__, collectionUtility, type);
    _.ln();
}

dl();_.ln();
dl();
if ($if(type.detectAttributeBuilders())) {
    dl();_.ln();
    .out(" ");
    $(__, attributeBuilderTransformUtilities, type);
    _.ln();
}

dl();_.ln();
_.out("\n").ln();
_.dl();_it1.index++;
_it1.first = false;
}

dl();_.ln();
dl();
};

org.immutables.generator.Templates.Invokable extendsImplements() { return extendsImplements; }
private final org.immutables.generator.Templates.Invokable extendsImplements = new FragmentDispatch(1, 5);
void _t5__extendsImplements(org.immutables.generator.Templates.Invokation __) {
    __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
```

if ($if(type.isImplementing())) {
  $.ln();$.dl();
  $.out("implements ");
  $($.type.typeAbstract());
  $.dl();
  if ($if(type.serial.shouldImplement())) {
    $.dl();$.out(" , java.io.Serializable");
  }
}
$.dl();$.out(" ").ln();
}
else {
  $.dl();$.ln();
  $.out("extends ");
  $($.type.typeAbstract());
  $.dl();
  if ($if($not, type.serial.shouldImplement())) {
    $.dl();$.out(" ");
  }
}
else {
  $.dl();$.ln();
  $.out("implements java.io.Serializable ");
}
$.dl();$.ln();
}
$.dl();$.ln();
$.dl();
org.immutables.generator.Templates.Invokable generateSerialization() { return generateSerialization; }
private final org.immutables.generator.Templates.Invokable generateSerialization = new FragmentDispatch(1, 6);
void _t6__generateSerialization(org.immutables.generator.Templates.Invokation __) {
  $.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  $.ln();
  $.ln();
  if ($if(type.serial.isSimple())) {
    $.dl();$.ln();
    $.out(" ");
    $.dl();
    if ($if(type.isUseSimpleReadResolve())) {
      $.dl();$.ln();
      $.ln();
```java
__out("private Object readResolve() throws java.io.ObjectStreamException ").ln();
__dl();
if ($if(type.isUseSingletonOnly())) {
  __dl();__dl();__ln();
  __out(" return INSTANCE;").ln();
} else if ($if($(type.isUsePrehashed(), and, type.isUseCopyConstructor()))) {
  __dl();__ln();
  __out(" ");
$(___.generateReturnCopyRaw, type, "", "");
  __ln();
}
else {
  __dl();__ln();
  __out(" return ");
  {final org.immutables.value.processor.meta.ValueType type_validated_1881291508 = $cast(type);
   final java.lang.Boolean qualified_validated_1881291508 = $cast($false);
   final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = new org.immutables.generator.Templates.Fragment(0) {
     @Override public void run(org.immutables.generator.Templates.Invokation __) {
       __dl();final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = this;
       __out("this");
       __dl();
     });__dl();__dl();
  }___.dl();__dl();
  if ($if(type_validated_1881291508.isUseValidation())) {
    __dl();__dl();
    if ($if(qualified_validated_1881291508)) {
      __dl();$(___.type_validated_1881291508.typeImmutable().relativeRaw());
      __out(".");
    }
  }___.dl();__out("validate(");
  $(___.expression_validated_1881291508);
  __out(")");
}
else {
  __dl();$(___.expression_validated_1881291508);
}
__dl();
__out(";").ln();
}___.dl();__ln();
__out(""").ln();
__out(" ");
```
if ($if(type.serial.isStructural())) {
    __dl(); __ln();
    __ln();
    __out("/**").ln();
    __out(" * The serialized form captures the structural content of the value object.").ln();
    __out(" * providing the ability to reconstruct values with the capability to migrate").ln();
    __out(" * data. Uses optional, nullable, and provides flexible handling of").ln();
    __out(" * collection attributes.").ln();
    __out(" */").ln();
    $(__, atGenerated, type);
    __ln();
    __dl();
    if ($if(type.generics())) {
        __dl(); __ln();
        __out("@SuppressWarnings("unchecked")").ln();
    }
    __dl(); __ln();
    private static class SerialForm {
        final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
        final java.lang.Long serialVersion = $cast(type.serialVersionUID());
        final java.lang.String arr = $cast("[");
        final java.lang.String arri = $cast("[i");
        __dl(); __ln();
        __out("  private static final long serialVersionUID =").ln();
        __dl();
        if ($if(serialVersion)) {
            __dl(); __ln();
            __out($(__, literal, serialVersion)).ln();
        } else {
            __dl(); __out("0L");
        }
        __dl(); __ln();
        __out("  private final String names;").ln();
        __out("  private final Object values;").ln();
        __out("  SerialForm");
    }
} else {
    __dl(); __out("@Generated");
}
$(__, type.typeImmutable());
__.out(" instance { ").ln();
__.dl();
if ($if(type.isUseSingletonOnly())) {
  __.dl();__.ln();
  __.out(" this.names = new String");
  __(" ["]");
  __.out("{ ;} ").ln();
  __.out(" this.values = new Object");
  __(" ["]");
  __.out("{ ;} ").ln();
  __.ln();
  __.out(" Object readResolve() { ").ln();
  __.out(" return INSTANCE; ").ln();
  __.out(" } ").ln();
} else {
  __.dl();__.ln();
  __.out(" java.util.List<String> names = new java.util.ArrayList");
  __(__, asDiamond, "String");
  __.out(";");
  __(__, size, type.getSettableAttributes());
  __.out(";");ln();
  __.out(" java.util.List<Object> values = new java.util.ArrayList");
  __(__, asDiamond, "Object");
  __.out(";");
  __(__, size, type.getSettableAttributes());
  __.out(";");ln();
  __.out(" ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
  for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())) {
    __.dl();__.ln();
    __.out(" ");
    __.dl();
    if ($if(v.isCollectionType())) {
      __.dl();__.ln();
      __.out(" ");
      __.dl();
      if ($if(v.isNull())) {
        __.dl();___.out("if (instance.");
        __(__, v.names.get);
        __.out("() == null ")_;ln();
        __.out(" names.add(" ");
        __(__, v.name());
        __.out(" ");_.ln();
        __.out(" values.add(null); ").ln();
        __.out(" ") else ");
    } else {
if (!instance.
        .isEmpty()) {
    names.add("$
        .name()");
    values.add(instance.
        .toArray());
} else if ($if(v.isMapType())) {
    
    if ($if(v.isNullable()) {
        if (instance.
            .get == null) {
            names.add("$
                .name()");
            values.add(null);
        } else {
            if (!instance.
                .isEmpty()) {
                names.add("$
                    .name()");
                values.add(toArray(instance.
                    .get());
            } else {
                
            } else {
    
    } else {
    
    } else {
    
    }
} else {
    
    } else {
    
    } else {
    
    }
} else {
    
    } else {
    
    } else {
    
    }
}
} else if ($if(v.isOptionalType())) {
    __dl();__ln();
    __out("if (instance.");
$(__, v.names.get);
    __out("().");
    {final org.immutables.value.processor.meta.ValueAttribute a_optionalPresent_767352996 = $cast(v);
      __dl();
      if ($if($(a_optionalPresent_767352996.isFugueOptional(), or,
        a_optionalPresent_767352996.isJavaslangOptional())) {
        __dl();__out("isDefined");
      } else {
        __dl();__out("isPresent");
      }
    __dl();__out("()");
}
    __out("() ").ln();
    __out("  names.add("");
$(__, v.name());
    __out("\"");.ln();
    __out("  values.add(instance.");
$(__, v.names.get);
    __out("()");
    {final org.immutables.value.processor.meta.ValueAttribute a_optionalGet_1683307643 = $cast(v);
      __dl();
      if ($if(a_optionalGet_1683307643.isJdkSpecializedOptional())) {
        __dl();__out("getAs");
$(__, toUpper, a_optionalGet_1683307643.getElementType());
      } else {
        __dl();__out("get");
      }
    __dl();__out("()");
}
    __out(";").ln();
    __out("  ");.ln();
    __out("  ");
} else if ($if(v.isNull()) {
    __dl();__ln();
    __out("if (instance.");
$(__, v.names.get);
    __out("() != null) {").ln();
    __out("  names.add("");
$(__, v.name());
    __out("\"");.ln();
    __out("  values.add(instance.");
$(__, v.names.get);
    __out("()");
}
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __.dl();$(__, type.factoryBuilder().relative());
    __.out("()");
    __.dl();
  }});
  __.out(";").ln();
  __.ln();
  __.out("  for (int i = 0; i < names.length; i++) {").ln();
__out("      String name = names");
$(__, "[i]");
__out(";").ln();
__out("   ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
  for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())) {
    __dl();__ln();
    __out("      if ("v"");
    $(__, v.name());
    __out(".equals(name)) {").ln();
    __out("   ");
    __dl();
    if ($if(v.isCollectionType())) {
      __dl();__ln();
      __out("      ");
      __dl();
      if ($if(v.isNullable())) {
        __dl();__ln();
        if ($if(v.getWrappedElementType(), ne, "java.lang.Object")) {
          __dl();__ln();
        }
        __dl();
        for (Object e : toArray(values"));
        $(__, arri);__ln();
        __out("      builder.");
        $(__, v.names.init);__ln();
        __out("(null);").ln();
        __out("      continue;").ln();
        __out("   ");
        __out("   ");
      }
    }
    __dl();__ln();
    __out("      for (Object e : toArray(values"));
    $(__, arri);__ln();
    __out("      builder.");
    $(__, v.names.add());
    __out("      ");
    [final java.lang.String typename_castObject_2078309443 = $cast(v.getWrappedElementType());
    __dl();
    if ($if($typeof(type_castObject_2078309443, ne, "java.lang.Object"))) {
      __dl();__out("(");
      $(__, typename_castObject_2078309443);__out("   ");
    }
    __dl();
  }
__out("e");ln();
__out("    ").ln();
__out("  ");
} else if ($if(v.isMapType())) {
__dl();__ln();
__out("    ");
__dl();
if ($if(v.isNullable())) {
__dl();__ln();
__out("      ");
$(__, arri);
__out("        if (values");
$__(__), arri);
__out("      == null) {"").ln();
__out("        builder.");
$(__, v.names.init);
__out("(null);").ln();
__out("        continue;");.ln();
__out("    }").ln();
__out("      ");
}
__dl();__ln();
__out("  ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);
__dl();
if ($if($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable"))) {
__dl();__out("@javax.annotation.Nullable ");
}
__dl();
}
__out("Object");
$(__, arr);
__out("  entries = (Object");
$(__, arr);
__out("  ) values");
$(__, arr);
__out(";").ln();
__out("    if (entries != null) {"").ln();
__out("    for (int j = 0; j < entries.length; j += 2) {"").ln();
__out("    ");
{final org.immutables.generator.Templates.Iteration _it3 = new
org.immutables.generator.Templates.Iteration();
final java.lang.String j = $cast("[j]");
final java.lang.String j1 = $cast("[j + 1]");
__dl();__ln();
__out("        builder.");
$(__, v.names.put());
__out("    ");
{final java.lang.String typename_castObject_2078309443 = $cast(v.getWrappedElementType());
$(__, arri);
.__out("; ");.ln();
.__out(" ");

} else {
.__dl();__ln();
.__out(" builder.");
$(__, v.names.init);
.__out(" ");
{final java.lang.String typename_castObject_2078309443 = $cast(v.getWrapperType());
.__dl();
if ($if($typename_castObject_2078309443, ne, "java.lang.Object")) {
.__dl();__out("(");
$(__, typename_castObject_2078309443);
.__out(" ");
}
.__dl();
}
.__out(" toSingle(" ");
$(__, v.name());
.__out(" ", values");
$(__, arri);
.__out("");.ln();
.__out(" ");

}
.__dl();__ln();
.__out(" continue:").ln();
.__out(" ");.ln();
.__out(" ");
.__dl();_it2.index++;
_it2.first = false;
}
.__dl();__ln();
.__out(" ");.ln();
.__out(" return builder.");
$(__, type.names().build);
.__out(" ").ln();

} else {
.__dl();__ln();
.__out(" ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
final java.util.List<org.immutables.value.processor.meta.ValueAttribute> constructables = $cast(type.getConstructableAttributes());
.__dl();__ln();
}
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(constructables)) {
    __.dl(); __.ln();
    __.out("    ");
    __.dl();
    if ($if($(v.isCollectionType(), or, v.isMapType()))) {
        __.dl(); __.ln();
        __.out("    ");
        $(__, createBuilderForCollection, type, v, new org.immutables.generator.Templates.Fragment(0) {
            @Override public void run(org.immutables.generator.Templates.Invokation __) {
                __.dl();$(__, v.name());
                __.out("Builder");
                __.dl();
            }
        });
        __.ln();
        __.out("    ");
    } else if ($if(v.isOptionalType())) {
        __.dl(); __.ln();
        __.out("    ");
        $(__, v.getType());
        __.out(" ");
        $(__, v.name());
        __.out("Value = ");
    } else {
        __.dl(); __.out("absent");
    }
}
for (Object e : toArray(values)) {
    Builder.add(
        getObject(e),
        (Object)getValue(e));
} else if (isMapType()) {
    if (isNullable()) {
        if (values == null) {
            Builder = null;
            continue;
        }
    }
    Object entries = (Object) values;
}
final java.lang.String j = $cast("[j]");
final java.lang.String j1 = $cast("[j + 1]");
___dl();___ln();
___out(" ");
$(___, v.name());
___out("Builder.put(");

{final java.lang.String typename_castObject_2078309443 = $cast(v.getWrappedElementType());
   ___dl();
   if ($if($(typename_castObject_2078309443, ne, "java.lang.Object"))) {
      ___dl();___out("(");
      $(___, typename_castObject_2078309443);
      ___out(" ");
   }
   ___dl();
}
___out("entries");
$(___, j);
___out(",");

{final java.lang.String typename_castObject_2078309443 = $cast(v.getWrappedSecondaryElementType());
   ___dl();
   if ($if($(typename_castObject_2078309443, ne, "java.lang.Object"))) {
      ___dl();___out("(");
      $(___, typename_castObject_2078309443);
      ___out(" ");
   }
   ___dl();
}
___out("entries");
$(___, j1);
___out(";").ln();
___out(" ");
___dl();_it4.index++;
_it4.first = false;
}
___dl();___ln();
___out(" ");.ln();
___out(" ");.ln();
___out(" ");
} else if ($if(v.isOptionalType())) {
    __.dl();__ln();
    __.out("    if (values);
    __.out(" != null) {"),ln();
    __.out("        ");
    __.v.name();
    __.out("Value = ");
    final org.immutables.value.processor.meta.ValueAttribute a_optionalOf_332927268 = $cast(v);
    __.a_optionalOf_332927268.getRawType();
    __.out(".");
    __.dl();
    if ($if($not, a_optionalOf_332927268.isOptionalAcceptNullable())) {
        __.dl();__dl();
        if ($if($(a_optionalOf_332927268.isFugueOptional(), or,
            a_optionalOf_332927268.isJavaslangOptional())),
            a_optionalOf_332927268.isJdkOptional())) {
            __.dl();__out("some");
        } else {
            __.dl();__out("of");
        }
    } else {
        __.dl();
    }
    __.dl();} else if ($if(a_optionalOf_332927268.isJdkOptional())) {
        __.dl();__out("ofNullable");
    } else if ($if(a_optionalOf_332927268.isFugueOptional())) {
        __.dl();__out("option");
    } else if ($if(a_optionalOf_332927268.isJavaslangOptional())) {
        __.dl();__out("of");
    } else {
        __.dl();__out("fromNullable");
    }
    __.dl();
} else if ($if(v.getWrappedElementType());
    __.dl();
    if ($if($typename_castObject_2078309443, ne, "java.lang.Object");
        __.dl();
        __.typename_castObject_2078309443;__out(" ");
    } else {
        __.typename_castObject_2078309443;__out(" ");
    }
    __.dl();
} else if ($if($typename_castObject_2078309443, ne, "java.lang.Object");
    __.typename_castObject_2078309443;__out(" ");
}
__out(" ");__ln();
__out("   ");
} else if ($if($(v.isNullable(), or, v.isArrayType()))) {
__dl();__ln();
__out("  ");
$v(name());
__out("Value = ");
{final java.lang.String typename_castObject_2078309443 = $cast(v.getWrapperType());
__dl();
if ($if($(typename_castObject_2078309443, ne, "java.lang.Object"))) {
__dl();__out("(");
$v(name());
__out("values");
if ($if($(typename_castObject_2078309443, ne, "java.lang.Object"))) {
__dl();__out("(");
$v(name());
__out("toSingle(";
$v(name());
__out("", values");
if ($if($(typename_castObject_2078309443, ne, "java.lang.Object"))) {
__dl();__out("(");
$v(name());
__out("continue; ");__ln();
} else {
__dl();__ln();
__out("  ");
$v(name());
__out("Value = ");
} else {
__dl();
__out("toSingle(";
$v(name());
__out("", values");
$v(name());
__out(" ");
}

__out(" ");__ln();
__out("  ");
} else if ($if($(v.isNullable(), or, v.isArrayType()))) {
__dl();__ln();
__out("  ");
$v(name());
__out("Value = ");
{final java.lang.String typename_castObject_2078309443 = $cast(v.getWrapperType());
__dl();
if ($if($(typename_castObject_2078309443, ne, "java.lang.Object"))) {
__dl();__out("(");
$v(name());
__out("toSingle(";
$v(name());
__out("", values");
$v(name());
__out(" ");
}

__dl();__ln();
__out("  ");
}
if ($if(type.isUseConstructor())) {
    __.out("    ");
    __.out("        ");
    __.ln();
    __.out("      ");
    __.ln();
    __.out("      ");
    __.ln();
    __.out("    ");
    __.out("    ");
    $(__, type.typeValue().relative());
    __.out(" instance = ");
    $(__, type.factoryOf().relative());
    __.out("(");
    $(__.out(linesShortable, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __.dl();
            __.ln();
            __.out("  ");
            __.dl();
            if ($if($not, _it3.first)) {
                __.dl();
                __.out(",");
                __.dl();
            }
            __.ln();
            __.out("        ");
            __.dl();
        }
    }));
    __.ln();
    __.out("    ");
    __.ln();
    __.out("    ");
    __.ln();
    if ($if($v.isCollectionType(), or, v.isMapType())) {
        __.dl();
        if ($if($v.isNull())) {
            __.dl();
            $(__, v.name());
            __.out("Builder == null ? null : ");
        } else {
            __.dl();
            __.dl();
            __.out("Builder");
        }
    }
    __.dl();
    $(__, createBuiltCollection, type, v, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __.dl();
            __.out("Builder");
            __.dl();
        }
    });
} else {
    __.dl();
    $(__, v.name());
    __.out("Value");
}
```java
__.dl();__.dl();__it3.index++;
__it3.first = false;
})
__.dl();__.out(";");
__.dl();
}});
__.ln();
__.out(" ");
} else if ($if(type.isUseSingleton())) {
__.dl();__.ln();
__.out(" ");
$___.type.typeValue().relative();
__.out(" instance = ");
$___.type.factoryInstance().relative();
__.out("()").ln();
__.out(" ");
}
else {
__.dl();__.ln();
__.out(" ");
$___.output.error, new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
__.dl();__.out("Cannot generate code when there are no builder, constructor or singleton available");
__.dl();
}});
__.ln();
__.out(" ");

__.dl();__.ln();
__.out(" ");
{final org.immutables.generator.Templates.Iteration __it3 = new
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute o :
$in(type.getWithSettableAfterConstruction())) {
__.dl();__.ln();
__.out(" ");
__.dl();
if ($if($o.isCollectionType(), or, o.isMapType())) {
__.dl();__.ln();
__.out(" instance = instance.");
$___.o.names.with;
__.out("(");
__.dl();
if ($if(o.isNullable())) {
__.dl();$___.o.name();
__.out("Builder == null ? null : ");
````
@Override public void run(org.immutables.generator.Templates.Invokation __) {
    __.dl();$(__, o.name());
    __.out("Builder");
    __.dl();
    __.out(";").ln();
    __.out("\n");
    });
    __.out(";\n");
} else {
    __.dl();___.ln();
    ___.out(" if (\n");
    $(__, o.name());
    ___.out("Value != null) {\n");
    ___.out(" instance = instance.\n");
    $(__, o.names.with);
    ___.out("\n");
    $(__, o.name());
    ___.out("Value);\n");
    ___.out("\n");
    ___.out("\n");

    __.dl();___.ln();
    ___.out("\n");
    __.dl();___.it3.index++;
    ___.it3.first = false;
    }}
    __.dl();___.ln();
    ___.out(" return instance;\n");
    ___.out("\n");
    __.dl();___.it2.index++;
    ___.it2.first = false;
}
___.dl();___.ln();
___.out("\n");
___.ln();
___.out(" private static Object toSingle(String attribute, Object value) {\n");
__(, arr);
___.out("\n");
___.out(" Object\n");
__(, arr);
___.out(" elements = (Object\n");
if (elements.length == 1) {
    return elements[0];
} else {
    throw new type.getThrowForInvalidImmutableState()(
      "Cannot extract scalar value for attribute \"attribute\" from array of length \" + elements.length);
}

return value;
if ($if(type.hasSettableMapping())) {
  __dl();__ln();
  __out("  ");
  __dl();
  __dl();__ln();
  if ($if(type.hasSettableMapping())) {
    __dl();__ln();
    __ln();
    __out("  private static Object");
    $(__, "["]");
    __out("  Object");
    $(__, "]");
    __out("  data = new Object");
    $(__, "]");
    __out("entries.size() * 2");
    $(__, "]");
    __out(";").ln();
    __out("  int p = 0");
    __out("  for (java.util.Map.Entry<?, ?> e : entries) 
    __out("  data");
    $(__, "]");
    __out("p++");
    $(__, "]");
    __out("  = e.getKey");
    __out("  data");
    $(__, "]");
    __out("p++");
    $(__, "]");
    __out("  = e.getValue");
    __out("  return data");
    __out("  ");
  }
  return data;
}

private Object writeReplace() {
  return new SerialForm
org.immutables.generator.Templates.Invokable generateWithInterface() {
  return generateWithInterface;
}

private final org.immutables.generator.Templates.Invokable generateWithInterface = new FragmentDispatch(2, 7);

void _t7__generateWithInterface(org.immutables.generator.Templates.Invocation __) {
  __.dl();
  final org.immutables.value.processor.meta.ValueType type = __.cast(__.param(0));
  final java.lang.Boolean topLevel = __.if(__.param(1));
  __.dl();
  $(__, packageWhenTopLevel, type, topLevel);
  __.ln();
  __.ln();
  $(__, annotationsWhenTopLevel, type, topLevel);
  __.ln();
  __.ln();
  $(__, type.typeWith().access());
  __.out("interface ");
  $(__, type.typeWith().simple());
  $(__, type.generics());
  __.out(" ");
  __.out(" ");
  {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
   for (final org.immutables.value.processor.meta.ValueAttribute v : __.in(type.getSettableAttributes())) {
     __.dl();
     __.ln();
     __.out(" ");
     __.dl();
     if ($if(v.isArrayType())) {
       __.dl();
       __.ln();
       __.out("/**");
       __.out(" * Copy the current immutable object with elements that replace the content of ");
       {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = __.cast(v);
        __.ln();
        __.out(" ");
        __.out(" ");
        __.out(" */");
        __.out(" **/".");
        __.out(" ");
        __.out(" ");
        __.out(" @return A modified copy of { @code this } object");
        __.out(" ");
      }
     }
   }
   __.out(".");
   __.out(" * The array is cloned before being saved as attribute values.");
   __.out(" ");
   __.out(" @param elements The non-null elements for ");
   __.out(" ");
   __.out(" ");
   __.out(" ");
};
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {
__dl();__out("@Deprecated");
}
__dl();
__ln();
__out(" ");
$___.type.typeAbstract().relative();
__out(" ");
$___.v.names.with();
__out("(");
$___.v.getElementType();
__out("... elements);").ln();
__out(" ");
} else if ($if(v.isCollectionType())) {
__dl();__ln();
__ln();
__out(" /**
* Copy the current immutable object with elements that replace the content of */");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$___.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out(".").ln();
__out(" * @param elements The elements to set").ln();
__out(" * @return A modified copy of { @code this} object").ln();
__out(" */").ln();
__out(" ");
} final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {
__dl();__out("@Deprecation");
}
__dl();
__ln();
__out(" ");
} final org.immutables.value.processor.meta.ValueAttribute a_varargsSafetyAbstract_2026977502 = $cast(v);
__dl();
if ($if($a_varargsSafetyAbstract_2026977502.isNonRawElementType(), or,
a_varargsSafetyAbstract_2026977502.hasTypeVariables)) {
__dl();__out("@SuppressWarnings("varargs")");
}
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```java
  /**
   * Copy the current immutable object with elements that replace the content of 
   * @param elements An iterable of 
   * @return A modified copy of @code this
   */
```

```java
  if ($if(a_deprecation_286924011.deprecated)) {
    __dl();
    __out("@Deprecated");
  }
}
```

```java
  if ($if(v.isOptionalType())) {
    __dl();
    __out(" /* Copy the current immutable object by setting a <i>present</i> value for the optional ");
    __out(" */").ln();
```

```java
  __out(" /* A shallow reference equality check is used to prevent copying of the same value by returning
  { @code this }.*/").ln();
  __out(" /* @param elements An iterable of ");
```

```java
  if ($if(v.isOptionalType())) {
    __dl();
    __out(" /* Copy the current immutable object by setting a <i>present</i> value for the optional ");
    __out(" */").ln();
  }
```
$(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);

$(__, a_sourceDocRef_1518656892 = $cast(v);
$___.out(" attribute.").ln();
$___.out(" * @param value The value for ");
$(___.v.name());
$___.dl();
if ($if(v.isOptionalAcceptNullable())) {
  $___.dl();$___.out(" , {@code null} is accepted as {@code ");
  $final org.immutables.value.processor.meta.ValueAttribute a_optionalEmpty_1867206284 = $cast(v);
  $(___.a_optionalEmpty_1867206284.getRawType());
  $___.out(".");
  $___.dl();
  if ($if(a_optionalEmpty_1867206284.isJdkOptional())) {
    $___.dl();$___.out("empty");
  } else if ($if($a_optionalEmpty_1867206284.isFugueOptional(), or,
    a_optionalEmpty_1867206284.isJavaslangOptional())) {
    $___.dl();$___.out("none");
  } else {
    $___.dl();$___.out("absent");
  }
  $___.dl();$___.out("()");
}
$___.out(" }");

$___.dl();$___.ln();
$___.out(" * @return A modified copy of {@code this} object").ln();
$___.out(" *"").ln();
$___.out(" ");
$final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
$___.dl();
if ($if(a_deprecation_286924011.deprecated)) {
  $___.dl();$___.out("@Deprecated");
}
$___.dl();
$___.ln();
$___.out(" ");
$(___.type.typeAbstract().relative());
$___.out(" ");
$(___.v.names.with);
$___.out(" ");
```java
{final org.immutables.value.processor.meta.ValueAttribute a_unwrappedOptionalType_1615308684 = $cast(v);
  __dl();
  if ($if($if(a_unwrappedOptionalType_1615308684.isOptionalType(), and,
    a_unwrappedOptionalType_1615308684.isOptionalAcceptNullable()))
    __dl();$(__, atNullable, a_unwrappedOptionalType_1615308684);
    $(__, a_unwrappedOptionalType_1615308684.getWrappedElementType());
  } else {
    __dl();$(__, a_unwrappedOptionalType_1615308684.getUnwrappedElementType());
  }
  __dl();
  __out(" value").ln();
  __ln();
  __out("/**").ln();
  __out(" * Copy the current immutable object by setting an optional value for the ");
  {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
    $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
    __out(" attribute.").ln();
    __out(" * A shallow reference equality check on the optional value is used to prevent copying of the same
    value by returning [ @code this ]").ln();
    __out(" * @param optional A value for ");
    $(__, v.name());
    __ln();
    __out(" * @return A modified copy of [ @code this ] object");.ln();
    __out(" */").ln();
    __out(" ");
    {final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
      __dl();
      if ($if(a_deprecation_286924011.deprecated))
        __dl();__out("@Deprecated");
      }
      __dl();
      __ln();
      __out(" ");
      $(__, type.typeAbstract().relative());
      __out(" ");
      $(__, v.names.with);
      __out(" ");
      $(__, v.getRawType());
      __dl();
      if ($if($not, v.isJdkSpecializedOptional()))
        __dl();__out("<");
```
$(__, v.getConsumedElementType());
  __out(">");

}__dl();__out("optional;").ln();
__out(" ");
} else if ($if(v.isMapType())) {
__dl();__ln();
__out(" ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
final java.lang.String gE = $cast(v.getConsumedElementType());
final java.lang.String uK = $cast(v.getUnwrappedElementType());
final java.lang.String wK = $cast(v.getWrappedElementType());
final java.lang.String uV = $cast(v.getUnwrappedSecondaryElementType());
final java.lang.String wV = $cast(v.getWrappedSecondaryElementType());
__dl();__ln();
__ln();
__out("/**").ln();
__out(" * Copy the current immutable object by replacing the ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$__sourceDocLink, a_sourceDocRef_1518656892.names.raw);

}__out("map with the specified map.").ln();
__out(" * Nulls are not permitted as keys or values.").ln();
__out(" * A shallow reference equality check is used to prevent copying of the same value by returning
[@code this].").ln();
__out(" * @param entries The entries to be added to the ");
$__v.name());
__out(" map").ln();
__out(" * @return A modified copy of [@code this] object").ln();
__out(" */").ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {
  __dl();__out("@Deprecated");
}
__dl();
}
__ln();
__out(" ");
$__type.typeAbstract().relative());
__out(" ");
$__v.names.with();
__out(" ");
__dl();
if ($if(v.isMultimapType())) {
    __dl();___.guava;
    ___.out(".collec Multimap");
} else {
    __dl();___.out("java.util.Map");
}

__dl();___.out("<");
$___.gE;
___.out("? extends ");
$___.wV;
___.out("> entries").ln();
___.out(" ");
__dl();___.it2.index++;___.it2.first = false;

} else {
} else {

___dl();___ln();
___ln();
___out("/**").ln();
___out(" * Copy the current immutable object by setting a value for the ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$___.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);

} else {
___dl();___ln();
___ln();
___out(" */*").ln();
___out(" * A value equality check is used to prevent copying of the same value by returning @code this").ln();
___out(" ");
} else if ($if($(not, v.isPrimitive()))) {
___dl();___ln();
___out(" * A shallow reference equality check is used to prevent copying of the same value by returning @code this").ln();
___out(" ");
}

___dl();___ln();
___out(" * @param value A new value for ");
$___.v.name();
___dl();
if ($if(v.isNull())')
    __.dl();___.out(" (can be {@code null})");

}
___.dl();___.ln();
___.out(" * @return A modified copy of the { @code this} object");_.ln();
___.out(" */");_.ln();
___.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
___.dl();
if ($if(a_deprecation_286924011.deprecated)) {
    ___.dl();___.out("@Deprecated");
}
___.dl();
}
___.ln();
___.out(" ");
$___.type.typeAbstract().relative());
___.out(" ");
$___.v.names.with();
___.out(" ");
$___.v.atNullability());
$___.v.getType());
___.out(" value;");_.ln();
___.out(" ");
}
___.dl();___.ln();
___.out(" ");
___.dl();___.it1.index++;
___.it1.first = false;
}
___.dl();___.ln();
___.out("}");_.ln();
___.dl();
}

org.immutables.generator.Templates.Invokable generateJsonWithUnsupported() {
    return generateJsonWithUnsupported();
}
private final org.immutables.generator.Templates.Invokable generateJsonWithUnsupported = new FragmentDispatch(1, 8);
void _t8__generateJsonWithUnsupported(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    __.ln();
    __.dl();
    if ($if(type.isGenerateWithInterface()))
    __.dl();___.ln());
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())) {
  __dl(); __ln();
  __out("    ");
  if ($if(v.isArrayType())) {
    __dl();
    __out("    @Override");
    __dl();
    if ($if($(v.isNonRawElementType(), or, v.hasTypeVariables())) {
      __dl(); __out("    @SafeVarargs @SuppressWarnings("varargs")");
    }
    __dl();
    __out("public final ");
    $___. type.typeAbstract().relative();
    __out(" ");
    ___. v.names.with();
    __out("\n");
    ___. v.getUnwrappedElementType();
    __out("... elements) { throw new UnsupportedOperationException(); }\n    __out("\n");
    } else if ($if(v.isCollectionType())) {
    __dl(); __ln();
    __out("    @Override");
    __dl();
    if ($if($a_varargsSafety_1368213209.isNonRawElementType(), or, a_varargsSafety_1368213209.hasTypeVariables())) {
      __dl(); __out("    @SafeVarargs @SuppressWarnings("varargs")");
    }
  }
}
@Override
public $(__, type.typeAbstract().relative());
@Override
public $(__, v.names.with);

else if ($if(v.isOptionalType())) {

dl();
@Override
public $(__, type.typeAbstract().relative());
@Override
public $(__, v.names.with);

final org.immutables.value.processor.meta.ValueAttribute a_unwrappedOptionalType_1615308684 = $cast(v);
dl();
if ($if($a_unwrappedOptionalType_1615308684.isOptionalType(), and,
a_unwrappedOptionalType_1615308684.isOptionalAcceptNullable())) {

dl();$(__, atNullable, a_unwrappedOptionalType_1615308684);
$a_unwrappedOptionalType_1615308684.getWrappedElementType();
} else {

dl();$(__, a_unwrappedOptionalType_1615308684.getUnwrappedElementType());
}

dl();

} else if ($if(v.isMapType())) {

dl();$__out("@Override").ln();
$__out("public ");
$__out(" Map<");
$__out(" @Override").ln();
$__out(" public ");
$__out(" Map<");
$__out(" @Override").ln();
$__out(" public ");
$__out(" Map<");
$__out(" @Override").ln();
$__out(" public ");
$__out(" Map<");
$__out(" @Override").ln();
$__out(" public ");
$__out(" Map<");
final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
final java.lang.String gE = $cast(v.getConsumedElementType());
final java.lang.String uK = $cast(v.getUnwrappedElementOfType());
final java.lang.String wK = $cast(v.getWrappedElementOfType());
final java.lang.String uV = $cast(v.getUnwrappedSecondaryElementType());
final java.lang.String wV = $cast(v.getWrappedSecondaryElementType());

@Override
public $(__, type.typeAbstract().relative());

if ($if(v.isMultimapType())) {
  __dl();$___.guava;
  __out(".collect.Multimap");
} else {
  __dl();__out("java.util.Map");
}

@Override
public $(__, type.typeAbstract().relative());

if ($if(v.isMultimapType())) {
  __dl();___.guava;
  __out(".collect.Multimap");
} else {
  __dl();___.nullability();
  __out(" value) { throw new UnsupportedOperationException(); }").ln();
}
org.immutables.generator.Templates.Invokable generateInterning() { return generateInterning; }
private final org.immutables.generator.Templates.Invokable generateInterning = new FragmentDispatch(1, 9);
void _t9__generateInterning(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  __ln();
  __dl();
  if ($if($(!type.isUseStrongInterned(), or, type.isGenerateOrdinalValue()))) {
    __dl();__ln();
    __out(" ");
    __dl();
    if ($if(!$isSingleOnly)) {
      __ln();
      __ln();
      __out(" ");
      $(__, atGenerated, type);
      __ln();
      __out(" private static class InternProxy ");ln();
      __out(" final ");;
      $(__, type.typeImmutable().relativeRaw());
      __out(" instance;");ln();
      __ln();
      __out(" InternProxy;");
      $(__, type.typeImmutable().relativeRaw());
      __out(" instance) ");ln();
      __out(" this.instance = instance;"),ln();
      __out(" ");ln();
      __ln();
      __out(" @Override"),ln();
      __out(" public boolean equals(");
      {final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(type);
        __dl();
        if ($if($(!s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable"))) {
          __dl();__out("@javax.annotation.Nullable ");
          __out(" @javax.annotation.Nullable ");
        }
  }
}
__out("Object another) {").ln();
__out("      return another != null && instance.equalTo((InternProxy) another).instance;").ln();
__out("    }").ln();
__ln();
__out("    @Override").ln();
__out("    public int hashCode() {").ln();
__out("      return instance.hashCode();").ln();
__out("    }").ln();
__out("  }").ln();
if ($if(type.isUsePrehashed())) {
    __.dl();__.ln();
    __.out("    this.hashCode = instance.hashCode;\n").ln();
    __.out("  ");
}
___.dl();__.ln();
___.out("    this.domain = instance.domain;\n").ln();
___.out("    this.ordinal = ordinal;\n").ln();
___.out("  ");
___.ln();
___.out("  /**\n").ln();
$(__. type.name());
___.out(" } will be interned and registered with the domain.\n").ln();
___.out(" */\n").ln();
___.out("  ");
$(___. atGenerated, type);  
___.ln();
___.out("  public static final class Domain\n").ln();
___.out("  extends org.immutables.ordinal.InterningOrdinalDomain<InternProxy, \n");
$(___. type.typeAbstract());
___.out("> {\n").ln();
___.ln();
___.out("    private static final Domain INSTANCE = new Domain();\n");
___.ln();
___.out("    /** Construct the ordinal domain of \n");
$(___. type.typeImmutable());
___.out("\n").ln();
___.out("    public Domain() \n");
___.ln();
___.out("    protected \n");
$(___. type.typeAbstract());
___.out(" extractValue(InternProxy proxy, int ordinal) {\n").ln();
___.out("    return new \n");
$(___. type.typeImmutable());
___.out("\n").ln();
___.out("    }\n");
___.ln();
___.out("    \n");
    @Override
    public String toString() {\n      if (this == INSTANCE) return "
$(___. type.typeMoreObjects());
      return "\n"};
$(___. type.typeImmutable());
    }
$(___. type.typeMoreObjects());
    

    /**
     * Retrieves the static singleton instance of [link OrdinalDomain].
     * All instances that were not built with the specified domain will be bound to a static domain.
     * @return The ordinal domain of all instances
     */
    public static Domain get() {
      return INSTANCE;
    }

  }

  @Override
  public org.immutables.ordinal.OrdinalDomain<__> domain() {
    return domain;
  }

} else if ($if(type.isUseSingletonOnly())) {
  __dl();__dl();__ln();
} else if ($if(type.isUseInterned())) {
  __ln();

  private static final java.util.Map<__, java.lang.ref.WeakReference<__>> INTERNER =
      new java.util.WeakHashMap<>();

} else {
  __dl();__ln();

  private static final java.util.concurrent.ConcurrentHashMap<InternProxy, __> INTERNER =
      new java.util.concurrent.ConcurrentHashMap<>();

} else {
__out("INTERNER = ").ln();
__out(" new java.util.concurrent.ConcurrentHashMap<InternProxy, ");
$___.out(type.typeImmutable().relative());
__out("()").ln();
__out(" ");
}
__dl();__ln();
__out(" ");
}
else {
__dl();__ln();
__out(" ");
__dl();
if ($if(type.isUseWeakInterned)) {
__dl();__ln();
__out(" private static final ");
$___.guava;
__out(".collect.Interner<");
$___.type.typeImmutable().relative();
__out(" INTERNER = ");
$___.guava;
__out(".collect.Interners.newWeakInterner();").ln();
__out(" ");
}
else {
__dl();__ln();
__out(" private static final ");
$___.guava;
__out(".collect.Interner<InternProxy> INTERNER = ");
$___.guava;
__out(".collect.Interners.newStrongInterner();").ln();
__out(" ");
}
__dl();__ln();
__out(" ");
}
__dl();__ln();
org.immutables.generator.Templates.Invokable generateConstruction() {
return generateConstruction;
}
private final org.immutables.generator.Templates.Invokable generateConstruction = new FragmentDispatch(1, 10);
void _t10__generateConstruction(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  __ln();
  __dl();
  if ($if(!$type.isUseConstructor(), andnot, type.factoryOf().isNew())) {
    __dl();__ln();
    __out(" ");
    __dl();
    if ($if(type.requiresAlternativeStrictConstructor())) {
      __dl();__ln();
      __out(" /*");
      __out(" */\n\n\n\n/**").ln();
      __out(" * Construct a new immutable [@code ]");
      $(__, type.name());
      __out(" ] instance.");.ln();
      $(__, javadocGenerics, type);
      __ln();
    }
    __dl();__ln();
    __out(" * @param ");
    $(__, v.name());
    __out(" The value for the [@code ]");
    $(__, v.name());
    __out(" } attribute").ln();
    __dl();__it1.index++;
    __ln();
  }
  __dl();__ln();
  __out(" * @return An immutable ");
  $(__, type.name());
  __out(" instance").ln();
  __out(" */\n\n\n\npublic static ");
  $(__, type.generics().spaceAfter());
  $(__, type.typeValue());
  __out(" ");
  $(__, type.names().of);
  __out(" ");
  ${final org.immutables.generator.Templates.Iteration __it1 = new org.immutables.generator.Templates.Iteration();
  for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
    __dl();__ln();
    if ($if($(not, __it1.first))) {
      __dl();__out(" , ");
    }
    __dl();$(__, v.atNullability());
    $(__, eachLine, v.constructorParameterInjectedAnnotations());
  }$}
$}
$___.out("  ");
$___.out("  ");
___.dl();___.out("  ");
___.dl();_it1.index++;
_it1.first = false;
}
___.dl();___.out("  ");
___.out("  ");
$___.out("  ");
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
  ___.dl();___.dl();
  if ($if($(not, _it1.first))) {
    ___.dl();___.out("  ");
  }
  ___.dl();___.dl();
  if ($if(v.requiresAlternativeStrictConstructor())) {
    ___.dl();___.out("  ");
    $___.out("  ");
  }
  ___.dl();$___.name();
  ___.dl();_it1.index++;
  _it1.first = false;
}
___.dl();___.out("  ");
___.ln();
___.out("  ");
___.ln();
___.out("  */ *");
$(___.type.name());
___.out("  ");
$___.javadocGenerics(type);
___.ln();
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
  ___.dl();___.ln();
  ___.out("  ");
  $(___.v.name());
  ___.out("  ");
  $(___.v.name());
}
if ($if(type_validated_1881291508.isUseValidation())) {
  __dl();__out("validate(");
  $(___. expression_validated_1881291508);
  __out(")\n"));
} else {
  __dl();$(___. expression_validated_1881291508);
}
__dl();
__out("\n");
__out("\n");
__out("\n");
__dl();
if ($if(type.isUseOptionalAcceptNullableConstructor())) {
  __dl();__ln();
  __ln();
  __out(" /**\n");
  __out(" * Construct a new immutable { @code \n");
  $(___. type.name());
  __out(" } instance."\n");
  __out(" \n");
  $(___. javadocGenerics, type);
  __ln();
} final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
  __dl();__ln();
  __out(" * @param \n");
  $(___. v.name());
  __out(" The value for the { @code \n");
  $(___. v.name());
  __out(" } attribute"\n");
  __dl();_it1.index++;
@Override public void run(org.immutables.generator.Templates.Invokation __) {
    final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = this;
    $(__, type.typeImmutable().relativeRaw());
    $(__, type.generics().diamond());
    __out("(");
    final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
        if ($if($(not, _it1.first))) {
            __out(",
        }
        __dl();$__._it1.index++;
        _it1.first = false;
    }
    __out(")");
}
    __dl();$__._it1.first = false;
}
    __out(";");
    if ($if(type_validated_1881291508.isUseValidation())) {
        __dl();
        __out("validate(
            expression_validated_1881291508);
        __out(")");
    } else {
        __out("(");
    }
}
if ($if(type.isUseValidation())) {
  __.dl();__.ln();
  __.dl();
  if ($if(type.isUseJavaValidationApi())) {
    __.dl();__.ln();
    __.ln();
    __.out("  private static final javax.validation.Validator ");
    $(__, disambiguateField, type, "validator");
    __.out(" = javax.validation.Validation.buildDefaultValidatorFactory().getValidator;");.ln();
  }
  __.dl();__.ln();
  __.ln();
  __.out("  private static ");
  $(__, type.generics().spaceAfter());
  $(__, type.typeImmutable().relative());
  __.out(" validate(");
  $(__, type.typeImmutable().relative());
  __.out(" instance) {").ln();
  __.dl();
  if ($if(type.isUseJavaValidationApi())) {
    __.dl();__.ln();
    __.out("    java.util.Set<javax.validation.ConstraintViolation<");
    $(__, type.typeImmutable().relative());
    __.out(">>> constraintViolations = ");
    $(__, disambiguateField, type, "validator");
    __.out("validate(instance);").ln();
    __.out("    if (!constraintViolations.isEmpty()) {".ln();
    __.out("      throw new javax.validation.ConstraintViolationException(constraintViolations);").ln();
    __.out("    }").ln();
  }
  __.dl();__.ln();
} final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueType.ValidationMethod vm : $in(type.validationMethods)) {
  __.dl();__.ln();
  __.out("    ");
  __.dl();
  if ($if(vm.normalize)) {
    __.dl();__.ln();
    __.out("      instance = ");
    $(__, type.typeImmutable().relative());
__out("\ninstance.");
$(__, vm.name);
__out(";\n\n__out("\n");
}
__dl();__ln();
__dl();_it1.index++;
_it1.first = false;
}
__dl();__ln();
__dl();
if ($if(type.isUseSingletonOnly())) {
  __dl();__ln();
  __out("    return INSTANCE != null ? INSTANCE : instance;\n");
  __dl();__ln();
} else if ($if(type.isGenerateOrdinalValue())) {
  __dl();__ln();
  __out("    return (\n$(__, type.typeImmutable().relative());
  __out("      instance.domain.internOrdinal(new InternProxy(instance));\n");
  __dl();
} else if ($if(type.isUseInterned())) {
  __dl();
  if ($if(type.isGenerateJdkOnly())) {
    __dl();
    if ($if($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable"))) {
      __out("\n        @javax.annotation.Nullable \n    ");
      __dl();
    }
  }
  if ($if(type.isGenerateJdkOnly())) {
    __dl();
    __out("    \n");
    __dl();
  }
  if ($if(type.isUseWeakInterned())) {
    __dl();
    __out("    synchronized (INTERNER) \n");
    __out("    ");
    {final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(type);
      __dl();
      if ($if($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable", "javax.annotation.Nullable"))) {
        __dl();
        __out("    @javax.annotation.Nullable \n");
        }
      __dl();
    }
  }
}
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```java
__.out("java.lang.ref.WeakReference<");
$(__, type.typeImmutable().relative());
__.out(" > reference = INTERNER.get(instance);").ln();
__.out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(type);
  __dl();
  if ($if($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable")) {
    __dl();__out("@javax.annotation.Nullable ");
  }
  __dl();
}
$(__, type.typeImmutable().relative());
__.out(" interned = reference != null ? reference.get() : null;").ln();
__.out(" if (interned == null) {").ln();
__.out("     INTERNER.put(instance, new java.lang.ref.WeakReference<>(instance));").ln();
__.out("     interned = instance;").ln();
__.out("   }",1).ln();
__.out(" return interned;").ln();
__.out(" }").ln();
__.out(" ");
}
}

$(__, type.typeImmutable().relative());
__.out(" interned = INTERNER.putIfAbsent(new InternProxy(instance), instance);").ln();
__.out("   return interned != null ? interned : instance;").ln();
__.out(" ");
}

if ($if($s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable")) {
  __dl();__out("@javax.annotation.Nullable ");
}

}

$(__, type.typeImmutable().relative());
__.out(" interned = INTERNER.putIfAbsent(new InternProxy(instance), instance);").ln();
__.out("   return interned != null ? interned : instance;").ln();
__.out(" ");
}

if ($if(type.isUseWeakInterned())) {
  __dl();__ln();
  __out(" ");
}
```
void _t11__generateSingletonInstance(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  __ln();
  __dl();
  if ($if(type.isUseSingleton())) {
    __dl();__ln();
    __ln();
    if ($if(type.isUseValidation())) {
      __dl();__dl();
      __ln();
      __dl();
    }
  }
  __ln();
  __out(" private static final ");
  __out("");
  __out(" INSTANCE = ");
  __out("");
  final org.immutables.value.processor.meta.ValueType type_validated_1881291508 = $cast(type);
  final java.lang.Boolean qualified_validated_1881291508 = $cast($false);
  final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = new org.immutables.generator.Templates.Invokable() {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dl();final org.immutables.value.processor.meta.ValueType expression_validated_1881291508 = __;
      __out("new ");
      __out("(");
      __dl();
    }
  };__dl();__dl();
  if ($if(type_validated_1881291508.isUseValidation())) {
    __dl();
    if ($if(qualified_validated_1881291508)) {
      __dl();__out("validate(");
      __out("(");
      __dl();
    } else {
      __dl();
    }
  } else {
    __dl();
  }
  __ln();
  __out("/**");
  __out(" */");
  __out(" */");
}
public static $(__, type.typeValue().relative());
$__out(" ");
$__out(" ");
$__out(" ");
$__out(" ");
$__out(" ");
$__out(" ");
$__out(" ");
$__out(" ");
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$(__, type.typeAbstract().relative());
  __out(" instance") (" ").ln();
  __out(" if (instance instanceof ");
$(__, type.typeImmutable().relativeRaw());
$(__, type.generics().unknown);
  __out(" ") (" ").ln();
  __out(" return ");
$(__, type.typeImmutable().relative());
  __out(" instance:");.ln();
  __out(" ").ln();
  __dl();
  if ($if(type.isUseBuilder())) {
    __dl();__ln();
    __out(" return ");
    $(__, castBuildStagedBuilder, type, new org.immutables.generator.Templates.Fragment(0) {
      @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __dl();$(__, type.factoryBuilder().relative());
        __out("()");
        __dl();
      } });
    __ln();
    __out(" ");
    __dl();
    if ($if(type.isGenerateBuilderFrom())) {
      __dl();$(__, type.names().from);
      __out("(instance)").ln();
      __out(" ");
    } else {
      __dl();__ln();
      __out(" ");
      {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
       for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())) {
         __dl();__ln();
         __out(" ");
         __dl();
         if ($if(v.isEncoding())) {
           __dl();__ln();
           __out(" .");
           $(__, rr.builderCopyFrom(), v);
           __out("(instance,");
           $(__, v.names.get);
           __out(") ").ln();
           __out(" ");
         } else if ($if(v.isNull()) {
           __dl();__ln();
     }}}} else {
  }}}}
org.immutables.generator.Templates.Invokable generateLazyValues() { return generateLazyValues; }
private final org.immutables.generator.Templates.Invokable generateLazyValues = new FragmentDispatch(1, 13);
void _t13__generateLazyValues(org.immutables.generator.Templates.Invokation __) {
  __dl();
  final org.immutables.value.processor.meta.ValueType type = __cast(__param(0));
  __ln();
  final java.util.List<org.immutables.value.processor.meta.ValueAttribute> lz = __cast(type.getLazyAttributes());
if ($if(lz)) {
  __dl(); __ln();
  __out(" ");
  {final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
   final org.immutables.value.processor.meta.LongBits.LongPositions positions = $cast($($longsFor, lz));
   __dl(); __ln();
   __out(" ");
   {final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.LongBits.LongSet l : $in(positions.longs())) {
     __dl(); __ln();
     __out(" ");
     {final org.immutables.value.processor.meta.ValueType type_jsonIgnore_782971179 = $cast(type);
      __dl();
      if ($if(type_jsonIgnore_782971179.isGenerateJacksonIngoreFields())) {
       __dl(); __out("@com.fasterxml.jackson.annotation.JsonIgnore");
      }
     }
     __dl();
    }
    __ln();
    __out(" ");
    $(__, eachLine, type.syntheticFieldsInjectedAnnotations());
    __ln();
    __out(" ");
  } final org.immutables.value.processor.meta.ValueType type_hiddenMutableState_1091893888 = $cast(type);
  __dl();
  if ($if($type_hiddenMutableState_1091893888, allowsClasspathAnnotation, "com.google.errorprone.annotations.Immutable")) {
   __dl(); __out("@SuppressWarnings("Immutable")");
  }
  __dl();
}
__ln();
__out(" ");
$(__, emptyIfZero, l.index);
__out(";").ln();
__out(" ");
__dl(); __it3.index++;
_it3.first = false;
}
__dl(); __ln();
__out(" ");
{final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();}
for ((final org.immutables.value.processor.meta.ValueAttribute $ : $in($1z))) {
    $dl(); $ln();
    $out(" ");
    final org.immutables.generator.Templates.Invokable maskConstantName = new
    org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation $) {
            $dl(); final org.immutables.generator.Templates.Invokable maskConstantName = this;
            $out("_LAZY_INIT_BIT");
            $dl();
        }
    ); $dl(); $ln();
    $out(" ");
    final org.immutables.generator.Templates.Invokable bitmapFieldName = new
    org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation $) {
            $dl(); final org.immutables.generator.Templates.Invokable bitmapFieldName = this;
            $out("lazyInitBitmap");
            $dl();
        }
    ); $dl(); $ln();
    $out(" ");
    final org.immutables.generator.Templates.Invokable lazyVar = new
    org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation $) {
            $dl(); final org.immutables.generator.Templates.Invokable lazyVar = this;
            $out("disambiguateFieldRep, type, $l.name(), ",Slazy");
            $dl();
        }
    ); $dl(); $ln();
    $out(" ");
    final org.immutables.value.processor.meta.ValueType type_jsonIgnore_782971179 = $cast(type);
    $dl();
    if ($if(type_jsonIgnore_782971179.isGenerateJacksonIngoreFields())) {
        $dl(); $out("@com.fasterxml.jackson.annotation.JsonIgnore");
    }
    $dl(); $ln();
}
```java
$.out(" ");
$.eachLine(l.fieldInjectedAnnotations());
$.ln();
$.out(" ");
{final org.immutables.value.processor.meta.ValueType type_hiddenMutableState_1091893888 = $cast(type);
$.dl();
if ($if($($type_hiddenMutableState_1091893888, allowsClasspathAnnotation,
"com.google.errorprone.annotations.Immutable")) {
  $.dl();$.out("@SuppressWarnings("Immutable")");
}
$.dl();
$.ln();
$.out(" private transient ");
$.l.getType();
$.out(" ");
$.lazyVar;
$.out(".").ln();
$.ln();
$.out(" **").ln();
$.out(" * [@inheritdoc]").ln();
$.out(" * <p>").ln();
$.out(" * Returns a lazily initialized value of the ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(l);
$.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw};
}
$.out(" attribute.").ln();
$.out(" * Initialized once and only once and stored for subsequent access with proper
synchronization.").ln();
$.out(" * In case of any exception or error thrown by the lazy value initializer,").ln();
$.out(" * the result will not be memoised (i.e. remembered) and on next call computation"").ln();
$.out(" * will be attempted again.").ln();
$.out(" * @return A lazily initialized value of the { @code ");
$.l.name());
$.out("] attribute").ln();
$.out(" ");
{final org.immutables.generator.Templates.Iteration _it4 = new
org.immutables.generator.Templates.Iteration _it4 = new
org.immutables.generator.Templates.Iteration();
for (final java.lang.String t : $in(l.getThrownCheckedExceptions())) {  
$.dl();$.ln();
$.out(" * @throws ");
$.t);
$.out(" if undelying { @code ");
$.l.names.get();
$.out("] will throw it.").ln();
$.out(" ");
```
$(__, eachLine, l.accessorInjectedAnnotations());
$.ln();
$.out("   */").ln();
$.out("  ");
$.ln();
$.out("  @Override").ln();
$.out("  ");
$.dl();
if ($if(l.getThrownCheckedExceptions())) {
  $.dl();$.ln();
  $.out("  ");
  $(_.l.getAccess());
  $(_.l.getType());
  $.out("  ");
  $(_.output.linesShortable, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      $.dl();$(__, l.names.get);
      $.out("()"),ln();
      $.out("      throws ");
      {final org.immutables.generator.Templates.Iteration _it4 = new
       org.immutables.generator.Templates.Iteration();
        for (final java.lang.String t : $in(l.getThrownCheckedExceptions())) {
          $.dl();$.dl();
          if ($if($if(not, _it4.first))) {
            $.dl();$.dl();$.dl();$.dl();$.dl();$.dl();
          }
          $.dl();$.dl();$.dl();$.dl();$.dl();$.dl();
        }
      }
  });
} else {
  $.dl();$.ln();
  $.out("  ");
  $(_.l.getAccess());
  $(_.l.getType());
  $.out("  ");
  $(_.l.names.get);
  $.out("()"),ln();
__out("  ");
}
__dl():__ln();
__out("    if (";
$(__, bitmapFieldName);
__out(" & ");
$(__, maskConstantName);
__out(") == 0) {").ln();
__out("      synchronized (this) {").ln();
__out("         if (";
$(__, bitmapFieldName);
__out(" & ");
$(__, maskConstantName);
__out(") == 0) {").ln();
__out("     this.");
$(__, lazyVar);
__out(" = ");
    final org.immutables.value.processor.meta.ValueAttribute v_maybeNonNullValue_1844859357 = $cast(l);
    final org.immutables.generator.Templates.Invokable expression_maybeNonNullValue_1844859357 = new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __dl();final org.immutables.generator.Templates.Invokable expression_maybeNonNullValue_1844859357
            = this;
            $(__, invokeSuper, l);
            __out(".");
            $(__, l.names.get);
            __out("()");
            __dl();
        };
    } __dl();__dl();
    if ($if($v_maybeNonNullValue_1844859357.isPrimitive(), or,
    v_maybeNonNullValue_1844859357.isNullable())) {
        __dl();$(__, expression_maybeNonNullValue_1844859357);
    } else {
        __dl();$(__, requireNonNull, v_maybeNonNullValue_1844859357.containingType);
        __out("(");
        $(__, expression_maybeNonNullValue_1844859357);
        __out(";");
        $(__, v_maybeNonNullValue_1844859357.name());
        __out("\n");
    }
    __dl();
}
__out(";").ln();
__out("  ");
$(__, bitmapFieldName);
org.immutables.generator.Templates.Invokable castBuildStagedBuilder() { return castBuildStagedBuilder; }
private final org.immutables.generator.Templates.Invokable castBuildStagedBuilder = new FragmentDispatch(2, 14);
void _t14__castBuildStagedBuilder(org.immutables.generator.Templates.Invokation __) {
  __.dl();final org.immutables.value.processor.meta.ValueType type = __.param(0);
  final java.lang.String expression = __.param(1).toString();
  {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    final org.immutables.value.processor.meta.TelescopicBuild tb = __.cast(type.getTelescopicBuild());
    __.dl();___.ln();
    __.dl();___.ln();
    __.dl();___.ln();
    __.dl();
    __.dl();
    __.dl();
    __.dl();
  } else {
    __.dl();
  }
}
org.immutables.generator.Templates.Invokable factoryBuildStageBuilderType() { return
factoryBuildStageBuilderType; }
private final org.immutables.generator.Templates.Invokable factoryBuildStageBuilderType = new
FragmentDispatch(1, 15);
void _t15__factoryBuildStageBuilderType(org.immutables.generator.Templates.Invokation __) {
    final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    final org.immutables.value.processor.meta.TeslescopicBuild tb = $cast(type.getTeslescopicBuild());
    if ($if(tb)) {
        final org.immutables.generator.Templates.Iteration _it2 = new
org.immutables.generator.Templates.Iteration();
        for (final org.immutables.value.processor.meta.TeslescopicBuild.TelescopicStage nt : $in(tb.stages)) {
            final org.immutables.value.processor.meta.ValueAttribute v = $cast(nt.attribute);
            $(__, toUpper, v.name());
            $out("BuildStage");
            $(__, type.generics().args());
        }
    } else {
        _it1.index++;
        _it1.first = false;
    }
}

org.immutables.generator.Templates.Invokable teslescopicBuilderImplementInterfaces() { return
teslescopicBuilderImplementInterfaces; }
private final org.immutables.generator.Templates.Invokable teslescopicBuilderImplementInterfaces = new
FragmentDispatch(1, 16);
void _t16__teslescopicBuilderImplementInterfaces(org.immutables.generator.Templates.Invokation __) {
    final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    final org.immutables.value.processor.meta.TeslescopicBuild tb = $cast(type.getTeslescopicBuild());
    if ($if(tb)) {
        final org.immutables.generator.Templates.Iteration _it2 = new
org.immutables.generator.Templates.Iteration();
        for (final org.immutables.value.processor.meta.TeslescopicBuild.TelescopicStage nt : $in(tb.stages)) {
            final org.immutables.value.processor.meta.ValueAttribute v = $cast(nt.attribute);
            $(__, toUpper, v.name());
            $out("BuildStage");
            $(__, type.generics().args());
        }
    } else {
        _it2.index++;
        _it2.first = false;
    }
}
private final org.immutables.generator.Templates.Invokable generateTelescopicBuilderInterfaces = new FragmentDispatch(1, 17);

void _t17__generateTelescopicBuilderInterfaces(org.immutables.generator.Templates.Invokation __) {

    final org.immutables.value.processor.meta.TelescopicBuild tb = $cast(type.getTelescopicBuild());

    if ($if(tb)) {

        final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
        for (final org.immutables.value.processor.meta.TelescopicBuild.TelescopicStage nt : $in(tb.stages)) {

            final org.immutables.value.processor.meta.ValueAttribute v = $cast(nt.attribute);

            final org.immutables.generator.Templates.Invokable builderReturn = new

                org.immutables.generator.Templates.Fragment(0) {
                    @Override public void run(org.immutables.generator.Templates.Invokation __) {

                        if ($if(nt.next)) {
                            $(__, toUpper, nt.next.attribute.name());
                            __out("BuildStage");
                            $(__, type.generics().args());
                        } else {
                            __out("BuildFinal");
                            $(__, type.generics().args());
                        }

                    }
                };

        }
    }

    final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));

    if ($if(tb)) {

        final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
        for (final org.immutables.value.processor.meta.TelescopicBuild.TelescopicStage nt : $in(tb.stages)) {

            final org.immutables.value.processor.meta.ValueAttribute v = $cast(nt.attribute);

            final org.immutables.generator.Templates.Invokable builderReturn = this;

            if ($if(nt.next)) {
                $(__, toUpper, nt.next.attribute.name());
                __out("BuildStage");
                $(__, type.generics().args());
            } else {
                __out("BuildFinal");
                $(__, type.generics().args());
            }

        }
    }
}


```java
__dl();__it2.index++;  
_it2.first = false;  
}
__dl();__ln();  
__ln();  
$__(_.atGenerated, type);  
__ln();  
__.out("public interface BuildFinal");  
$__(_.type.generics());  
__.out(" {").ln();  
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();  
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(tb.finals)) {  
__dl();__ln();  
__dl();  
if ($if(v.isEncoding())) {  
__dl();__ln();  
__.out(" ");  
__dl();__ln();  
} else if ($if(v.isCollectionType())) {  
__dl();__ln();  
__ln();  
__.out(" /**").ln();  
__.out(" * Adds one element to ");  
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);  
$__(_.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);  
}
__out(" ");  
$__(_.toLowerCase, v.getRawCollectionType());  
__.out(".").ln();  
__.out(" @param element A ");  
$__(_.v.name());  
__.out(" element").ln();  
__.out(" * @return { @code this} builder for use in a chained invocation").ln();  
__.out(" */").ln();  
__.out(" ");  
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);  
__dl();  
if ($if(a_deprecation_286924011.deprecated)) {  
__dl();__.out("@Deprecated");  
}
__dl();  
__ln();  
__.out(" BuildFinal");  
$__(_.type.generics().args());  
__.out(" ");
```

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$(__, v.names.add());
  __.out("(");
$(__, v.getUnwrappedElementType());
  __.out(" element");).ln();
  __.ln();
  __.out(" /**").ln();
  __.out(" * Adds elements to ");
  [final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);

  __.out(" ");
$(__, toLower, v.getRawCollectionType());
  __.out(".").ln();
  __.out(" * @param elements An array of ");
$(__, v.name());
  __.out(" elements").ln();
  __.out(" * @return {@code this} builder for use in a chained invocation").ln();
  __.out(" */").ln();
  __.out(" ");
  [final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
   __.dl();
   if ($if(a_deprecation_286924011.deprecated)) {
     __.dl();___.out("@Deprecated");

   }
   __.dl();
  }
  __.ln();
  __.out(" BuildFinal");
$(__, type.generics().args());
  __.out(" ");
$(__, v.names.addv());
  __.out("(");
$(__, v.getUnwrappedElementType());
  __.out("... elements");).ln();
  __.ln();
  __.out(" /**").ln();
  __.out(" * Adds elements to ");
  [final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);

  __.out(" ");
$(__, toLower, v.getRawCollectionType());
  __.out(".").ln();
  __.out(" * @param elements An iterable of ");
$(__, v.name());
__out(" elements").ln();
__out(" * @return \{@code this\} builder for use in a chained invocation\}").ln();
__out(" */").ln();

{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {
__dl();__out("@Deprecated");
}
__dl();
__ln();
__out(" BuildFinal");
$___.type.generics().args();
__out(" ");
$___.v.names.addAll();
__out("(Iterable<");
$___.v.getConsumedElementType();
__out(" > elements");).ln();
} else if ($if(v.isOptionalType())) {
__dl();__ln();
__ln();
__out(" /**").ln();
__out(" * Initializes the optional value ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$___.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out(" to ");
$___.v.name();
__out(".").ln();
__out(" * @param ");
$___.v.name();
__out(" The value for ");
$___.v.name();
__dl();
if ($if(v.isOptionalAcceptNullable())) {
__dl();__out("[ @code null\] is accepted as \{@code ");
{final org.immutables.value.processor.meta.ValueAttribute a_optionalEmpty_1867206284 = $cast(v);
$___.a_optionalEmpty_1867206284.getRawType();
__out(".");
__dl();
if ($if(a_optionalEmpty_1867206284.isJdkOptional())) {
__dl();__out("empty");
} else if ($if(a_optionalEmpty_1867206284.isJavaslangOptional(), or,
JavaslangOptional())) {
__dl();__out("none");
}
} else {
  __.dl();___.out("absent");
}

___.dl();___.out("()");
}
___.out("\n");
___.out("   * @return {@code this} builder for chained invocation\n");___.out("   */\n");

{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
  ___.dl();
  if ($if(a_deprecation_286924011.deprecated)) {
    ___.dl();___.out("@Deprecated\n");
  }
  ___.ln();
  ___.out(" BuildFinal\n");
  $(___.type.generics().args());
  ___.out("\n");
  $(___.v.names.init);
  ___.out("\n");
  [final org.immutables.value.processor.meta.ValueAttribute a_unwrappedOptionalType_1615308684 = $cast(v);
    ___.dl();
    if ($if($(a_unwrappedOptionalType_1615308684.isOptionalType(), and,
      a_unwrappedOptionalType_1615308684.isOptionalAcceptNullable()))) {
      ___.dl();$(___.atNullable, a_unwrappedOptionalType_1615308684);
      $(___.a_unwrappedOptionalType_1615308684.getWrappedElementType());
    } else {
      ___.dl();$(___.a_unwrappedOptionalType_1615308684.getUnwrappedElementType());
    }
    ___.dl();
    ___.out("\n");$(___.v.name());
    ___.out("\n");___.ln();
    ___.ln();
    ___.out("/**\n");}
final java.lang.String wK = $cast(v.getWrappedElementType());
final java.lang.String uV = $cast(v.getUnwrappedSecondaryElementType());
final java.lang.String wV = $cast(v.getWrappedSecondaryElementType());
__.dl();__.ln();
__.out(" ");
__.dl();
if ($if(v.isMultimapType())) {
  __.dl();__.ln();
  __.ln();
  __.out(" /**").ln();
  __out(" * Put all mappings from the specified key to values for ");
  {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
    $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
  }
  __out(" ");
  $(__, toLower, v.isMapType());
  __out(" . Nulls are not permitted").ln();
  __out(" * @param key The key for ");
  $(__, v.name());
  __.ln();
  __out(" * @param values The values for ");
  $(__, v.name());
  __.ln();
  __out(" * @return { @code this } builder for use in a chained invocation").ln();
  __out(" */").ln();
  __out(" ");
  {final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
    __.dl();
    if ($if(a_deprecation_286924011.deprecated)) {
      __.dl();__.out("@Deprecated");
    }
    __.dl();
  }
  __.ln();
  __out(" BuildFinal");
  $(__, type.generics().args());
  __out(" ");
  $(__, v.names.putv());
  __out("()");
  $(__, uK);
  __out(" key, ");
  $(__, uV);
  __out("... values");.ln();
  __.ln();
  __out(" /*").ln();
  __out(" * Put all mappings from the specified key to values for ");
```java
}.__out(" ");
___.out( " ");  
___.out(" \n");
___.out(" * @return { @code this} builder for use in a chained invocation").ln();
___.out(" */").ln();
___.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
___.dl();
if ($if(a_deprecation_286924011.deprecated)) {
    ___.dl();___.out("@Deprecated");
}
}
___.dl();
}
___.ln();
___.out(" BuildFinal");
___.out(" ");
___.out(" ");
___.out(" ");
___.out(" ");
___.out(" ");
___.out(" ");
___.out(" ");
___.out(" ");
___.dl();___.ln();
___.ln();
___.out(" /**").ln();
___.out(" * Put one entry to the ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
___.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
___.out(" ");
___.out(" ");
___.out(" ");
___.out(" ");
___.out(" ");
___.out(" ");
___.out(" ");
___.out(" ");
___.out(" ");
___.out(" ");
___.out(" ");
___.out(" ");
___.out(" ");
___.out(" ");

[final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$$(___.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}

___.dl();___.ln();
___.ln();
___.out(" ");
___.out(" ");
___.out(" ");
___.out(" ");
___.out(" ");
___.out(" ");

[final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
___.dl();
if ($if(a_deprecation_286924011.deprecated)) {
    ___.dl();
}
}
___.ln();
___.out(" ");
___.out(" ");
___.out(" ");

[final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$$(___.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}

___.out(" ");
___.out(" ");
___.out(" ");
___.out(" ");
___.out(" ");
___.out(" ");
___.out(" ");
___.out(" ");
```
    __out(" map").ln();
    __out(" * @param value The associated value in the ");
$(__, v.name());
    __out(" map").ln();
    __out(" * @return [@code this] builder for use in a chained invocation").ln();
    __out(" */").ln();
    __out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
    __dl();
    if ($if(a_deprecation_286924011.deprecated)) {
        __dl(__out("@Deprecated");
        }
    __dl();
}__ln();
    __out(" BuildFinal");
$(__, type.generics().args());
    __out(" ");
$(__, v.names.put());
    __out("(");
$(__, uK);
    __out(" key, ");
$(__, uV);
    __out(" value");.ln();
    __ln();
    __out(" /**").ln();
    __out(" * Put one entry to the ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
    __dl();
    $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
    }
    __out(" map. Nulls are not permitted").ln();
    __out(" * @param entry The key and value entry").ln();
    __out(" * @return [@code this] builder for use in a chained invocation").ln();
    __out(" */").ln();
    __out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
    __dl();
    if ($if(a_deprecation_286924011.deprecated)) {
        __dl(__out("@Deprecated");
        }
    __dl();
}
```java
__.out(" ");
$___.v.names.put();
__.out("(java.util.Map.Entry<");
$___.gE();
__.out("?, ? extends ");
$___.wV();
__.out(" > entry);").ln();
__.ln();
__.out(" /**").ln();
__.out(" * Put all mappings from the specified map as entries to ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$___.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw;
}
__.out(" map. Nulls are not permitted").ln();
__.out(" * @param entries The entries that will be added to the ");
$___.v.name());
__.out(" map").ln();
__.out(" * @return [@code this] builder for use in a chained invocation").ln();
__.out(" */").ln();
__.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
  ___.dl();
  if ($if(a_deprecation_286924011.deprecated)) {
    ___.dl();__.out("@Deprecated");
  }
  ___.dl();
}  ___.ln();
__.out(" BuildFinal");
$___.type.generics().args());
__.out(" ");
$___.v.names.putAll());
__.out(" ");
__.dl();
if ($if(v.isMultimapType())) {
  ___.dl();$___.guava;  ___.out(" .collect.Multimap");
} else {
  ___.dl();__.out("java.util.Map");
}
  ___.dl();__.out("<");
$___.gE();
__.out("?, ? extends ");
$___.wV();
```

__out(">");
__out(" ");
__dl();
_it3.index++;
_it3.first = false;
}
__dl();
__ln();
} else if ($if(v.isArrayType())) {
__dl();
__ln();
__out(" ");
__out("/**");
__out(" * Initializes the value for the ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out(" ");
__out(" ");
__dl();
}
__ln();
} else if ($if(v.isGenerateDefault)) {
__dl();
__ln();
__out(" ");
__out(" */");
__out(" If not set, this attribute will have a default value as defined by ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out(",</em>");
__ln();
__out(" ");
__dl();
__ln();
__out(" * @param elements The elements for ");
$(__, v.name());
__ln();
__out(" * @return { @code this} builder for use in a chained invocation").
__out(" */");
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {
__dl();
__out("@Deprecated");
}
__dl();
__ln();
__out(" BuildFinal");
$(__, type.generics().args());
__out(" ");
$(__, v.names.init);
  __.out("(");
$(__, v.getElementType());
  __.out(" ... elements").ln();
}

} else {
  __.dl(); __.ln();
  __.ln();
  __.out("/**").ln();
  __.out(" * Initializes the value for the ");
  {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
   $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
  }
  __.out(" attribute.").ln();
  __.out(" ");
  __.dl();
  if (Sif(v.isGenerateDefault)) {
    __.dl(); __.ln();
    __.out(" * <p><em> If not set, this attribute will have a default value as returned by the initializer of ");
    {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
     $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
    }
    __.out(",</em>").ln();
    __.out(" ");
  }
  __.dl(); __.ln();
  __.out(" */");
  $(__, v.name());
  __.out(" The value for ");
  $(__, v.name());
  __.out(" ");
  __.dl();
  if (Sif(v.isNullable())) {
    __.dl(); __.out("(can be {code null})");
  }
  __.dl(); __.ln();
  __.out(" * @param ");
  $(__, v.name());
  __.out(" The value for ");
  $(__, v.name());
  __.out(" ");
  __.dl();
  if (Sif(v.isNullable())) {
    __.dl(); __.out("(can be {code null})");
  }
  __.dl(); __.ln();
  __.out(" * @return {code this} builder for use in a chained invocation");.ln();
  __.out(" */").ln();
  __.out(" ");
  {final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
   __.dl();
   if (Sif(a_deprecation_286924011.deprecated)) {
     __.dl(); __.out("@Deprecated");
   }
  }
```java
__dl();
__ln();
__.out("  BuildFinal");
$(__, type.generics().args());
__.out(" ");
$(__, v.names.init);
__.out("(");
$(__, v.atNullability());
$(__, v.getType());
__.out(" ");
$(__, v.name());
__.out(");
$.ln();

__dl();__ln();
__dl();_it2.index++;
_it2.first = false;
}
__dl();__ln();
__ln();
__.out("/**").ln();
__.out("  * Builds a new { @link ");
$(__, type.typeValue().relativeRaw());
__.out(" ");
$(__, type.typeValue().simple());
__.out(".");
__.out("  * @return An immutable instance of ");
$(__, type.name());
__.ln();
__.out("  * @throws ");
$(__, type.getThrowForInvalidImmutableState());
__.out(" if any required attributes are missing");
__.out(" ");
__.out(" ");
$(__, type.typeValue().relative());
__.out(" ");
$(__, type.names().build);
__.out(";");
__.out(");
$.ln();

}
__dl();__ln();
__dl();_it1.index++;
_it1.first = false;
}
__dl();__ln();
org.immutables.generator.Templates.Invokable generateBuilder() { return generateBuilder; }
private final org.immutables.generator.Templates.Invokable generateBuilder = new FragmentDispatch(2, 18);
void _t18__generateBuilder(org.immutables.generator.Templates.Invocation __) {
__dl(); final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
final java.lang.Boolean topLevel = $if(__.param(1));
__ln();
$___packageWhenTopLevel, type, topLevel);
__ln();
{ final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
final java.util.List<org.immutables.value.processor.meta.ValueAttribute> setters = $cast(type.getSettableAttributes());
final java.util.List<org.immutables.value.processor.meta.ValueAttribute> getters = $cast(type.getImplementedAttributes());
final java.util.List<org.immutables.value.processor.meta.ValueAttribute> mandatories = $cast(type.getMandatoryAttributes());
final java.util.List<org.immutables.value.processor.meta.ValueAttribute> nondefaults = $cast(type.getRequiresTrackedIsSetNonMandatoryAttributes());
final org.immutables.value.processor.meta.LongBits.LongPositions positions = $cast($(longsFor, mandatories));
final org.immutables.value.processor.meta.LongBits.LongPositions nondefaultsPositions = $cast($(longsFor, nondefaults));
__dl(); __ln();
__ln();
__out("/**").ln();
__dl();
if ($if(type.kind().isFactory())) {
__dl(); __ln();
__out(" * \{ @code ");
$__. type.typeBuilderImpl().simple();
__out("} collects parameters and invokes the static factory method: ").ln();
__out(" * \{ @code ");
$__. type.factoryOf();
__out("(...)\}.ln();
__out(" * Call the \{ @link \#\}");
$__. type.names().build);
__out("()\} method to get a result of type \{ @code ");
$__. type.typeValue();
__out("\}\.ln();
} else {
__dl(); __ln();
__out(" * Builds instances of type \{ @link ");
$__. type.typeValue().relativeRaw();
__out("\}");
$__. type.typeValue().simple();
__out("\}\.ln();
}
* Initialize attributes and then invoke the \{@link #\} method to create an immutable instance.

* <p><em>@code {\$(__, type.typeBuilderImpl().simple())} is not thread-safe and generally should not be stored in a field or collection.</em></p>

*/

@javax.annotation.concurrent.NotThreadSafe

@javax.annotation.concurrent.NotThreadSafe
if ($if(type.getInnerBuilder().isInterface)) {
    __dl();__ln();
    __out("  implements ");
    $(___.type.typeAbstract().relativeRaw());
    __out(".");
    $(___.type.getInnerBuilder().simpleName);
    $(___.type.getInnerBuilder().generics.args());
    __dl();
    if ($if(type.getTelescopicBuild())) {
        __dl();__out(" , ");
        $(__, telescopicBuilderImplementInterfaces, type);
    }
    __dl();__out(" {").ln();
    __out("  ");
}
} else {
    __dl();__ln();
    __out("    extends ");
    $(___.type.typeAbstract().relativeRaw());
    __out(".");
    $(___.type.getInnerBuilder().simpleName);
    $(___.type.getInnerBuilder().generics.args());
    __dl();
    if ($if(type.getTelescopicBuild())) {
        __dl();__ln();
        __out("    implements ");
        $(__, telescopicBuilderImplementInterfaces, type);
    }
    __dl();__out(" {").ln();
    __out("  ");
}
} else if ($if(type.getTelescopicBuild())) {
    __dl();__ln();
    __out("    implements ");
    $(__, telescopicBuilderImplementInterfaces, type);
    __out(" {").ln();
    __out("  ");
}
else {
    __dl();__out(" ").ln();
    __out("  ");
}
if ($if(type.constitution.isOutsideBuilder())) {
    $__dl();__ln();
    __out(" ");
    $(__, rr.staticFields(), setters);
    __ln();
    __out(" ");
    $(__, rr.staticMethods(), setters);
    __ln();
}
__dl();__ln();
__out(" ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
 for (final org.immutables.value.processor.meta.ValueAttribute m : Sin(mandatories)) {
 final org.immutables.value.processor.meta.LongBits.BitPosition pos = $cast($positions, m);
__dl();__ln();
__out(" private static final long INIT_BIT_");
$__out(" ");
$__out(" = ");
$__out(" ");
__dl();__it2.index++;
_it2.first = false;
}
__dl();__ln();
__out(" ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
 for (final org.immutables.value.processor.meta.ValueAttribute p : Sin(nondefaults)) {
 final org.immutables.value.processor.meta.LongBits.BitPosition pos = $cast($nondefaultsPositions, p);
__dl();__ln();
__out(" private static final long OPT_BIT_");
$__out(" ");
$__out(" = ");
$__out(" ");
__dl();__it2.index++;
_it2.first = false;
}
__dl();__ln();
__out(" ");
$__out(" ");
$__out(" ");
$__out(" ");
$(__, rr.builderStaticFields(), setters);
__ln();
\texttt{\_\_out(" 
");
{final org.immutables.generator.Templates.Iteration \_it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.LongBits.LongSet l : $in(positions.longs())) {
  \_dl();\_ln();
  \_out(" 
");
  $(_\_, eachLine, type.syntheticFieldsInjectedAnnotations());
  \_ln();
  \_out(" private long ");
  $(_\_, disambiguateField, type, "initBits");
  $(_\_, emptyIfZero, l.index);
  \_out(" = ");
  $(_\_, literal.hex, l.occupation);
  \_out(";").ln();
  \_out(" ");
  \_dl();\_it2.index++;
  \_it2.first = false;
}
\_dl();\_ln();
\_out(" 
");
{final org.immutables.generator.Templates.Iteration \_it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.LongBits.LongSet l : $in(nondefaultsPositions.longs())) {
  \_dl();\_ln();
  \_out(" 
");
  $(_\_, eachLine, type.syntheticFieldsInjectedAnnotations());
  \_ln();
  \_out(" private long ");
  $(_\_, disambiguateField, type, "optBits");
  $(_\_, emptyIfZero, l.index);
  \_out(";").ln();
  \_out(" ");
  \_dl();\_it2.index++;
  \_it2.first = false;
}
\_dl();\_ln();
\_out(" 
");
\_dl();
if ($if($(positions.longs(), or, nondefaultsPositions.longs()))) {
  \_dl();\_dl();\_ln();
  \_ln();
  \_out(" 
");
}
\_dl();\_ln();
\_out(" 
");
$(_\_, rr.builderFields(), setters);
\_ln();
\_out(" 
");
{final org.immutables.generator.Templates.Iteration \_it2 = new org.immutables.generator.Templates.Iteration();}
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(setters)) {
    __.dl();__.ln();
    __.out(" ");
    $(__, defineOrResetBuildingFieldAlt, v, $true, v.isNullCollector());
    __.ln();
    __.out(" ");
    __.dl();_it2.index++;
    _it2.first = false;
}
___.dl();__.ln();
___.out(" ");
___.dl();
if ($if(type.isGenerateOrdinalValue())) {
    __.dl();__.ln();
    __.out(" ");
    $(__, eachLine, type.syntheticFieldsInjectedAnnotations());
    __.ln();
    __.out("  private Domain domain = Domain.get();").ln();
    __.out(" ");
}
___.dl();__.ln();
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
    final java.lang.Boolean useFactoryMethod = $cast($not, type.factoryBuilder().isNew());
    __.dl();__.ln();
    __.out(" ");
    {final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
        final java.util.List<org.immutables.value.processor.meta.ValueAttribute> parameters =
        $cast(type.getBuilderParameters());
        __.dl();__.ln();
        __.ln();
        __.out(" ");
        __.dl();
        if ($if($not, useFactoryMethod)) {
            __.dl();__.ln();
            __.out("/**").ln();
            __.dl();
            if ($if(type.kind().isFactory())) {
                __.dl();__.ln();
                __.out(" * Creates a {@code ");
                $(__, type.typeBuilderImpl().simple());
                __.out("} factory builder.").ln();
            } else {
                __.dl();__.ln();
                __.out(" * Creates a builder for {@link ");
                $(__, type.typeValue().relativeRaw());
            }
        }
    }
}
__out(" ");
$(__, type.typeValue().simple());
__out("} instances.").ln();
}
__dl();__ln();
__out(" ");
$(__, javadocBuilderExample, type);
__ln();
{final org.immutables.generator.Templates.Iteration _it4 = new
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute p : $in(parameters)) {
__dl();__ln();
__out(" * @param ");
$(__, p.name());
__out(" #{@code ");
$(__, p.name());
__out("} parameter");
__dl();
if ($if(p.isNullable())) {
__dl();__out("can be #{@code null}");
}
__dl();__ln();
__dl();_it4.index++; _it4.first = false;
}
__dl();__ln();
__out(" */").ln();
__out(" ");
}
__dl();__ln();
__dl();__out(" ");
__dl();
if ($if(useFactoryMethod)) {
__dl();__out("private ");
} else {
__dl();$(__, type.typeBuilderImpl().access());
}
__dl();$(__, type.typeBuilderImpl().simple());
__out(" ");
{final org.immutables.generator.Templates.Iteration _it4 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute p : $in(parameters)) {
__dl();__dl();
if ($if($not, _it4.first)) {

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__dl();__out("","");
}
__dl();$___. p.isNullability();
$___. constructorAcceptType, p);
__out(""");
$___. p.name());
__dl();__it4.index++;__it4.first = false;
}
__dl();__out(""');ln();
__out(""');
__dl();
if ($if(type.getInnerBuilder().isExtending)) {
__dl();__ln();
__out(" if (!this instanceof ");
$___. type.typeBuilder().relativeRaw());
$___. type.generics().unknown);
__out(") {"');ln();
__out(" throw new UnsupportedOperationException("Use: ");
$___. type.factoryBuilder().relative());
__out("("");');ln();
__out(" ");');ln();
__out(" ");
}
__dl();__ln();
__out(" ");
{final org.immutables.generator.Templates.Iteration _it4 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : Sin(setters)) {
__dl();__ln();
__out(" ");
__dl();
if (Sin(v.isBuilderSwitcher())) {
__dl();__ln();
__out(" ");
    {final org.immutables.generator.Templates.Iteration _it5 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.SwitcherModel.SwitchOption o : Sin(v.builderSwitcherModel.options)) {
        if ($if(o.isDefault)) {
            __dl();__ln();
            __out(" ");
            $___. v.names.init);
            __out(""");
            $___. v.getRawType());
            __out(".");
            $___. o.constantName);
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```java
__out(";").ln();
__out("  ");
__dl();__t5.index++;  
__it5.first = false;
}
__dl();__ln();
__out("  ");
}
__dl();__ln();
__out("  ");
__dl();
if ($if(v.isBuilderParameter)) {
__dl();__ln();
__out("  ");
__dl();
if ($if(v.isCollectionType())) {
__dl();__ln();
$___.v.names.addAll();
__out("(");
$___.v.name();
__out(");").ln();
__out("  ");
} else if ($if(v.isMapType())) {
__dl();__ln();
__out("  ");
$___.v.names.putAll();
__out("(");
$___.v.name();
__out(";").ln();
__out("  ");
} else {
__dl();__ln();
__out("  ");
$___.v.names.init;
__out("(");
$___.v.name();
__out(";").ln();
__out("  ");
}
__dl();__ln();
__out("  ");
```

```
glob.glob(XX, recursive=True)

for path in glob.iglob(XX, recursive=True):
    if (os.path.isfile(path)):
        with open(path, 'r') as file:
            data = file.read()
        if (re.search('some_pattern', data)):
            # Do something with the match

for file in os.listdir(directory):
    if (file.endswith('.txt')):
        with open(os.path.join(directory, file), 'r') as file:
            data = file.read()
            if (re.search('some_pattern', data)):
                # Do something with the match

if (os.path.exists(path)):
    with open(path, 'r') as file:
        data = file.read()
    if (re.search('some_pattern', data)):
        # Do something with the match
if ($if(type.kind().isFactory())) {
    __.dl();___.ln();
    __.out("  * Creates a [code ");
    ___.out(type.typeBuilderImpl().simple());
    __.out("] factory builder.").ln();
} else {
    __.dl();___.ln();
    __.out("  * Creates a builder for [link ");
    ___.out(type.typeValue().relativeRaw());
    __.out(" ");
    ___.out(type.typeValue().simple());
    __.out("] instances.").ln();
}

{final org.immutables.generator.Templates.Iteration _it4 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute p : $in(parameters)) {
        __.dl();___.ln();
        __.out("  * @param ");
        ___.out(p.name());
        __.out("] parameter");
        __.dl();
        if ($if(p.isNullable())) {
            __.dl();___.out(" can be [code null]");
        }
    }
    __.dl();___.ln();
    __.out("  ");
    __.dl();_it4.index++;
    _it4.first = false;
}

___.out(" */*").ln();
___.dl();
$(__, type.generics().args());
__out(" ");
$(__, type.factoryBuilder().applied());
__out("(");
{final org.immutables.generator.Templates.Iteration _it4 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute p : Sin(parameters)) {
  __dl();__dl();
  if ($if($(not, _it4.first))) {
    __dl();__out(" , ");
  }
  __dl();$(__, p.atNullability());
$(__, constructorAcceptType, p);
  __out(" ");
$(__, p.name());
  __dl();_it4.index++;
  _it4.first = false;
}
  __dl();__out(" ").ln();
  __out(" return new ");
$(__, type.typeBuilderImpl().simple());
$(__, type.generics().diamond());
  __out("(");
  for (final org.immutables.value.processor.meta.ValueAttribute p : Sin(parameters)) {
    __dl();__dl();
    if ($if($(not, _it4.first))) {
      __dl();__out(" , ");
    }
    __dl();$(__, p.name());
    __dl();_it4.index++;
    _it4.first = false;
  }
  __dl();__out(" ").ln();
  __out(" ");
  __dl();
  if ($if($(parameters, andnot, type.kind().isFactory()))) {
    __dl();__ln();
    __ln();
    __out(" static");
    $(__, type.generics().def());
    __out(" ");
    $(__, type.typeBuilderImpl().simple());
    __out(" ");
  }
$(__, type.factoryBuilder().applied());
__out("() { ").ln();
__out("    return new ");
$(__, type.typeBuilderImpl().simple());
$(__, type.generics().diamond());
__out("(); ").ln();
__out("  ");ln();
__out("  ");
}
__dl();__ln();
}
__dl();__ln();
__out("  ");
}
__dl();__ln();
__out("  ");
__dl();__it3.index++;
__it3.first = false;
}
__dl();__ln();
__dl();__it2.index++;
__it2.first = false;
}
__dl();__ln();
__dl();
if ($if(type.isGenerateOrdinalValue())) {
__dl();__ln();
__ln();
__out("  /** ").ln();
__out("    * Specify a non-default @link Domain for ordinal values.").ln();
__out("    * @return @code this builder for use in a chained invocation"").ln();
__out("    */ ").ln();
__out("  ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
__dl();
if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,"com.google.errorprone.annotations.CanIgnoreReturnValue"))) {
__dl();__out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
}
__dl();
}
__ln();
__out("  public final ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
if (type.kind().isValue()) {
    __dl();__ln();
    __out(" ");ln();
    __out(" ");ln();
}
__dl();__ln();
__dl();
if (type.isGenerateBuilderFrom()) {
    __dl();__ln();
    __out(" ");
    __dl();
if (type.kind().isModifiable()) {
    __dl();__ln();
    __out(" ");
    __dl();
if (type.kind().isValueObject()) {
    __dl();__ln();
    __out(" ");
    __dl();
    __out(" ");
    __dl();
    __ln();
    __out(" /** ");ln();
    __out(" * Fill a builder with attribute values from the provided { @code ");
    __out(" */ instance.");ln();
}
@param instance The instance from which to copy values
@return {@code this} builder for use in a chained invocation
 */

```
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
  __.dl();
  if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue"))) {
    __.dl();___.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
  }
  __.dl();
  ___.ln();
  __.out(" public final ");
}

final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
___.dl();
if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
  __.dl();$(__, type_builderReturnType_1031721330.typeBuilder());
} else {
  __.dl();$(__, type_builderReturnType_1031721330.typeBuilder().simple());
  $(__, type_builderReturnType_1031721330.generics().args());
}
  __.dl();
  __.out(" ");
  $(__, type.names().from);
  __.out(" ");
  $(__, type.typeModifiable());
  __.out(" instance \{\}").ln();
  __.out(" ");
  $(__, requireNonNull, type);
  __.out("(instance, \"{}\")").ln();
  __.out(" ");
  if (final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute v : $in(setters)) {
      __.dl();___.ln();
      ___.out(" ");
      $(__, buildFromMandatoryAttribute, buildFromAttribute, v);
      ___.ln();
      ___.out(" ");
      __.dl();_it2.index++;
      _it2.first = false;
    }
  })
```
```java
    @com.google.errorprone.annotations.CanIgnoreReturnValue
    public
```
public final 

final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);

if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
    $(__, type_builderReturnType_1031721330.typeBuilder());
} else {
    $(__, type_builderReturnType_1031721330.typeBuilder().simple());
    $(___. type_builderReturnType_1031721330.generics().args());

    $(__. requireNonNull, type);
    from((Object) instance); return 

    this;

} $

/**
 * Copy abstract value type {code }
 * instance into builder.
 * @param instance The instance from which to copy values
 */

```java
__out(" * @return {@code this} builder for use in a chained invocation").ln();
__out(" */").ln();
__out(" ");

[final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 =
$cast(type);
__dl();
if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
"com.google.errorprone.annotations.CanIgnoreReturnValue")) {
  __dl();__out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
}
__dl();
}
__ln();
__out(" public final ");

[final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 =
$cast(type);
__dl();
if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
  __dl();$___.type_builderReturnType_1031721330.typeBuilder();
} else {
  __dl();$(___.type_builderReturnType_1031721330.typeBuilder().simple());
$(___.type_builderReturnType_1031721330.generics().args());
}
__dl();
__out(" ");
$(___.type.names().from);
__out(" ");
$(___.type.typeAbstract().relative());
__out(" instance ") {".ln();
__out(" ");
$(___.requireNonNull, type);
__out("(instance, \"instance\")").ln();
__out(" from((Object) instance)\").ln();
__out(" return ");

[final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
__dl();
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
  __dl();__out("(");
$(___.type_builderReturnThis_1267082624.typeBuilder());
__out(" ");
}
__dl();__out("this");
```
__out(";"),ln();
__out("  }"),ln();
__out("  ");
}

} else {
__dl();__ln();
__ln();
__out("  /**"),ln();
__out("   * Fill a builder with attribute values from the provided { @code ");
$___. s.raw();
__out("  } instance."),ln();
__out("   * @param instance The instance from which to copy values"),ln();
__out("   * @return { @code this } builder for use in a chained invocation"),ln();
__out("   */"),ln();
__out("   ");

final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
__dl();
if (!$iff(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
"com.google.errorprone.annotations.CanIgnoreReturnValue")) {
__dl();__out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
}
__dl();
}
__ln();
__out("  public final");

final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
__dl();
if (!$iff(type_builderReturnType_1031721330, getInnerBuilder().isExtending)) {
__dl();$___. type_builderReturnType_1031721330.typeBuilder();
}

} else {
__dl();$___. type_builderReturnType_1031721330.typeBuilder().simple();
$___. type_builderReturnType_1031721330.generics().args();
}
__dl();
__out("  ");
$___. type.names().from();
__out("()");
$___. s.type();
__out(" instance) { ").ln();
__out("  ");
$___. requireNonNull, type);
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) { 
    __dl();__out("(");
    $___.type_builderReturnThis_1267082624.typeBuilder();
    __out(" )");
}
__dl();__out("this");

__out(":").ln();
__out(" }").ln();
__out(" ");

__dl();__ln();
__out(" ");
__dl();__it2.index++;__it2.first = false;
}
__dl();__ln();
__ln();

{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
__dl();
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) { 
    __dl();__out("(");
    $___.type_builderReturnThis_1267082624.typeBuilder();
    __out(" )");
}
__dl();__out("this");

__out(":").ln();
__out(" }").ln();
__out(" ");

__dl();__ln();
__out(" ");
__dl();__it2.index++;__it2.first = false;
}
__dl();__ln();
__ln();

{final org.immutables.generator.Templates.Iteration _it2 = new 
org.immutables.generator.Templates.Iteration();
final org.immutables.value.processor.meta.FromSupertypesModel bs = $cast(type.getBuildFromTypes());
__dl();__ln();
__dl();
if ($if($(bs.hasWildcards(), andnot, type.suppressesUncheckedWarning()))) {
    __dl();__ln();
    __out(" @SuppressWarnings("unchecked")").ln();
}
__dl();__ln();
__out(" private void from(Object object) {").ln();
__out(" ");
$(___.dynamicFromModifiableCheck, type, "object", "return;");__ln();
__out(" ");
{final org.immutables.generator.Templates.Iteration _it3 = new 
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.LongBits.LongSet l : $in(bs.positions.longs())) { 
    __dl();__ln();
    __out(" ");
    [final org.immutables.value.processor.meta.HasStyleInfo s_atVar_1287436599 = $cast(type);
if ($if($(s_atVar_1287436599, allowsClasspathAnnotation, "com.google.errorprone.annotations.Var"))) {

    __.dl();

    __.out("@com.google.errorprone.annotations.Var ");

    }

    __.dl();

    __.out("long bits");

    $(_. emptyIfZero, l.index);

    __.out(" = 0;").ln();

    __.out(" ");

    __.dl();

    _it3.index++; _it3.first = false;
}

    __.dl();

    __.ln();

    __.out(" ");

    } final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();

    for (final org.immutables.value.processor.meta.FromSupertypesModel.FromSupertype s : $in(bs.supertypes)) {

    if ($if(s.attributes)) {

        __.dl();

        __.ln();

        __.out(" if (object instanceof ");

        $___. s.wildcard);

        __.out(" ").ln();

        __.out(" ");

        $___. s.type);

        __.out(" instance = ");

        $___. s.type);

        __.out(" object;");ln();

        __.out(" ");

        } final org.immutables.generator.Templates.Iteration _it4 = new org.immutables.generator.Templates.Iteration();

        for (final org.immutables.value.processor.meta.ValueAttribute v : $in(s.attributes)) {

            final org.immutables.value.processor.meta.LongBits.BitPosition pos = $cast($(bs.positions, v.name()));

            __.dl();

            __.ln();

            __.out(" ");

            __.dl();

            if ($if(pos)) {

                __.dl();

                __.ln();

                __.out(" if ((bits");

                $(_. emptyIfZero, pos.index);

                __.out(" & ");

                $(_. literal.hex, pos.mask);

                __.out(" == 0") ?.ln();

                __.out(" ");

                __.dl();

                if ($if(v.isNullableInSupertype())) {


/**
 * Fill a builder with attribute values from the provided [@code "instance"]
 * instance.
 * Regular attribute values will be replaced with those from the given instance.
 * Absent optional values will not replace present values.
 * Collection elements and entries will be added, not replaced.
 * @param instance The instance from which to copy values
 * @return [@code this] builder for use in a chained invocation
 */

if (Sif$(type.hasSettableCollection(), or, type.hasSettableMapping())) {
    __dl();__ln();
    __out(" * Collection elements and entries will be added, not replaced.").ln();
    __out(" ");
}

if (Sif$(type.constitution.isImplementationPrimary())) {
    __dl();__ln();
    __cast(type_builderReturnType_1031721330 = $cast(type);
    __dl();
    if (Sif$(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
        __dl();$(__, type_builderReturnType_1031721330.getTypeBuilder());
    } else {
        __dl();$__type_builderReturnType_1031721330.typeBuilder();
    }
}

__out(" ");
$(__.type.typeAbstract().relative());
__out(" instance) {").ln();
__out(" ");
$___.requireNonNull, type);
__out("(instance, "instance");"').ln();
__out(" ");
$___.dynamicFromModifiableCheck, type, "instance", ");
__ln();
__out(" ");
{final org.immutables.generator.Templates.Iteration _it2 = new
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : Sin(setters)) {
__dl();__.ln();
__out(" ");
$___.buildFromAttribute, v);
__ln();
__out(" ");
__dl();_it2.index++;
_it2.first = false;
}
__dl();__.ln();
__out(" return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
__dl();
if (Sif(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
__dl();__out("(");
$___.type_builderReturnThis_1267082624.typeBuilder());
__out(" ");

}
__dl();__out("this");

__out(";").ln();
__out(" ").ln();
__out(" ");
} else {
__dl();__.ln();
__out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 =
$cast(type);
__dl();
if (Sif($s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
"com.google.errorprone.annotations.CanIgnoreReturnValue")) {
__dl();__out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
}
}
final org.immutables.generator.Templates.Invokable checkNotIsSet = new
org.immutables.generator.Templates.Fragment(1) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        final org.immutables.generator.Templates.Invokable checkNotIsSet = this;
        final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
        __.ln();
        __.dl();
        if ($if(v.containingType.isUseStrictBuilder())) {
            __.dl();
            $(__, v.names.isSet());
            __.out("(): ");
            $(__, v.names.raw);
            __.out("()); ").ln();
            __.dl();
        }
        __.dl();
    }
};
final org.immutables.generator.Templates.Invokable nondefaultSetInBuilder = new
org.immutables.generator.Templates.Fragment(1) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        final org.immutables.generator.Templates.Invokable nondefaultSetInBuilder = this;
        final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
        __.ln();
        __.dl();
    }
};
}__dilate();__dilate();__out(" ");__$_. o.switcherName);__out("() {").ln();__out(" return ");__$_. v.names.init);__out("();");__$_. v.getRawType());__out(";");__$_. o.constantName);__out(";");.ln();__out(" }").ln();__out(" ");__dilate();.it3.index++;.it3.first = false; }
__dilate();__ln();__out(" ");

}__dilate();__ln();__out(" ");__dilate();if ($if(v.isEncoding())) {
__dilate();__ln();__out(" ");__$_. rr.builderInit(), v);__ln();__out(" ");
} else if ($if(v.isCollectionType())) {
__dilate();__ln();__out(" ");__dilate();if ($if($(not, v.isBuilderParameter))) {
__dilate();__ln();__out(" /*");__ln();__out(" * Adds one element to ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
__$_. sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out(" ");__$_. toLower, v.getRawCollectionType());__out(".");.ln();__out(" * @param element A ");
$(__, v.name());
  __.out("element").ln();
  __.out("/* * return { @code this } builder for use in a chained invocation").ln();
  __.out("*/").ln();
  __.out(" ");
  {final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
    __.dl();
    if ($if(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue")) {
      __.dl();___.out("@com.google.errorprone.annotations.CanIgnoreReturnValue");
    }
    __.dl();
  }___.ln();
  ____.out(" ");
  $(__, eachLine, v.initializerInjectedAnnotations());
  ___.ln();
  ____.out(" ");
  {final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
    __.dl();
    if ($if(a_deprecation_286924011, deprecated)) {
      __.dl();___.out("@Deprecated");
    }
    __.dl();
  }___.ln();
  ____.out(" ");
  {final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
    __.dl();
    if ($if(a_builderInitAccess_991723715, isBuilderParameter, or, a_builderInitAccess_991723715, isBuilderSwitcher())) {
      __.dl();___.dl();
      if ($if(a_builderInitAccess_991723715, containingType.kind().isFactory())) {
        __.dl();___.out("private");
      }
      __.dl();
    } else {
      __.dl();$(__, a_builderInitAccess_991723715, getInitializerAccess());
    }
    __.dl();
  }___.out("final");
  {final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
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if (Sif(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
  __dl();$
  if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
    __dl();$
      type_builderReturnType_1031721330.typeBuilder();
  } else {
    __dl();$
      type_builderReturnType_1031721330.typeBuilder().simple();
      type_builderReturnType_1031721330.typeBuilder().simple();
    } else {
      type_builderReturnType_1031721330.typeBuilder().simple();
      generics().args();
    }
  }
  __dl();$
  out(" ");
  type_builderReturnType_1031721330.typeBuilder();
  __out(" ");
  [final org.immutables.value.processor.meta.ValueAttribute a_atElementNullable_1621680092 = $cast(v);
    __dl();
    if ($if($(not, a_atElementNullable_1621680092.nullElements.ban()))) {
      __dl();$
        atNullable, a_atElementNullable_1621680092;
    }
    __dl();$
    v.getUnwrappedElementType();
    __out(" element) { ").ln();
    __out(" ");
    __dl();$
    if ($if(v.isNullableCollector())) {
      __dl();$
        this.
        __out(" if (this.");
        __out(" ");
        __dl();$
        __out(" == null) { ").ln();
        __out(" ");
        __dl();$
        __out(" ");
        __dl();$
    }
    __dl();$
    __out(" ");
    __dl();$
    if ($if(v.isGenerateJdkOnly(), andnot, v.isPrimitiveElement())) {
      __dl();$
        __out(" ");
        __dl();$
    }
    __dl();$
    __out(" ");
    __dl();$
    if ($if(v.hasAttributeValue())) {
      __dl();$
        __out(" ");
        __dl();$
    }
if ($if($not, v.nullElements.ban())) {
  __.dl();___.out("if (element != null) ");
}
___.dl();___.out("element = ");

final org.immutables.value.processor.meta.ValueAttribute v_deepCopyOf_1878776147 = $cast(v);
final org.immutables.generator.Templates.Invokable expression_deepCopyOf_1878776147 = new
org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invocation __) {
    __.dl();final org.immutables.generator.Templates.Invokable expression_deepCopyOf_1878776147 = this;
    __.out("element");
    __.dl();
  }
};___.dl();___.dl();
if ($if(v_deepCopyOf_1878776147.isAttributeBuilder())) {
  __.dl();$___.convertToValueType, v_deepCopyOf_1878776147.getAttributeBuilderDescriptor());
  __.out("(");
  $___.expression_deepCopyOf_1878776147);
  __.out(")");
} else {
  __.dl();$___.attributeValueType.factoryCopyOf());
  __.out("(");
  $___.expression_deepCopyOf_1878776147);
  __.out(")");
}
___.dl();
}___.dl();___.out(";").ln();
___.out("  ");

___.dl();___.ln();
___.out("  ");
___.dl();
if ($if(v.nullElements.skip())) {
  __.dl();___.ln();
  __.out("  if (element != null) this.");
  $___.v.name());
  __.out("add(");
  [final org.immutables.value.processor.meta.ValueAttribute v_maybeToBuilder_53814988 = $cast(v);
  final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = new
org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invocation __) {
    __.dl();final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = 
    this;
    __.out("element");
    
if ($if(v_maybeToBuilder_53814988.isAttributeBuilder())) {
  __.dl();$(__, valueToBuilder, v_maybeToBuilder_53814988.getAttributeBuilderDescriptor(), new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __.dl();$(__, expression_maybeToBuilder_53814988);
      __.dl();
    }
  });
} else {
  __.dl();$(__, expression_maybeToBuilder_53814988);
}

}.__.dl();
} __.out(";").ln();
___.out(" ");ln();
} else if ($if(v.nullElements.allow())) {
  __.dl();$___.ln();
  ___.out(" this.");
  $___.v.name();
  ___.out(" add(");
  final org.immutables.value.processor.meta.ValueAttribute v_maybeToBuilder_53814988 = $cast(v);
  final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __.dl();final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = this;
      ___.out("element");
      __.dl();
    }
  });___.dl();
} else if ($if(v_maybeToBuilder_53814988.isAttributeBuilder())) {
  __.dl();$(__, valueToBuilder, v_maybeToBuilder_53814988.getAttributeBuilderDescriptor(), new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __.dl();$(__, expression_maybeToBuilder_53814988);
      __.dl();
    }
  });
} else {
  __.dl();$(__, expression_maybeToBuilder_53814988);
}

}.__.dl();
} __.out(";").ln();
___.out(" ");ln();
else {
__dl();__ln();
__out("  this.");
$___.v.name();
__out(" .add(");
} final org.immutables.value.processor.meta.ValueAttribute v_maybeToBuilder_53814988 = $cast(v);
final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = new
org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
__dl();final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = this;
$___.requireNonNull, type);
__out("(element, "");
$___.v.name();
__out("  element")");
__dl();
});__dl();__dl();
if ($if(v_maybeToBuilder_53814988.isAttributeBuilder())) {
__dl();$(___.valueToBuilder, v_maybeToBuilder_53814988.getAttributeBuilderDescriptor(), new
org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
__dl();$(___.expression_maybeToBuilder_53814988);
__dl();
});
} else {
__dl();$___.expression_maybeToBuilder_53814988);
}
__dl();
__out(";");ln();
__out(" ");
}
__dl();__ln();
__out("  ");
}
else {
__dl();__ln();
__out(" ");
__dl();
if ($if(v.hasAttributeValue())) {
__dl();__ln();
__out(" element = ");
} final org.immutables.value.processor.meta.ValueAttribute v_deepCopyOf_1878776147 = $cast(v);
final org.immutables.generator.Templates.Invokable expression_deepCopyOf_1878776147 = new

org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __.dl();final org.immutables.generator.Templates.Invokable expression_deepCopyOf_1878776147 = this;
        __.out("element");
        __.dl();
    })::__.dl();
    if ($if(v_deepCopyOf_1878776147.isAttributeBuilder())) {
        __.dl();$___.convertToValueType, v_deepCopyOf_1878776147.getAttributeBuilderDescriptor();
        __.out("(");
        $___.expression_deepCopyOf_1878776147;
        __.out(")");
    } else {
        __.dl();$___.v_deepCopyOf_1878776147.getAttributeValueType.factoryCopyOf();
        __.out("(");
        $___.expression_deepCopyOf_1878776147;
        __.out(")");
    }
    __.dl();
    __.out(";").ln();
    __.out("    ");

    __.dl();___.ln();
    __.out("  this.");
    $___.v.name();
    __.out(".add");
} final org.immutables.value.processor.meta.ValueAttribute v_maybeToBuilder_53814988 = $cast(v);
final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __.dl();final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = this;
        __.out("element");
        __.dl();
    })::__.dl();
    if ($if(v_maybeToBuilder_53814988.isAttributeBuilder())) {
        __.dl();$___.valueToBuilder, v_maybeToBuilder_53814988.getAttributeBuilderDescriptor(), new org.immutables.generator.Templates.Fragment(0) {
            @Override public void run(org.immutables.generator.Templates.Invokation __) {
                __.dl();$___.expression_maybeToBuilder_53814988);
                __.dl();
            })};
        } else {
            __.dl();$___.expression_maybeToBuilder_53814988);
            __.dl();
        }
    }
}
__dl();
__out(";").ln();
__out("  ");

__dl();__ln();
__out("  ");
$___.nondefaultSetInBuilder, v);
__ln();
__out("  return ");

{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
__dl();
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
  __dl();__out("(");
  $(___.type_builderReturnThis_1267082624.typeBuilder());
  __out(" )");
}
__dl();__out("this");

__out(";").ln();
__out("  ");__ln();
__out("  ");__dl();
if ($if(v.getConstructorParameters())) {
  __dl();__ln();
  __ln();
  __out(" /*");__ln();
  __out(" * Constructs and adds an element for the ");

  {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
    ___.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out("  ");
$___.toLower, v.getRawCollectionType());
__out(";").ln();
__out("  ");
{final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
  for (final org.immutables.value.processor.meta.ValueAttribute c : $in(v.getConstructorParameters())) {
    __dl();__ln();
    __out("  * @param ");
    $(___.c.name());
    __out("  The value for { @code ");
  }
}

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$(__, v.name());
__out(".");
$(__, c.name());
__out(" } ");
__dl();
if (Sif(c.isNullable())) {
  __dl();__out("(can be { @code null})");
}
__dl();__ln();
__out(" ");
__dl();_it3.index++; _it3.first = false;
}
__dl();__ln();
__out(" */");
$__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if (Sif(a_deprecation_286924011.deprecated)) {
  __dl();__out("@Deprecated");
}
__dl();
}
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
__dl();
if (Sif($a_builderInitAccess_991723715.isBuilderParameter, or,
a_builderInitAccess_991723715.isBuilderSwitcher()))) {
  __dl();__dl();
  if (Sif($a_builderInitAccess_991723715.containingType.kind().isFactory())) {
    __dl();__out("private ");
  }
  __dl();
} else {
  __dl();$__ a_builderInitAccess_991723715.getIntializerAccess();
}
__dl();
}
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
__dl();
if (Sif(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
__dl();$(__, type_builderReturnType_1031721330.typeBuilder());
}
else {
__dl();$(__, type_builderReturnType_1031721330.typeBuilder().simple());
$(__, type_builderReturnType_1031721330.generics().args());
}
__dl();
__out(" ");
$(__, v.names.add());
__out("(");
{final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute c : $in(v.getConstructorParameters())) {
__dl();__dl();
if (Sif($not __.first)) {
__dl();__out("", "");
}
__dl();$__.c.atNullability();
$___.c.getType();
__out(" ");
$(___, c.name());
__dl();_it3.index++; _it3.first = false;
}
__dl();__out(" ");
__out(" return ");
$(___, v.names.add());
__out("()");
$(___, v.attributeValueType.factoryOf());
__out("()");
{final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute c : $in(v.getConstructorParameters())) {
__dl();__dl();
if (Sif($not __.first)) {
__dl();__out("", "");
}
__dl();$__.c.name();
__dl();_it3.index++; _it3.first = false;
}
if (a_varargsSafety_1368213209.isNonRawElementType(), or, a_varargsSafety_1368213209.hasTypeVariables)) {
    __dl();__out("@SafeVarargs @SuppressWarnings("varargs")");
}

if (a_builderInitAccess_991723715.isBuilderParameter, or, a_builderInitAccess_991723715.isBuilderSwitcher())) {
    __dl();
    if (a_builderInitAccess_991723715.containingType.kind().isFactory()) {
        __dl();__out("private ");
    }
}

else {
    __dl();$__ a_builderInitAccess_991723715.getInitializerAccess();
}

__dl();
__out("final ");

if (type_builderReturnType_1031721330.typeBuilder().isExtending) {
    __dl();$__ type_builderReturnType_1031721330.typeBuilder();
}

else {
    __dl();$__ type_builderReturnType_1031721330.typeBuilder().simple();
    $__ type_builderReturnType_1031721330.generics().args();
}

__dl();
__out(" ");
$__ v.names.addv();
__out(" ");
$__ v.getUnwrappedElementType();
__out("... elements) {".ln();
__out(" ");
__dl();
if (v.isNullableCollector()) {
    __dl();__ln();
if (this.$if($(v.name() == null) {
  
  $___.defineOrResetBuildingFieldAlt, v, false, false);
  
  ___.out(" ");
  
  ___.out(" ");

  }___.dl();
  
  ___.out(" ");
  
  ___.dl();

  if ($if(v.isGenerateJdkOnly(), or, v.hasAttributeValue())) {
    
    ___.out(" for (")
    
    ___.out(" element : elements ");
    
    ___.out(" ");
    
    ___.dl();

    if ($if(v.hasAttributeValue())) {
      
      ___.out(" if (element != null) ");
      
      ___.dl();

      ___.out("element = ");
    }
    
    ___.dl();

    final org.immutables.value.processor.meta.ValueAttribute v_deepCopyOf_1878776147 = $cast(v);

    final org.immutables.generator.Templates.Invokable expression_deepCopyOf_1878776147 = new org.immutables.generator.Templates.Invokable ex...
org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __dl();final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 =
        this;
        __out("element");
        __dl();
    }
}

if ($if(v_maybeToBuilder_53814988.isAttributeBuilder())) {
    __dl();$___.dl();
    if ($if(v_maybeToBuilder_53814988.isAttributeBuilder())) {
        __dl();$___.dl();
    }
} else {
    __dl();$___.dl();
    __out(";").ln();
    __out(" ");

} else {
    __dl();$___.ln();
    __out(" this.");
    $___.v.name();
    __out(" .add(");
    final org.immutables.value.processor.meta.ValueAttribute v_maybeToBuilder_53814988 = $cast(v);
    final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = new
    org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __dl();final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 =
            this;
            $(___.requireNonNull, type);
            __out("(element, ")
            $(___.v.name());
            __out(" element")
            __dl();
        }
    });
    if ($if(v_maybeToBuilder_53814988.isAttributeBuilder())) {
        __dl();$___.dl();
    }
} else {
    __dl();$___.dl();
    $(___.valueToBuilder, v_maybeToBuilder_53814988.getATTRIBUTEBuilderDescriptor(), new
    org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __dl();$(___.expression_maybeToBuilder_53814988);
            __dl();
        }
    });
}
if ($if(v.wrapArrayToIterable())) {
  __.dl();___.ln();
  ___.out("    this.");
  ___.dl();
  if ($if(v.isAttributeBuilder())) {
    ___.out("      this.");
    $(_. v.name());
    ___.out("        .addAll(");
    ___.dl();
    if ($if(v.wrapArrayToIterable())) {
      ___.dl();___.ln();
      ___.out("            this.");
      $(_. v.name());
      ___.out("                .addAll(");
      ___.dl();
      n_convertToBuilderType_187063380 = $cast(v.getAttributeBuilderDescriptor());
      ___.out("      convertToBuilderType");
      $(_. n_convertToBuilderType_187063380.getQualifiedNameWithUnderscores());
    }
    ___.out("      (elements)");
  } else {
    ___.dl();___.ln();
    ___.out("        ");
    ___.dl();
    if ($if(v.isAttributeBuilder())) {
      ___.dl();___.ln();
      ___.out("            this.");
      $(_. v.name());
      ___.out("                  .addAll(");
      ___.dl();
      if ($if(v.isAttributeBuilder())) {

n_convertToBuilderType_187063380 = $cast(v.getAttributeDescriptor());
$___.out("convertToBuilderType");
$(___.n_convertToBuilderType_187063380.getQualifiedNameWithUnderscores());
}
$___.out("(elements))");
}
else {
___.dl();___.out("add(elements)");
}
___.dl();___.out(";").ln();
___.out("  ");
$___.nondefaultSetInBuilder, v);
___.ln();
___.out("    return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
___.dl();
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
___.dl();___.out("(");
$(___.type_builderReturnThis_1267082624.typeBuilder());
___.out(") ");
}
___.dl();___.out("this");
}
___.out(";").ln();
___.out("  }").ln();
___.ln();
___.out("  ");
___.dl();
if ($if(v.getAttributeBuilder())) {
___.dl();___.ln();
___.out("/***").ln();
___.out("  * Adds a new builder to the.");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$(___.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
$(__, toLower, v.getRawCollectionType());
__out(" and returns").ln();
__out(" * the builder.").ln();
__out(" */").ln();
__out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 =
$\text{cast}(\text{type});
__dl();
if ($\text{if}((s\_atCanIgnoreReturnValue\_1431153190, allowsClasspathAnnotation,
"com.google.errorprone.annotations.CanIgnoreReturnValue")) {
__dl();__out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
}
__dl();
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 =
$\text{cast}(v);
__dl();
if ($\text{if}(a\_deprecation\_286924011.deprecated)) {
__dl();__out("@Deprecated");
}
__dl();
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_varargsSafety_1368213209 =
$\text{cast}(v);
__dl();
if ($\text{if}((a\_varargsSafety\_1368213209.isNonRawElementType(), or,
a\_varargsSafety\_1368213209.hasTypeVariables))){
__dl();__out("@SafeVarargs @SuppressWarnings("varargs")");
}
__dl();
__ln();
__out(" public final");
{final org.immutables.value.processor.meta.AttributeBuilderDescriptor
n_attributeBuilderBuilderType_1431666641 =
$\text{cast}(v.getAttributeBuilderDescriptor());
S(__, n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());
}
__out(" ");
S(__, v.names.addBuilder());
if ($if(v.isNullableCollector())) {
  {final org.immutables.value.processor.meta.AttributeBuilderDescriptor
    n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());
    $(__, n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());
    __out(" builder = ");
    {final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_createAttributeBuilder_175285279
      = $cast(v.getAttributeBuilderDescriptor());
      $(__, n_createAttributeBuilder_175285279.getQualifiedBuilderConstructorMethod());
      __out("()");
    }
    __out(" ;");
    __out(" this.");
    $(__, v.name());
    __out(".add(builder);").ln();
    __out(" return builder;").ln();
    __out(" ").ln();
    __ln();
    __out(" /**").ln();
    __out(" * Adds elements to ");
    {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
      $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
    }
    __out(" ");
    $(__, toLower, v.getRawCollectionType());
    __out(".").ln();
    __out(" * @param elements An array of ");
    $(__, v.name());
    __out(" builder elements").ln();}
```java
__out("  *
* @return @code this} builder for use in a chained invocation@code ").ln();
__out(" */").ln();
__out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 =
$cast(type);
__dl();
if (Sif$(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
"com.google.errorprone.annotations.CanIgnoreReturnValue")) {
  __dl();__out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
}
__dl();

__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 =
$cast(v);
__dl();
if (Sif$(a_deprecation_286924011.deprecated)) {
  __dl();__out("@Deprecated");
}
__dl();

__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_varargsSafety_1368213209 =
$cast(v);
__dl();
if (Sif$(a_varargsSafety_1368213209.isNonRawElementType(), or,
a_varargsSafety_1368213209.hasTypeVariables)) {
  __dl();__out("@SafeVarargs @SuppressWarnings("varargs")");
}
__dl();

__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 =
$cast(v);
__dl();
if (Sif$(a_builderInitAccess_991723715.isBuilderParameter, or,
a_builderInitAccess_991723715.isBuilderSwitcher())) {
  __dl();__dl();
  if (Sif$(a_builderInitAccess_991723715.containingType.kind().isFactory()) {
    __dl();__out("private ");
  }
  __dl();
} else {
  __dl();$(__, a_builderInitAccess_991723715.getInitializerAccess());
}
```
__dl();
__out("final ");
final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
__dl();
if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
  __dl();$___. type_builderReturnType_1031721330.typeBuilder();
} else {
  __dl();$___. type_builderReturnType_1031721330.typeBuilder().simple();
$___. type_builderReturnType_1031721330.generics().args();
}
__dl();
__out(" ");
$___. v.names.addAllBuilder();
__out(" ");
{final org.immutables.value.processor.meta.AttributeBuilderDescriptor
n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());
$___. n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());
__out("...
... elements) ").ln();
__out(" ");
__dl();
if ($if(v.isNullableCollector())) {
__dl();__ln();
__out(" if (this.");
$___. v.name());
__out(" == null ) ").ln();
__out(" ");
$___. defineOrResetBuildingFieldAlt, v, $$false, $$false);__ln();
__out(" ");
__out(" ");
}
__dl();__ln();
__out(" ");
__dl();
if ($if($v.isGenerateJdkOnly(), or, v.hasAttributeValue())) {
__dl();__ln();
__out(" for (");
[final org.immutables.value.processor.meta.AttributeBuilderDescriptor
n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());

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if ($if($v.isPrimitiveElement(), or, v.nullElements.allow())) {
    __.dl();
    __.out(" this.");
    __.out(" .add(element);").ln();
    __.out(" ");
} else if ($if(v.nullElements.skip())) {
    __.dl();
    __.out(" if (element != null) this.");
    __.out(" .add(element);").ln();
    __.out(" ");
} else {
    __.dl();
    __.out(" this.");
    __.out(" .add(");
    __.out(" requireNonNull, type);
    __.out(" (element, \"\"");
    __.out(" element\"));").ln();
    __.out(" ");
}

___.dl();
___.out(" ");
___.ln();
___.out(" }\"").ln();
___.out(" ");

} else {
    ___.dl();
    ___.out(" ");
    ___.dl();
    if ($if(v.wrapArrayToIterable())) {
        ___.dl();
        __.out(" this.");
        ___.out(" .addAll(");
        ___.out(" requireNonNull, type);
        ___.out(" (\" elements\")
        __.out(" ");
    }

}
```java
} else {
    __.dl(); __.ln();
    __.out("    this.");
    __.out("    .add(elements);").ln();
    __.out("    ");

    __.dl(); __.ln();
    __.out("    ");
    __.out("    __, nondefaultSetInBuilder, v);
    __.ln();
    __.out("    return ");
}

{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
 __.dl();
 if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
    __.dl(); __.out("(");
    __.out(") ");
    __.out("    ");
    __.out("    __, type_builderReturnThis_1267082624.typeBuilder();
    __.out("    ");
    __.dl(); __.out("this");

    __.out(";").ln();
    __.out(" }").ln();
    __.ln();
    __.out(" /*").ln();
    __.out("    * Gets the builder elements to ");
}

{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
 __.dl();
 __.out("    ");
 __.out("    @sourceDocRef_1518656892, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);

 __.out(" ");
 __.out("    ");
 __.out("    toLower, v.getRawCollectionType();
 __.out("    ");
 __.out("    * @return [ @code this ] unmodifiable list of modifiable builders.");
 __.out("    */");
 __.out("    ");
}

{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
 __.dl();
 if ($if(a_deprecation_286924011.deprecated)) {
    __.dl(); __.out("@Deprecated");
}
```
final org.immutables.value.processor.meta.ValueAttribute a_varargsSafety_1368213209 = $cast(v);
__dl();
if ($if($a_varargsSafety_1368213209.isNonRawElementType(), or,
a_varargsSafety_1368213209.hasTypeVariables)) {
  __dl(); __out("@SafeVarargs @SuppressWarnings("varargs")");
}
__dl();
__ln();
__out("public final java.util.List<
{final org.immutables.value.processor.meta.AttributeBuilderDescriptor
n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());
$(__, n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());
}
__out(">");
$(__, v.names.getBuilders());
__out("() ") __ln();
__out(" ");
__dl();
if ($if(v.isGenerateJdkOnly())) {
  __dl(); __ln();
  __out("    return createUnmodifiableList(false, this.");
$(__, v.name());
  __out(";"). __ln();
  __out(" ");
} else {
  __dl(); __ln();
  __out("    return this.");
$(__, v.name());
  __out(".uild();"). __ln();
  __out(" ");
}
__dl(); __ln();
__out(" } "). __ln();
__out(" ");
__dl(); __ln();
__out(" ");
__dl();
if (Sif($not(type.isUseStrictBuilder()))) {
    __dl();__ln();
    __ln();
    __out("  /**").ln();
    __out("   * Sets or replaces all elements for ");
    {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
        $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
    }
    __out("  ");
    $(__, toLower, v.getRawCollectionType());
    __out("  ").ln();
    __out("   * @param elements An iterable of ");
    $(__, v.name());
    __out("  elements").ln();
    __out("   * @return the builder for use in a chained invocation").ln();
    __out("   */").ln();
    __out("   ");
    $(__, eachLine, v.initializerInjectedAnnotations());
    __ln();
    __out("   ");
    {final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
        __dl();
        if (Sif($s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue")) {
            __dl();__out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
        }
        __dl();
    }
    __dl();
}
if ($if($(a_builderInitAccess_991723715.isBuilderParameter, or, a_builderInitAccess_991723715.isBuilderSwitcher()))) {
    __.dl();___.dl();
    if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
        __.dl();___.out("private ");
    }
    __.dl();
} else {
    __.dl();$___.a_builderInitAccess_991723715.getInitializerAccess();
}
___.dl();
___.out("final ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
    __.dl();
    if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
        __.dl();$___.type_builderReturnType_1031721330.typeBuilder();
    } else {
        __.dl();$___.type_builderReturnType_1031721330.typeBuilder().simple();
        $___.type_builderReturnType_1031721330.generics().args();
    }
    ___.dl();
}___.out(" ");
$___.v.names.init;
___.out("(");
$___.v.atNullability();
___.out("Iterable<");
$___.v.getConsumedElementType();
___.out(">");
___.out("elements ");
___.ln();
___.out(" ");
___.dl();
if ($if(v.isNullable()) ) {
    __.dl();___.ln();
    ___.out("if (elements == null ) ");
    __.out(" ");
    $___.defineOrResetBuildingFieldAlt, v, $$false, $$true);
    ___.ln();
    __.out(" ");
    $___.nondefaultSetInBuilder, v);
    ___.ln();
    __.out(" return ");
}
Open Source Used In kASA v1 7985

```java
\.dl();
if ($!{type_builderReturnThis_1267082624.getInnerBuilder().isExtending}) {
  _.dl();_.out("(");
$.!{type_builderReturnThis_1267082624.typeBuilder());
_.out("")
}
_.dl();_.out("this");
}
_.out(";").ln();
_.out("  ");_.ln();
_.out(" ");
}
_.dl();_.ln();
_.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute v_defineOrResetBuildingField_1809684382 = $
cast(v);
final java.lang.Boolean declare_defineOrResetBuildingField_1809684382 = $cast($false);
S!{defineOrResetBuildingFieldAlt, v_defineOrResetBuildingField_1809684382, declare_defineOrResetBuildingField_1809684382, $false);
}
_.ln();
_.out("  ");
_.out(" return ");
$.!{v.names.addAll()};
_.out("(elements)");_.ln();
_.out("  ");_.ln();
_.out(" ");
}
_.dl();_.ln();
_.out(" ");
}
_.dl();_.ln();
_.ln();
_.out(" ");
_.out("/**").ln();
_.out(" * Adds elements to ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $
cast(v);
$!{sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw};
}
_.out(" ");
$.toLower, v.getRawCollectionType());
_.out(" ");_.ln();
_.out(" * @param elements An iterable of ");
```
$(__, v.name());
__out("  elements").ln();
__out("   * @return {@code this} builder for use in a chained invocation").ln();
__out("   */").ln();
__out("  ");
$(__, eachLine, v.initializerInjectedAnnotations);
__ln();
__out("  ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 =
$cast(type);
__dl();
if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
"com.google.errorprone.annotations.CanIgnoreReturnValue")) {
  __dl();__out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
}
__dl();
}
__ln();
__out("  ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {
  __dl();__out("@Deprecated");
}
__dl();
}
__ln();
__out("  ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
__dl();
if ($if($(a_builderInitAccess_991723715.isBuilderParameter, or,
a_builderInitAccess_991723715.isBuilderSwitcher()))) {
  __dl();__dl();
  if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
    __dl();__out("private ");
  }
  __dl();
} else {
  __dl();$(__, a_builderInitAccess_991723715.getInitializerAccess());
}
__dl();
}
__out("final ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
Open Source Used In kASA v1 7988

```java
__dI();
if ($if($not, v.nullElements.ban())) {
  __dI(); __out("if (element != null )");
}

__dI();__out("element = ");
{final org.immutables.value.processor.meta.ValueAttribute v_deepCopyOf_1878776147 = $cast(v);
  final org.immutables.generator.Templates.Invokable expression_deepCopyOf_1878776147 = new
  org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dI();final org.immutables.generator.Templates.Invokable expression_deepCopyOf_1878776147 = this;
      __dI();
      if ($if(v_deepCopyOf_1878776147.isAttributeBuilder())) {
        __dI();$___.convertToValueType, v_deepCopyOf_1878776147.getAttributeBuilderDescriptor();
        __out("(");
        $(___.expression_deepCopyOf_1878776147);
        __out(")");
      } else {
        __dI();$___.v_deepCopyOf_1878776147.getAttributeValueType.factoryCopyOf();
        __out("(");
        $(___.expression_deepCopyOf_1878776147);
        __out(")");
      }
    }

    __dI();
  }
}
__out(";").ln();
__out("  ");

}
__dI();__ln();
__out("  ");
__dI();
if ($if(v.nullElements.allow())) {
  __dI();__ln();
  __out("  this.");
  $(___.v.name());
  __out(" .add(");
{final org.immutables.value.processor.meta.ValueAttribute v_maybeToBuilder_53814988 = $cast(v);
  final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = new
  org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dI();final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = this;
      __out("element");
    }

```
if ($if(v.maybeToBuilder_53814988.isAttributeBuilder())) {
  $(__, valueToBuilder, v.maybeToBuilder_53814988.getAttributeBuilderDescriptor(), new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dl();$(__, expression_maybeToBuilder_53814988);
      __dl();
    }});
} else {
  __dl();$(__, expression_maybeToBuilder_53814988);
}

__dl();
__out(";").ln();
__out("  ");
} else if ($if(v.nullElements.skip())) {
  __dl();__ln();
  __out("  if (element != null) this.");
  $(__, v.name());
  __out(".add(");
  {final org.immutables.value.processor.meta.ValueAttribute v_maybeToBuilder_53814988 = $cast(v);
   final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = new org.immutables.generator.Templates.Fragment(0) {
     @Override public void run(org.immutables.generator.Templates.Invokation __) {
       __dl();final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = this;
       __out("element");
       __dl();
     }};__dl();__dl();
  if ($if(v.maybeToBuilder_53814988.isAttributeBuilder())) {
    __dl();$(__, valueToBuilder, v.maybeToBuilder_53814988.getAttributeBuilderDescriptor(), new org.immutables.generator.Templates.Fragment(0) {
      @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __dl();$(__, expression_maybeToBuilder_53814988);
        __dl();
      }});
  } else {
    __dl();$(__, expression_maybeToBuilder_53814988);
  }
  __dl();
  __out(";").ln();
  __out("  ");
}
n_convertToBuilderType_187063380 = $cast(v.getAttributeBuilderDescriptor());

__out("convertToBuilderType");

$___.n_convertToBuilderType_187063380.getQualifiedNameWithUnderscores();

} ___.out("(elements)");

} else {
  ___.dl();___.out("elements");

} ___.dl();___.out(";").ln();
_.out(" ");

} ___.dl();___.ln();
_.out(" ");$
___.nondefaultSetInBuilder, v);
_.ln();
_.out(" return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);

} ___.dl();
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending) {
  ___.dl();___.out("(");
  $(___.type_builderReturnThis_1267082624.typeBuilder());
  ___.out(" ");

} ___.dl();___.out("this");

}
_.out(";").ln();
_.out(" ");}.ln();
_.out(" ");}
_.dl();
if ($if(v.isAttributeBuilder()) {
  ___.dl();___.ln();
  _.ln();
  _.out(" */**").ln();
  _.out(" * Adds elements to ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$(___.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);

} ___.out(" ");$
___.toLowerCase, v.getRawCollectionType());
_.out(".").ln();
_.out(" * @param elements An iterable of ");
$(__, v.name());
__out(" builder elements").ln();
__out(" * @return {@code this} builder for use in a chained invocation").ln();
__out(" */").ln();
__out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
  __dl();
  if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue")) {
    __dl();__out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
  }
  __dl();
}__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
  __dl();
  if ($if(a_deprecation_286924011.deprecated)) {
    __dl();__out("@Deprecated");
  }
  __dl();
}__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
  __dl();
  if ($if($(a_builderInitAccess_991723715.isBuilderParameter, or, a_builderInitAccess_991723715.isBuilderSwitcher()))) {
    __dl();
    if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
      __dl();__out("private ");
    } else {
      __dl();$__ a_builderInitAccess_991723715.getIntializerAccess();
    }
  }
}__out("final ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
  __dl();
  if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
    __dl();$__ type_builderReturnType_1031721330.typeBuilder();
  }
}
} else {
    __.dl();
    $(___.typeBuilderReturnType_1031721330.typeBuilder().simple());
    $(___.typeBuilderReturnType_1031721330.generics().args());

    __.dl();
}

$.out(" ");
$(__.v.names.addAllBuilder());
$.out("(Iterable<");

{final org.immutables.value.processor.meta.AttributeBuilderDescriptor
n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());

$(__.n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());

}
$.out(">");
$.out(" ");
$.out(" ");
$.dl();

if ($if(v.isNullableCollector())) {
    __.dl();
    $.ln();
    $.out(" ");
    $(__.requireNonNull, type);
    $.out("(elements, "");
    $(__.v.name());
    $.out("element");$.ln();
    $.out(" if (this.");
    $(__.v.name());
    $.out(" == null) ");
    $.ln();
    $.out(" ");
    $(__.defineOrResetBuildingFieldAlt, v, $$false, $$false);
    $.ln();
    $.out(" ");
    $.ln();
}

$.out(" ");
$.ln();
$.dl();

if ($if($(v.isGenerateJdkOnly(), or, v.hasAttributeValue()))) {
    __.dl();
    $.ln();
    $.out(" for ");
    } finally org.immutables.value.processor.meta.AttributeBuilderDescriptor
n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());

$(__.n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());

}

$.out(" element : elements ");
$.ln();
if ($if(v.nullElements.allow()) { 
  __.dl();__.ln();
  __.out("      this.");
  $___.v.name());
  __.out(".add(element);").ln();
  __.out("       ");
} else if ($if(v.nullElements.skip()) { 
  __.dl();__.ln();
  __.out("      if (element != null) this.");
  $(_. v.name());
  __.out(".add(element);").ln();
  __.out("       ");
}
] else { 
  __.dl();__.ln();
  __.out("      ");
  $(_. v.name());
  __.out(".add() ");
  $___.requireNonNull, type); 
  __.out("(element, ");
  $(_. v.name());
  __.out(" element) ");.ln();
  __.out("       ");
}
} else { 
  __.dl();__.ln();
  __.out("      ");
  $(_. v.name());
  __.out(".addAll(elements);").ln();
  __.out("      ");
}
} else { 
  __.dl();__.ln();
  __.out("      ");
  $(_. nondefaultSetInBuilder, v); 
  __.ln();
  __.out(" return ");
[final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type); 
  __.dl();
  if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) { 
  __.dl();__.out("(");

```java
__dl();__out("absent");
}
__dl();__out("()");
}
__out("}");
}
__dl();__ln();
__out(" * @return { @code this} builder for chained invocation").ln();
__out(" */").ln();
__out(" ");
$(__, eachLine, v.elementInitializerInjectedAnnotations());
__ln();
__out(" ");
[final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
__dl();
if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue"))) {
    __dl();__out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
}
__dl();
}
__ln();
__out(" ");
[final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if($(a_deprecation_286924011, deprecated)) {
    __dl();__out("@Deprecated");
}
__dl();
}
__ln();
__out(" ");
[final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
__dl();
if ($if($(a_builderInitAccess_991723715, isBuilderParameter, or,
a_builderInitAccess_991723715.isBuilderSwitcher()))) {
    __dl();__dl();
    if ($if($(a_builderInitAccess_991723715.containingType.kind(),isFactory())) {
        __dl();__out("private ");
    }
```

} else {
    __dl();$(__, a_builderInitAccess_991723715.getIntializerAccess());
}

__dl();
}
__out("final ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
__dl();
if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
    __dl();$(__, type_builderReturnType_1031721330.typeBuilder());
} else {
    __dl();$(__, type_builderReturnType_1031721330.typeBuilder().simple());
$(__, type_builderReturnType_1031721330.generics().args());
}
__dl();
}
__out(" ");
$(__, v.names.init);
__out("()");
{final org.immutables.value.processor.meta.ValueAttribute a_unwrappedOptionalType_1615308684 = $cast(v);
__dl();
if ($if($(a_unwrappedOptionalType_1615308684.isOptionalType(), and, a_unwrappedOptionalType_1615308684.isOptionalAcceptNullable()))) {
    __dl();$(__, atNullable, a_unwrappedOptionalType_1615308684);
$(__, a_unwrappedOptionalType_1615308684.getWrappedElementType());
} else {
    __dl();$(__, a_unwrappedOptionalType_1615308684.getUnwrappedElementType());
}
__dl();
__out(" ");
$(__, v.name());
__out(" ");
$(__, checkNotIsSet, v);
__ln();
__out(" ");
__dl();
if ($if($(v.isJdkOptional(), and, type.kind().isFactory()))) {
    __dl();__ln();
    __out(" this.");
$(__, v.name());
}
__.out(" = ");
{final org.immutables.value.processor.meta.ValueAttribute a_optionalOf_332927268 = $cast(v);
  __.out(".");
  __.dl();
  if ($if($(not, a_optionalOf_332927268.isOptionalAcceptNullable()))) {
    __.dl();___.dl();
    if ($if($(a_optionalOf_332927268.isFugueOptional(), or,
      a_optionalOf_332927268.isJavaslangOptional()))) {
      __.dl();___.out("some");
    } else {
      __.dl();___.out("of");
    }
  } else if ($if(a_optionalOf_332927268.isJdkOptional())) {
    __.dl();___.out("ofNullable");
  } else if ($if(a_optionalOf_332927268.isFugueOptional())) {
    __.dl();___.out("option");
  } else if ($if(a_optionalOf_332927268.isJavaslangOptional())) {
    __.dl();___.out("of");
  } else {
    __.dl();___.out("fromNullable");
  }
  __.dl();
  __.out("(Throwable)");
}

final org.immutables.value.processor.meta.ValueAttribute v_maybeCopyOf_1779456614 = $cast(v);
final org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 = new
org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __.dl();final org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 =
this;
      $(__, v.name());
      __.dl();
    }).__dl();___.dl();
  if ($if(v_maybeCopyOf_1779456614.isGenerateImmutableCopyOf)) {
    __.dl();___.out("immutableCopyOf(");
    $(__, expression_maybeCopyOf_1779456614);
    __.out(")");
  } else {
    __.dl();$___.expression_maybeCopyOf_1779456614);
  }
  __.dl();
if ($if($if($(v.isJdkOptional(), and, $($(v.isJdkSpecializedOptional(), or, v.isOptionalAcceptNullable()), or, v.isPrimitiveElement())))
   
   @Override
   public void run(org.immutables.generator.Templates.Invokation __) {
      __dl();
      $(__, v.name());
      ___dl();
   }

   final org.immutables.value.processor.meta.ValueAttribute v_maybeCopyOf_1779456614 = $cast(v);
   final org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 = new
   org.immutables.generator.Templates.Fragment(0)
   {
      @Override
      public void run(org.immutables.generator.Templates.Invokation __) {
         __dl();
         $(__, v.name());
         ___dl();
      }
   }

   if ($if(v_maybeCopyOf_1779456614.isGenerateImmutableCopyOf))
      
   else {
      __dl();
   }

   final org.immutables.value.processor.meta.AttributeBuilderDescriptor
   n_valueToBuilder_1442539515 = $cast(v.getAttributeBuilderDescriptor());
   final org.immutables.generator.Templates.Invokable expression_valueToBuilder_1442539515 = new
   org.immutables.generator.Templates.Fragment(0)
   {
      @Override
      public void run(org.immutables.generator.Templates.Invokation __) {
         __dl();
         $(__, requireNonNull, type);
         __out(" ");
         $(__, v.name());
      }
   }

   if ($if(v.isAttributeBuilder()))
      
   else if ($if(v.isJdkOptional()))
      
   else if ($if(v.isJdkOptional()))
      
   else if ($if($if($if($(v.isJdkOptional(), and, $($(v.isJdkSpecializedOptional(), or, v.isOptionalAcceptNullable()), or, v.isPrimitiveElement())))

   }
}
  .out(";");

}

}.dl();}.ln();
}.out(" ");

} else {
  .dl();}.ln();
  .out("  this.");
$.(__, v.name());
  .out(" = ");
{final org.immutables.value.processor.meta.ValueAttribute a_optionalOf_332927268 = $cast(v);
$.(__, a_optionalOf_332927268.getRawType());
  .out(".");
  .dl();
  if ($(not, a_optionalOf_332927268.isOptionalAcceptNullable())) {
    .dl();
    if ($(a_optionalOf_332927268.isFugueOptional(), or,
a_optionalOf_332927268.isJavaslangOptional())) {
      .dl();}.out("some");
    } else if (a_optionalOf_332927268.isJdkOptional())) {
      .dl();}.out("ofNullable");
    } else if (a_optionalOf_332927268.isFugueOptional())) {
      .dl();}.out("option");
    } else if (a_optionalOf_332927268.isJavaslangOptional())) {
      .dl();}.out("of");
    } else {
      .dl();}.out("ofNullable");
  }
  .dl();
}
  .dl();} else if ($(a_optionalOf_332927268.isJdkOptional())) {
    .dl();}.out("ofNullable");
  } else if ($(a_optionalOf_332927268.isFugueOptional())) {
    .dl();}.out("option");
  } else if ($(a_optionalOf_332927268.isJavaslangOptional())) {
    .dl();}.out("of");
  } else {
    .dl();}.out("fromNullable");
}

}.dl();
}

}.out("\n");
{final org.immutables.value.processor.meta.ValueAttribute v_maybeCopyOf_1779456614 = $cast(v);
final org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 = new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    .dl();final org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 = this;
$.(__, v.name());
    .dl();
}
if ($if(v_maybeCopyOf_1779456614.isGenerateImmutableCopyOf)) {
    __.dl();___.out("immutableCopyOf(");
    ___.out(";").ln();
} else {
    __.dl();
}

if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
    __.dl();___.out("(");
    ___.dl();___.out(") ");
} else {
    __.dl();
}

{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
    __.dl();
}

if ($if(v.isAttributeBuilder())) {
    __.dl();
    __.ln();
    __.out("/**");
    __.out(" * Returns a builder for ");
    {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
        __.out(".");
        __.out("*");
        __.out("* Once called, the attribute builder field is set to a new instance of the builder.");
    }
    __.ln();
    __.out(" */");
    __.ln();
    __.out(" ");
}

if ($if(v_maybeCopyOf_1779456614.isGenerateImmutableCopyOf)) {
    __.dl();
    __.out("immutableCopyOf(");
    __.out(";").ln();
} else {
    __.dl();
}
* If called more than once, returns the same builder instance.

* */

 */

 {final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
     if (Sif(a_deprecation_286924011.deprecated)) {
       __dl(); __out("@Deprecated");
     }
     __dl();
   }
   __ln();
   __out(" ");
   {final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
     if ($if($(a_builderInitAccess_991723715.isBuilderParameter, or,
        a_builderInitAccess_991723715.isBuilderSwitcher())) {
       __dl(); __dl();
       if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
         __dl(); __out("private ");
       }
       __dl();
     } else {
       __dl(); S(__, a_builderInitAccess_991723715.getInitializerAccess());
     }
     __dl();
   }
   __out("final ");
   {final org.immutables.value.processor.meta.AttributeBuilderDescriptor
     n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());
     S(__, n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());
   }
   __out(" ");
   S(__, v.names.getBuilder());
   __out("() ").ln();
   __out("  if (this.");
   S(__, v.name());
   __out(" == null ").ln();
   __out("  this.");
   S(__, v.name());
   __out(" = ");
   {final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_createAttributeBuilder_175285279
```java
= $cast(v.getAttributeBuilderDescriptor());

$___.out("()").ln();

$___.out("  }").ln();

$___.out("      }").ln();

$___.out("      nondefaultSetInBuilder, v);

$___.ln();

$___.out("      mandatorySetInBuilder, v);

$___.ln();

$___.ln();

$___.out("      return this.");

$___.out(";").ln();

$___.out("  }").ln();

$___.out("  */").ln();

$___.out("  */");

{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
  $___.dl();
  if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue")) {
    $___.dl();___.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
  }
}

$___.out("  return this.");

$___.out("  to the provided builder.");

$___.out("  */");

$___.out("  */");

{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
  $___.dl();
  if ($if(a_deprecation_286924011.deprecated)) {
    $___.dl();___.out("@Deprecated");
  }
}
```
final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);

if ($if($a_builderInitAccess_991723715.isBuilderParameter, or,
a_builderInitAccess_991723715.isBuilderSwitcher())) {
    __._dl();
    if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory())
        __._dl();
    __._out("private ");
}

__._dl();
} else {
    __._dl();
    __._out("private ");
    __._out(_a_builderInitAccess_991723715.getInitializerAccess());
}
__._dl();

final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);

if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)
    __._dl();
    __._out(_type_builderReturnType_1031721330.typeBuilder());
} else {
    __._dl();
    __._out(_type_builderReturnType_1031721330.typeBuilder().simple());
    __._out(_type_builderReturnType_1031721330.generics().args());
}
__._dl();
__._out("final ");

$v$.names.setBuilder();
__._out("(");
$v$.atNullability();
$v$.getAttributeBuilderDescriptor().getQualifiedBuilderTypeName();
__._out(" ");
$v$.name();
__._out(" = ");

$(_. v.name());
__out(";").ln();
__out(" ");
$(_. nondefaultSetInBuilder, v);
__ln();
__out(" ");
$(_. mandatorySetInBuilder, v);
__ln();
__out(" return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
__dl();
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
__dl();__out("(");
$(_. type_builderReturnThis_1267082624.typeBuilder());
__out(" )");
}
__dl();__out("this");
}
__out(";").ln();
__out(" ");

{final org.immutables.generator.Templates.Iteration _it3 = new
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute c : $in(v.getConstructorParameters())) {
__dl();__ln();
__ln();
__out(" /**");
__out(" * Constructs and initializes the optional value for the ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$(_. sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out(" attribute.");
__out(" ");
{final org.immutables.generator.Templates.Iteration _it3 = new
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute c : $in(v.getConstructorParameters())) {
__dl();__ln();
__out(" * @param ");
$(_. c.name());
__out(" The value for 
@code ");
$(_. v.name());
__out(".");
}
if (Sif(c.isNullable())) {
__dl();__out("(can be {@code null})");
}
__dl();__ln(); __out(" "); __dl();__it3.index++;
_it3.first = false; }
__dl();__ln();__out(" * @return {@code this} builder for use in a chained invocation").ln();
__out(" */").ln();
__out(" ");
$___.eachLine, v.elementInitializerInjectedAnnotations();
__ln();__out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 =
$cast(type);
__dl();
if (Sif($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
"com.google.errorprone.annotations.CanIgnoreReturnValue"))) {
__dl();__out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
}
__dl();
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 =
$cast(v);
__dl();
if (Sif($(a_deprecation_286924011.deprecated))
{ __dl();__out("@Deprecated");
}
__dl();
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 =
$cast(v);
__dl();
if (Sif($(a_builderInitAccess_991723715.isBuilderParameter, or,
a_builderInitAccess_991723715.isBuilderSwitcher())))
{__dl();__dl();
if (Sif($(a_builderInitAccess_991723715.containingType.kind().isFactory()))
{ __dl();__out("private ");}
__dl();
} else {
    __dl():$___.a_builderInitAccess_991723715.getIntializerAccess();
}
__dl();
}
__out("final ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
__dl();
if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
    __dl():$___.type_builderReturnType_1031721330.typeBuilder();
} else {
    __dl():$___.type_builderReturnType_1031721330.typeBuilder().simple();$
$(___.type_builderReturnType_1031721330.generics().args());
}
__dl();
__out(" ");$
$(___.v.names.init);
__out("(");
{final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute c : $in(v.getConstructorParameters())) {
    __dl();__dl();
    if ($if($(not, _it3.first)) {
        __dl():__out(" , ");
    }
    __dl():$___.c.atNullability();$
$(___.c.getType());
__out(" ");$
$(___.c.name());
__dl():_it3.index++;_it3.first = false;
}
__dl();__out(" )");
__out(" return ");$
$(___.v.names.init);
__out("(");$
$(___.v.attributeValueType.factoryOf());
__out("(");
{final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute c : $in(v.getConstructorParameters())) {
    __.dl();___.dl();
    if ($if($not, __.first))) {
        __.dl();___.out(" ");
    }
    __.dl();$___.c.name();
    __.dl();___.it3.index++;___.it3.first = false;
    }
    __.dl();___.out(")").ln();
    __.out(" ").ln();
    __.out(" ");
}
___.dl();___.ln();
___.out(" ");

___.dl();___.ln();
___.ln();
___.out(" ");ln();
___.out(" * Initializes the optional value ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$_(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
___.out(" to ");
$(__, v.name());
___.out(" ").ln();
___.out(" * @param ");
$(__, v.name());
___.out(" The value for ");
$(__, v.name());
___.ln();
___.out(" * @return [@code this] builder for use in a chained invocation").ln();
___.out(" ");ln();
___.dl();
if ($if($type.kind().isFactory(), ornot, v.isJdkOptional())) {
    __.dl();___.ln();
    __.out(" ");
    $(___, suppressCovariantCastForOptional, v);
    __.ln();
    __.out(" ");
}
___.dl();___.ln();
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```java
$.out(" ");
$.ln();
$.out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
 $.dl();
 if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
 "com.google.errorprone.annotations.CanIgnoreReturnValue")) {
 $.dl();$.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
 }
 $.dl();
 }
$.ln();
$.out(" ");
$.ln();
$.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
 $.dl();
 if ($if(a_deprecation_286924011.deprecated)) {
 $.dl();$.out("@Deprecated");
 }
 $.dl();
 }
$.ln();
$.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
 $.dl();
 if ($if($(a_builderInitAccess_991723715.isBuilderParameter, or,
 a_builderInitAccess_991723715.isBuilderSwitcher()))) {
 $.dl();$.dl();
 if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
 $.dl();$.out("private ");
 }
 $.dl();
 } else {
 $.dl();$.($__, a_builderInitAccess_991723715.getIntializerAccess());
 }
 $.dl();
 }
$.ln();
$.out("final ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
 $.dl();
}
```

if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending) {
  $.dl();$.(__, type_builderReturnType_1031721330.typeBuilder());
}

} else {
  $.dl();$.(__, type_builderReturnType_1031721330.typeBuilder().simple());
  $.(__, type_builderReturnType_1031721330.generics().args());
}

$.dl();

$.(__.out(" ");
$.(__, v.names.init);
$.(__.out("\n");
$.(__, v.getRawType());
$.dl();
if ($if($(__, v.isJdkSpecializedOptional())) {
  $.dl();$.(__.out("<"));
  $.(__, v.getConsumedElementType());
  $.(__.out(">"));
}

$.dl();$.(__.out(" ");
$.(__, v.name());
$.(__.out(" ");).ln();
$.(__.out(" ");)
$.(__, v.getRawType());
$.dl();
if ($if($(__, v.isJdkOptional(), and, type.kind().isFactory())) {
  $.dl();$.(__.ln());
  $.(__.out(" this.");
  $.(__, v.name());
  $.(__.out(" = ");
  $.(__, v.getType());
  $.(__.out(" ");)
  $.(__, requireNonNull, type);
  $.(__.out("\n");
  $.(__, v.name());
  $.(__.out("\
");
  $.(__, v.name());
  $.(__.out("\n");).ln();
  $.(__.out(" ");)
} else if ($if($(__, v.isAttributeBuilder())) {
  $.dl();$.(__.ln());
  $.(__.out(" this.");
  $.(__, v.name());
  $.(__.out(" = ");
}
{final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_convertToBuilderType_187063380 = $cast(v.getAttributeBuilderDescriptor());
  __.out("convertToBuilderType");
  $(__, n_convertToBuilderType_187063380.getQualifiedValueTypeNameWithUnderscores());
}
  __.out("(");
  $(__, valueFromValue, v, v.name());
  __.out(";").ln();
  __.out(" ");
}
} else {
  __.dl();___.ln();
  __.out("this.");
  $(__, v.name());
  __.out(" = ");
  $(__, valueFromValue, v, v.name());
  __.out(";").ln();
  __.out(" ");

  __.dl();___.ln();
  __.out(" ");
  $(__, nondefaultSetInBuilder, v);
  __.ln();
  __.out(" return ");
  {final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
    __.dl();
    if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending) { 
      __.dl();___.out("(");
      $(__, type_builderReturnThis_1267082624.typeBuilder());
      __.out(" ");
    }
    __.dl();___.out("this");
  }
  __.out(";").ln();
  __.out(" ");___.ln();
  __.out(" ");
} else if ($if(v.isMapType())) {
  __.dl();___.ln();
  __.out(" ");___.ln();
  __.out(" ");
} else if ($if(v.isMapType())) {
  __.dl();___.ln();
  __.out(" ");
} else if ($if(v.isMapType())) {
  __.dl();___.ln();
  __.out(" ");
  final org.immutables.generator.Templates.Iteration _it3 = new org.immutables.generator.Templates.Iteration();
  final java.lang.String gE = $cast(v.getConsumedElementType());
  final java.lang.String uK = $cast(v.getUnwrappedElementType());
  final java.lang.String wK = $cast(v.getWrappedElementType());
  final java.lang.String uV = $cast(v.getUnwrappedSecondaryElementType());
}
final java.lang.String wV = $cast(v.getWrappedSecondaryElementType());
__dl();__.ln();
__out(" ");
__dl();
if ($if(v.isMultimapType())) {
__dl();__.ln();
__out(" ");
__dl();
if ($if($not, v.isBuilderParameter)) {
__dl();__.ln();
__ln();
__out(" /**").ln();
__out(" * Put all mappings from the specified key to values for ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out(" ");
$___.toLower, v.isMapType();
__out(" Nulls are not permitted").ln();
__out(" * @param key The key for ");
$___.v.name();
__ln();
__out(" * @param values The values for ");
$___.v.name();
__ln();
__out(" * @return [code this] builder for use in a chained invocation");
__ln();
__out(" */").ln();
__out(" ");
$___.eachLine, v.elementInitializerInjectedAnnotations();
__ln();
__out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
__dl();
if ($if($s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
"com.google.errorprone.annotations.CanIgnoreReturnValue")) {
__dl();__.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
}
__dl();
}
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_varargsSafety_1368213209 = $cast(v);
__dl();
if ($if($a_varargsSafety_1368213209.isNonRawElementType(), or,
a_varargsSafety_1368213209.hasTypeVariables)) {
$(__, v.names.putv());
$__out("(");
$__out(" key,");
$__out(" ...
values) {".ln();
$__out(" ");
$__dl();
if ($if(v.isNullable()) {
  $__dl();__.ln();
  $__out(" if (this.");
  $__out(" == null) {".ln();
  $__out(" ");
  $__defineOrResetBuildingFieldAlt, v, $$false, $$false);
  _.ln();
  $__out(" ");.ln();
  $__out(" ");
}
$__dl();__.ln();
$__out(" this.");
$__out(" .putAll(key,");
$__out(" ");.ln();
$__out(" ");
$__out(" ");
$_nondefaultSetInBuilder, v);
$__ln();
$__out(" return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
  $__dl();
  if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
    $__dl();__.out("(");
    $__out(" ");.ln();
    $__out(" ");
  }
  $__dl();__.out("this");
}
$__out(";").ln();
$__out(" ");.ln();
$__out(" ");
$__out(" ");
$__out(" Put all mappings from the specified key to values for ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
  $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
__out(" ");
$___.toLowerCase(v.isMapType());
$___.out(" . Nulls are not permitted").ln();
$___.out("   * @param key The key for ");
$___.v.name();
$___.ln();
$___.out("   * @param values The values for ");
$___.v.name();
$___.ln();
$___.out("   * @return @code this builder for use in a chained invocation");ln();
$___.out(" */").ln();
$___.out(" ");
$___.eachLine(v.elementInitializerInjectedAnnotations());
$___.ln();
$___.out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
  __dl();
  if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue")) {
    __dl();___.out("@com.google.errorprone.annotations.CanIgnoreReturnValue");
  }
  __dl();
}
$___.ln();
$___.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
  __dl();
  if ($if(a_deprecation_286924011.deprecated)) {
    __dl();___.out("@Deprecated");
  }
  __dl();
}
$___.ln();
$___.out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
  __dl();
  if ($if($(a_builderInitAccess_991723715.isBuilderParameter, or, a_builderInitAccess_991723715.isBuilderSwitcher()))) {
    __dl();___.dl();
    if ($if(a_builderInitAccess_991723715.isBuilderParameter, or, a_builderInitAccess_991723715.isBuilderSwitcher())) {
      __dl();___.dl();
      if ($if($(a_builderInitAccess_991723715.isBuilderParameter, or, a_builderInitAccess_991723715.isBuilderSwitcher()))) {
        __dl();___.dl();
        if ($if($(a_builderInitAccess_991723715.isBuilderParameter, or, a_builderInitAccess_991723715.isBuilderSwitcher()))) {
          __dl();
        }
      }
    }
  }
}
```java
public final Builder putOneEntryToTheMap(String key, String value) {
    putOneEntryToTheMap(key, value)
    return this;
}
```

```java
/**
 * Put one entry to the map.
 * @param key The key in the map
 * @param value The associated value in the map
 * @return this builder for use in a chained invocation
 */
```
$cast(type);
    __dl();
    if (Sif($s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue")) {
        __dl();__out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
    }
    __dl();
}
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
    __dl();
    if (Sif(a_deprecation_286924011.deprecated)) {
        __dl();__out("@Deprecated");
    }
    __dl();
}
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
    __dl();
    if (Sif($a_builderInitAccess_991723715.isBuilderParameter, or, a_builderInitAccess_991723715.isBuilderSwitcher())) {
        __dl();__dl();
        if (Sif(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
            __dl();__out("private ");
        }
        __dl();
    } else {
        __dl();$(__, a_builderInitAccess_991723715.getInitializerAccess());
    }
    __dl();
    __out("final ");
}
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
    __dl();
    if (Sif(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
```java
___.dl();$(__, type_builderReturnType_1031721330.typeBuilder());
}
else {
  ___.dl();$(__, type_builderReturnType_1031721330.typeBuilder().simple());
  $(__, type_builderReturnType_1031721330.generics().args());
}
  __.dl();
  __.out(" ");
$(__, v.names.put());
  __.out("(");
  
{final org.immutables.value.processor.meta.ValueAttribute a_atElementNullable_1621680092 = $cast(v);
  __.dl();
  if ($if($(not, a_atElementNullable_1621680092.nullElements.ban()))) {
    __.dl();$(__, atNullable, a_atElementNullable_1621680092);
  }
  __.dl();
  $(__, uK);
  __.out(" key, ");
  
{final org.immutables.value.processor.meta.ValueAttribute a_atElementNullable_1621680092 = $cast(v);
  __.dl();
  if ($if($(not, a_atElementNullable_1621680092.nullElements.ban()))) {
    __.dl();$(__, atNullable, a_atElementNullable_1621680092);
  }
  __.dl();
  $(__, uV);
  __.out(" value ")}.ln();
  __.out(" ");
  __.dl();
  if ($if(v.isNullableCollector())) {
    __.dl();___.ln();
    __.out("    if (this.");
    $(__, v.name());
    __.out(" == null ")}.ln();
    __.out(" ");
    $(__, defineOrResetBuildingFieldAlt, v, $$false, $$false);
    _ln();
    __.out("    ").ln();
    __.out(" ");
  }
  __.dl();___.ln();
  __.out(" ");
```
if ($if(v.isGenerateJdkOnly())) {
  __.dl();__.ln();
  __.out("      ");
  __.dl();
  if ($if(v.isNullElements.allow())) {
    __.dl();__.ln();
    __.out("    this.");
    $(__, v.name());
    __.out(".put(key, value);").ln();
    __.out("      ");
  } else if ($if(v.isNullElements.skip())) {
    __.dl();__.ln();
    __.out("    if (value != null";
    __.dl();
    if ($if($(not, v.isPrimitiveElement()))) {
      __.dl();__.ln();
      __.out("      ");
      __.out("    this.");
      $(__, v.name());
      __.out(".put(key, value);").ln();
      __.out("      ");
    } else {
      __.dl();__.ln();
      __.out("    this.");
      $(__, v.name());
      __.out(".put(").ln();
      __.out("        ");
      $(__, requireNonNull, type);
      __.out("(key, "");
      $(__, v.name());
      __.out(" key"),").ln();
      __.out("        ");
      $(__, requireNonNull, type);
      __.out("(value, "");
      $(__, v.name());
      __.out(" value")").ln();
      __.out("      ");
    }
  } else {
    __.dl();__.ln();
    __.out("    this.");
  }
}

} else if ($if(v.isNullElements.skip())) {
  __.dl();__.ln();
  __.out("    if (value != null";
  __.dl();
  if ($if($(not, v.isPrimitiveElement()))) {
    __.dl();__.ln();
    __.out("      ");
    __.out("    this.");
    $(__, v.name());
    __.out(".put(key, value);").ln();
    __.out("      ");
  } else {
    __.dl();__.ln();
    __.out("    this.");
  }

} else {
  __.dl();__.ln();
  __.out("    this.");
}
$(__, v.name());
    __out(".put(key, value);").ln();
    __out("  ");
}
__dl();__ln();
__out("  ");
$__ nondefaultSetInBuilder, v);
__ln();
__out("    return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
__dl();
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending) {
    __dl();__out("(");
    $__ type_builderReturnThis_1267082624.typeBuilder();
    __out(") ");
}
__dl();__out("this");
}
__out(";").ln();
__out("  }").ln();
__ln();
__out("  /**").ln();
__out(" * Put one entry to the ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$__ sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out(" map. Nulls are not permitted").ln();
__out(" * @param entry The key and value entry").ln();
__out(" * @return [ @code this ] builder for use in a chained invocation").ln();
__out(" */").ln();
__out(" ");
$__ eachLine, v.elementInitializerInjectedAnnotations();
__ln();
__out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
__dl();
if ($if(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
"com.google.errorprone.annotations.CanIgnoreReturnValue")}) {
    __dl();__out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
}
__dl();
}
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {
    __dl();__out("@Deprecated");
}
__dl();
}
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
__dl();
if ($if($(a_builderInitAccess_991723715.isBuilderParameter, or, a_builderInitAccess_991723715.isBuilderSwitcher()))) {
    __dl();__dl();
    if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
        __dl();__out("private ");
    }
    __dl();
} else {
    __dl();$___. a_builderInitAccess_991723715.getInitializerAccess();
}
__dl();
__out("final ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
__dl();
if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
    __dl();$___. type_builderReturnType_1031721330.typeBuilder();
} else {
    __dl();$___. type_builderReturnType_1031721330.typeBuilder().simple();
$___. type_builderReturnType_1031721330.generics().args();
}
__dl();
__out(" ");
$___. v.names.put();
__out("(java.util.Map.Entry<");
$___. gE);
__out("?, ? extends ");
$___. wV);
__out("> entry) ").ln();
if ($if(v.isNullCollector())) {
    __.dl();___.ln();
    __.out("    if (this.");
    $(__, v.name());
    __.out(" == null ")\.ln();
    __.out("    ");
    $(__, defineOrResetBuildingFieldAlt, v, $false, $false);\n    __.ln();
    __.out("    ]").ln();
    __.out("    ");
}
___.dl();___.ln();
___.out("    ");
___.dl();
if ($if(v.isGenerateJdkOnly())) {
    __.dl();___.ln();
    __.out("    ");
    $(__, wK);
    __.out(" k = entry.getKey();")\.ln();
    __.out("    ");
    $(__, wV);
    __.out(" v = entry.getValue();")\.ln();
    __.out("    ");
    __.dl();
    if ($if(v.nullElements.allow())) {
        __.dl();___.ln();
        __.out("    this.");
        $(__, v.name());
        __.out(".put(k, v);");.ln();
        __.out("    ");
    } else if ($if(v.nullElements.skip())) {
        __.dl();___.ln();
        __.out("    if (k != null && v != null) this.");
        $(__, v.name());
        __.out(".put(k, v);");.ln();
        __.out("    ");
    } else {
        __.dl();___.ln();
        __.out("    this.");
        $(__, v.name());
        __.out(".put(").ln();
        __.out("    ");
        $(__, requireNonNull, type);
        __.out("(k, \\
        ");
    }
} else {
$(__, v.name());
    __.out(" key"), ");
$(__, requireNonNull, type);
    __.out("(v, "");
$(__, v.name());
    __.out(" value")");
    __.out("  ");
}
    __.dl();___.ln();
exception {
    __.dl();___.ln();
    __.out(" this.");
$(__, v.name());
    __.out(".put(entry);")");
    __.out("  ");
}
    __.dl();___.ln();
    __.out("  ");
$(__, nondefaultSetInBuilder, v);
    __.ln();
    __.out(" return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
    __.dl();
    if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
        __.dl();___.out("(");
        $(__, type_builderReturnThis_1267082624.typeBuilder());
        __.out(" )");
    }
    __.dl();___.out("this");
}
    __.out(";")");
    __.out("  ");
    __.out("  ");
    __.dl();
    if ($if($not, type.isUseStrictBuilder())) {
        __.dl();___.ln();
        __.ln();
        __.out("  */*");
        __.dl();
        if ($if($not, type.isUseStrictBuilder()))) {
            __.dl();___.ln();
            __.ln();
            __.out("  */");
            __.out("  ");
            __.out("  ");
            __.dl();
            if ($if($not, type.isUseStrictBuilder()))) {
                __.dl();___.ln();
                __.ln();
                __.out("  */");
                __.out("  ");
                __.out("  ");
            }
        }
    }
    __.out("  ");
    __.out("  ");
    __.out("  ");

__out(" map. Nulls are not permitted");
__dl();
if ($if(v.isNull()) {
  __dl();__out(" as keys or values, but parameter itself can be null");
}
__dl();__ln();
__out("   * @param entries The entries that will be added to the ");
$___.v.name());
__out("   * @return @code this builder for use in a chained invocation");
__out("   */");
__out(" ");
$___.eachLine, v.initializerInjectedAnnotations();
__ln();
__out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
__dl();
if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue"))) {
  __dl();__out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
}
__dl();
}
__ln();
__out(" ");
$___.eachLine, v.getBuilderAttributeAnnotation());
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {
  __dl();__out("@Deprecated");
}
__dl();
}
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
__dl();
if ($if($(a_builderInitAccess_991723715.isBuilderParameter, or, a_builderInitAccess_991723715.isBuilderSwitcher()))) {
  __dl();__dl();
}
if ($is(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
    __.dl();__.out("private ");
}
___.dl();
} else {
    __.dl();$(__, a_builderInitAccess_991723715.getIntializerAccess());
}
___.dl();
___.out("final ");
}
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
    __.dl();
    if ($is(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
        __.dl();$(__, type_builderReturnType_1031721330.typeBuilder());
    } else {
        __.dl();$(__, type_builderReturnType_1031721330.typeBuilder().simple());
        $(__, type_builderReturnType_1031721330.generics().args());
    }
    ___.dl();
}
___.out(" ");
$___.v.names.init);
___.out("(");
$___.v.atNullability();
___.dl();
if ($is(v.isMultimapType())) {
    __.dl();$(__, guava);
    ___.out(".collect.Multimap");
} else {
    __.dl();___.out("java.util.Map");
}
___.dl();___.out("<");
$___.gE);___.out(" , ? extends ");
$___.wV);___.out(" > entries ) ").ln();
___.out(" ");
___.dl();
if ($is(v.isNullable())) {
    __.dl();___.ln();
    ___.out(" if (entries == null ) ").ln();}
/**
 * Put all mappings from the specified map as entries to the map. Nulls are not permitted.
 * @param entries The entries that will be added to the map.
 * @return this builder for use in a chained invocation.
 */

    private static StringBuilder __lines(StringBuilder sb)
    {
        final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
        $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
    }

    __out(" map. Nulls are not permitted").ln();
    __out(" * @param entries The entries that will be added to the ");
    $(__, v.name());
    __out(" map").ln();
    __out(" * @return { @code this} builder for use in a chained invocation");
    __out(" *");
    __out(" ");
    $(__, eachLine, v.initializerInjectedAnnotations());
    __ln();
    __out(" ");
    $(final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 =
    __cast(type);
    __dl();
        if ($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
    "com.google.errorprone.annotations.CanIgnoreReturnValue"))) {__dl();
         __out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
     }
    __dl();
    }
    __ln();
    __out(" ");
    $(final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 =
    __cast(v);
    __dl();
        if ($(a_deprecation_286924011, deprecated)) {
         __dl();
             __out("@Deprecated");
     }
    __dl();
    }
    __ln();
    __out(" ");
    $(final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 =
    __cast(v);
    __dl();
        if ($(a_builderInitAccess_991723715, isBuilderParameter, or,
         a_builderInitAccess_991723715, isBuilderSwitcher()))} {
         __dl();
             __out("private ");
     }
if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
    $(__, type_builderReturnType_1031721330.typeBuilder());
} else {
    $(__, type_builderReturnType_1031721330.typeBuilder().simple());
}$(__, type_builderReturnType_1031721330.generics().args());

if ($if(v.isMultimapType())) {
    $(__, guava);__out(".collect.Multimap");
} else {
    __out("java.util.Map");
}

if ($if(v.isNullableCollector())) {
    __ln();__out("<");$(__, gE);__out(",
    if (this.
    $(__, defineOrResetBuildingFieldAlt, v, $$false, $$false);__ln();
if ($if(v.isGenerateJdkOnly())) {
    .dl(); .ln();
    .out("    for (java.util.Map.Entry<");
    $(__, gE);
    .out("), ? extends ");
    $(__, wV);
    .out(" e : entries.entrySet()) {").ln();
    .out("      ");
    $(__, wK);
    .out("      k = e.getKey();");
    .out("      ");
    $(__, wV);
    .out("      v = e.getValue();");
    .out("      ");
    .dl();
    if ($if(v.nullElements.allow())) {
        .dl(); .ln();
        .out("      this.");
        $(__, v.name());
        .out(".put(k, v);").ln();
        .out("      ");
    } else if ($if(v.nullElements.skip())) {
        .dl(); .ln();
        .out("      if (k != null && v != null) this.");
        $(__, v.name());
        .out(".put(k, v);").ln();
        .out("      ");
    } else {
        .dl(); .ln();
        .out("      this.");
        $(__, v.name());
        .out(".put(").ln();
        .out("      ");
        $(__, requireNonNull, type);
        .out("(k, \" ");
        $(__, v.name());
        .out(" key\"),").ln();
        .out("      ");
        $(__, requireNonNull, type);
        .out("(v, \" ");
    }
} else {
    .dl(); .ln();
    .out("    ");
    $(__, v.name());
    .out(".put(").ln();
    .out("    ");
    $(__, requireNonNull, type);
    .out("(").ln();
    $(__, v.name());
    .out(" key"),").ln();
    .out("    ");
    $(__, requireNonNull, type);
    .out("(").ln();
}
$(__, v.name());
__.out(" value\"));\).ln();
__.out(" ");

})
__.dl();__.ln();
__.out(" }\"));\).ln();
__.out(" ");

} else {
__.dl();__.ln();
__.out(" this.\");
$__(__, v.name());
__.out(" putAll(entries);\"));\).ln();
__.out(" ");

}
__.dl();__.ln();
__.out(" ");
$__(__, nondefaultSetInBuilder, v);
__.ln();
__.out(" return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
__.dl();
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
__.dl();__.out("\");
$__(__, type_builderReturnThis_1267082624.typeBuilder());
__.out(" ");

}
__.dl();__.out("this");

}
__.out("\"));\).ln();
__.out(" }\"));\).ln();
__.out(" ");
__.dl();_it3.index++;
_it3.first = false;
}
__.dl();__.ln();
__.out(" ");
} else if ($if(v.isArrayType())) {
__.dl();__.ln();
__.ln();
__.out(" /**");\).ln();
__.out(" * Initializes the value for the ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$__(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
if ($if(v.isGenerateDefault)) {
  __dl(); __ln();
  __out(" * <p><em>If not set, this attribute will have a default value as defined by ");
  final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
  $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}

__out(" </em>").ln();
__out(" ");

__dl(); __ln();
__out(" * @param ");
$__ v.name());
__out(" The elements for ");
$__ v.name());
__ln();
__out(" * @return [ @code this builder for use in a chained invocation").ln();
__out(" */").ln();
__out(" ");
$__ eachLine, v.initializerInjectedAnnotations());
__ln();
__out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
  __dl();
  if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue"))) {
    __dl(); __out(" @com.google.errorprone.annotations.CanIgnoreReturnValue ");
  }
__dl();
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_varargsSafety_1368213209 = $cast(v);
  __dl();
  if ($if($(a_varargsSafety_1368213209.isNonRawElementType(), or, a_varargsSafety_1368213209.hasTypeVariables))) {
    __dl(); __out(" @SafeVarargs @ SuppressWarnings("varargs")");
  }
  __dl();
}
}__ln();
__out(" ");
$___.eachLine, v.getBuilderAttributeAnnotation());
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {
__dl();__out("@Deprecated");
}
__dl();
}
__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
__dl();
if ($if(a_builderInitAccess_991723715.isBuilderParameter, or,
a_builderInitAccess_991723715.isBuilderSwitcher()))) {
__dl();__dl();
if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
__dl();__out("private ");
}
__dl();
} else {
__dl();$___.a_builderInitAccess_991723715.getIntializerAccess());
}
__dl();
}
__out("final ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
__dl();
if ($if(type_builderReturnType_1031721330.isExtending)) {
__dl();$___.type_builderReturnType_1031721330.extend();
$___.type_builderReturnType_1031721330.typeBuilder());
}
else {
__dl();$___.type_builderReturnType_1031721330.typeBuilder().simple();
$___.type_builderReturnType_1031721330.generics().args());
}
__dl();
}
__out(" ");
$___.v.names.init);
__out("(");
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$___.getElementReturnType();
___.out("...");
$___.getName();
___.out("(").ln();
___.out(""");
$___.checkNotIsSet(v);
___.ln();
___.out(" this.");
$___.getName();
___.out(" = ");
$___.valueFromValue(v, v.getName());
___.out(".").ln();
___.out(" ");
$___.mandatorySetInBuilder(v);
___.ln();
___.out(" ");
$___.nondefaultSetInBuilder(v);
___.ln();
___.out(" return ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
___.dl();
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
___.dl();___.out("(");
$___.type_builderReturnThis_1267082624.typeBuilder();
___.out(" ");
___.dl();___.out("this");
}
___.out(".").ln();
___.out(" ").ln();
___.out(" ");
}
else {
___.dl();___.ln();
___.out(" ");
___.dl();
if ($if(v.getConstructorParameters())) {
___.dl();___.ln();
___.ln();
___.out("/**").ln();
___.out(" * Constructs and initializes the value for the ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$___.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw;
}
___.out(" attribute.").ln();
}
for (final org.immutables.value.processor.meta.ValueAttribute c : $in(v.getConstructorParameters())) {
    __.dl();___.ln();
    __.out(" * @param ");
    $(__, c.name());
    __.out(" The value for \{@code ");
    $(__, v.name());
    __.out(" .");
    $(__, c.name());
    __.out(" } ");
    __.dl();
    if ($if(c.isNullable())) {
        __.dl();___.out("(can be \{@code null\})");
    }
    __.dl();___.ln();
    __.out(" * @return \{@code this\} builder for use in a chained invocation")\.ln();
    __.out(" */").ln();
    __.out(" ");
    $ insanely();
    __.ln();
    __.out(" ");
    }
}
\[\text{final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);}\]
\[\text{__dl();}\]
\[\text{if ($if($(a_builderInitAccess_991723715.isBuilderParameter, or,}\]
\[\text{a_builderInitAccess_991723715.isBuilderSwitcher()))} \}\]
\[\text{__dl();}\]
\[\text{if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory()))} \}\]
\[\text{__dl();}\]
\[\text{__.out("private ");}\]
\[\text{__dl();}\]
\[\text{else} \}\]
\[\text{__dl();}\]
\[\text{$(__, a_builderInitAccess_991723715.getInitializerAccess());}\]
\[\text{__dl();}\]
\[\text{__.out("final ");}\]
\[\text{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);}\]
\[\text{__dl();}\]
\[\text{if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending))} \}\]
\[\text{__dl();}\]
\[\text{$(__, type_builderReturnType_1031721330.typeBuilder());}\]
\[\text{__dl();}\]
\[\text{else} \}\]
\[\text{__dl();}\]
\[\text{$(__, type_builderReturnType_1031721330.typeBuilder().simple());}\]
\[\text{$(__, type_builderReturnType_1031721330.generics().args());}\]
\[\text{__dl();}\]
\[\text{__.out(" ");}\]
\[\text{$(__, v.names.init);}\]
\[\text{__.out(" ");}\]
\[\text{final org.immutables.generator.Templates.Iteration _it3 = new}\]
\[\text{org.immutables.generator.Templates.Iteration();}\]
\[\text{for (final org.immutables.value.processor.meta.ValueAttribute c : $in(v.getConstructorParameters()))} \}\]
\[\text{__dl();}\]
\[\text{if ($if($not, _it3.first))} \}\]
\[\text{__dl();}\]
\[\text{__.out(" ");}\]
\[\text{__dl();}\]
\[\text{$(__, c.atNullability());}\]
\[\text{$(__, c.getType());}\]
\[\text{__.out(" ");}\]
\[\text{$(__, c.name());}\]
\[\text{__dl();}\]
\[\text{__it3.index++;}\]
_it3.first = false;
}
__dl();__out(" "))__ln();
__out(" return ");
$q(__, v.names.init);
__out(" ");
$q(__, v.attributeValueType.factoryOf());
__out(" ");
{final org.immutables.generator.Templates.Iteration _it3 = new
org.immutables.generator.Templates.Iteration();
  for (final org.immutables.value.processor.meta.ValueAttribute c : $in(v.getConstructorParameters())) {
    __dl();__dl();
    if (!$if($not, _it3.first)) {
      __dl();__out(" ");
      __dl();$__c.name());
      __dl();_it3.index++;
      _it3.first = false;
    }
    __dl();__out(" ").__ln();
    __out(" ").__ln();
    __out(" ");
    __dl();__ln();
    __ln();
    __out(" /** ").__ln();
    __out(" * Initializes the value for the ");
    }final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$q(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
    }
    __out(" attribute.").__ln();
    __out(" ");
    __dl();
  if (!$if(v.isGenerateDefault)) {
    __dl();__ln();
    __out(" * &lt;p&gt;&lt;em&gt;If not set, this attribute will have a default value as returned by the initializer of ");
    }final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$q(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
    }
    __out(" &lt;/em&gt;").__ln();
    __out(" ");
    }
    __dl();__ln();
__out(" * @param ");
$___.v.name());
__out(" The value for ");
$___.v.name());
__out( "");
__dl();
if ($if(v.isNullable()) {
  __dl();__out("(can be { @code null})");
}
__dl();__ln();
__out(" * @return {@code this} builder for use in a chained invocation").ln();
__out(" */").ln();
__out(" ");
$___.eachLine, v.initializerInjectedAnnotations());
__ln();
__out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
  __dl();
  if (Sif$(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
  "com.google.errorprone.annotations.CanIgnoreReturnValue")) {
    __dl();__out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
  }
  __dl();
  }
  __ln();
  __out(" ");
  $___.eachLine, v.getBuilderAttributeAnnotation());
  __ln();
  __out(" ");
  {final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
    __dl();
    if (Sif(a_deprecation_286924011.deprecated)) {
      __dl();__out("@Deprecated");
    }
  }
  __dl();
  }
  __ln();
  __out(" ");
  {final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
    __dl();
    if (Sif$(a_builderInitAccess_991723715.isBuilderParameter, or,
    a_builderInitAccess_991723715.isBuilderSwitcher())) {
      __dl();__dl();
      if (Sif$(a_builderInitAccess_991723715.containingType.kind().isFactory())) {


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__dl();__out("private ");

}__dl();
} else {
    __dl();$(__, a_builderInitAccess_991723715.getIntializerAccess());

}__dl();
}
__out("final ");
{final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
    __dl();
    if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
        __dl();$(__, type_builderReturnType_1031721330.typeBuilder());
    } else {
        __dl();$(__, type_builderReturnType_1031721330.typeBuilder().simple());
        $(__, type_builderReturnType_1031721330.generics().args());
    }
    __dl();
}
__out(" ");
$___.names.init;
__out("(");
$___.atNullability();
$___.getType();
__out(" ");
$___.name();
__out(" ").ln();
__out(" ");
$___.checkNotIsSet, v;
__ln();
__out(" ");
__dl();
if ($if($v.isBuilderSwitcher(), and, type.kind().isFactory())) {
    __dl();__dl();__ln();
    __out(" this.");
    $___.name();
    __out(" = ");
    $___.name();
    __out(";").ln();
    __out(" ");
} else {
    __dl();__ln();
    __out(" this.");
$(__, v.name());
    .out(" = ");
    {final org.immutables.value.processor.meta.ValueAttribute v_maybeToBuilder_53814988 = $cast(v);
     final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = new
     org.immutables.generator.Templates.Fragment(0) {
       @Override public void run(org.immutables.generator.Templates.Invokation __) {
         __.dl();final org.immutables.generator.Templates.Invokable expression_maybeToBuilder_53814988 = this;
         $(__, valueFromValue, v, v.name());
         __.dl();
       });___.dl();___.dl();
       if ($if(v_maybeToBuilder_53814988.isAttributeBuilder())) {
         __.dl();$(__, valueToBuilder, v_maybeToBuilder_53814988.getAttributeBuilderDescriptor(), new
         org.immutables.generator.Templates.Fragment(0) {
           @Override public void run(org.immutables.generator.Templates.Invokation __) {
             __.dl();$(__, expression_maybeToBuilder_53814988);
             __.dl();
           });
       } else {
         __.dl();$(__, expression_maybeToBuilder_53814988);
       }
       __.dl();
       __.out(";").ln();
       __.dl();
       __.out("; ");
       $(__, nondefaultSetInBuilder, v);
       __.ln();
       __.out(" ");
       $(__, mandatorySetInBuilder, v);
       __.ln();
       __.out(" return ");
     } else if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {
       __.dl();___.out("(");
       $(__, type_builderReturnThis_1267082624.typeBuilder());
       __.out(" )");
     }
     __.dl();___.out("this");
   }
   __.out(";").ln();
if ($if(v.isAttributeBuilder())) {
  __.dl();___.ln();
  __.ln();
  __.out("/* ").ln();
  __.out(" Returns a builder for ");
  {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
    $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
  }
  __.out(".").ln();
  __.out(" *").ln();
  __.out(" Once called, the attribute builder field is set to a new instance of the builder.").ln();
  __.out(" * If called more than once, returns the same builder instance.").ln();
  __.out(" */").ln();
  __.out(" ");
  $(__, eachLine, v.getBuilderAttributeAnnotation());
  __.ln();
  __.out(" ");
  {final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
    __.dl();
    if ($if(a_deprecation_286924011.deprecated)) {
      __.dl();___.out("@Deprecated");
    }
    __.dl();
  }
  __.ln();
  __.out(" ");
  {final org.immutables.value.processor.meta.ValueAttribute a_builderInitAccess_991723715 = $cast(v);
    __.dl();
    if ($if($(a_builderInitAccess_991723715.isBuilderParameter, or,
      a_builderInitAccess_991723715.isBuilderSwitcher()))) {
      __.dl();___.dl();
      if ($if(a_builderInitAccess_991723715.containingType.kind().isFactory())) {
        __.dl();___.out("private ");
      }
      __.dl();
    } else {
      __.dl();$(__, a_builderInitAccess_991723715.getInitializerAccess());
    }
    __.dl();
  }
  __.out("final ");
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{final org.immutables.value.processor.meta.AttributeBuilderDescriptor
n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());
$(__, n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());
}

__out(" ");
$___.v.names.getBuilder();
__out("{ }").In();
__out(" if (this.");
$___.v.name();
__out(" == null) {".In();
__out(" this.");
$___.v.name();
__out(" = ");
{final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_createAttributeBuilder_175285279
= $cast(v.getAttributeBuilderDescriptor());
$(__, n_createAttributeBuilder_175285279.getQualifiedBuilderConstructorMethod());
__out("();
}
__out(";").In();
__out(" }").In();
__out(" ");
$___.nondefaultSetInBuilder, v);
__ln();
__out(" ");
$___.mandatorySetInBuilder, v);
__ln();
__ln();
__out(" return this.");
$___.v.name();
__out(";").In();
__out(" }".ln();
__ln();
__out(" /* * Sets */
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out(" to the provided builder.").In();
__out(" */".ln();
__out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
__dl();
if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation,
"com.google.errorprone.annotations.CanIgnoreReturnValue")))
{
$(__, v.names.setBuilder());
$__out("\n");
$(__, v.atNullability());
$__out("\n");
$(__, v.getAttributeBuilderDescriptor().getQualifiedBuilderTypeName());
$__out("\n");
$(__, v.name());
$__out("\n");
$__out("\n");
$__out("\n");
$(__, checkNotIsSet, v);
__ln();
__out(" this.");
$(__, v.name());
$__out(" = ");
$(__, v.name());
$__out(";\n").ln();
$__out("\n");
$(__, nondefaultSetInBuilder, v);
__ln();
$__out("\n");
$(__, mandatorySetInBuilder, v);
__ln();
$__out(" return");
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);
__dl();
if ($if(type_builderReturnThis_1267082624.typeBuilder().isExtending)) {
  __dl();__out("\n");
  $(__, type_builderReturnThis_1267082624.typeBuilder());
  __out("\n");
}
__dl();__out("this");
__dl();__out("\n");
__out(";\n").ln();
__out(" }\n").ln();
__out("\n");
}
__dl();__ln();
__out("\n");
}
__dl();__ln();
__out("\n");
__dl();_it2.index++; _it2.first = false;
}}
__dl(); __ln();
__dl();
if ($if(type.isGenerateClearBuilder())) {
  __dl(); __ln();
  __ln();
  __out(" /**").ln();
  __out("   * Clear the builder to the initial state.").ln();
  __out("   * @return [ @code this] builder for use in a chained invocation").ln();
  __out("   */").ln();
  __out("   ");
  final org.immutables.value.processor.meta.HasStyleInfo s_atCanIgnoreReturnValue_1431153190 = $cast(type);
  __dl();
  if ($if($(s_atCanIgnoreReturnValue_1431153190, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue"))) {
    __dl(); __out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");
  }
  __dl();
} __ln();
__out(" public ");
final org.immutables.value.processor.meta.ValueType type_builderReturnType_1031721330 = $cast(type);
__dl();
if ($if(type_builderReturnType_1031721330.getInnerBuilder().isExtending)) {
  __dl(); $(__, type_builderReturnType_1031721330.typeBuilder());
} else {
  __dl(); $(__, type_builderReturnType_1031721330.typeBuilder().simple());
  $(___.type_builderReturnType_1031721330.generics().args());
}
__dl();
__out(" ");
$(___.type.names().clear());
__out("() { ").ln();
__out("  ");
final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.LongBits.LongSet l : $in(positions.longs())) {
  __dl(); __ln();
  __out(" ");
  $(___.disambiguateField. type, "initBits");
  $(___.emptyIfZero, l.index);
  __out(" = ");
  $(___.literal.hex, l.occupation);
  __out(";");
  __out(" ");
}
{final org.immutables.value.processor.meta.ValueType type_builderReturnThis_1267082624 = $cast(type);  
__dl();__out("    return ");  
if ($if(type_builderReturnThis_1267082624.getInnerBuilder().isExtending)) {  
__dl();__out("()");  
$___.type_builderReturnThis_1267082624.typeBuilder();  
__out(" ");}  
__dl();__out("this");  
}  
__out(";").ln();  
__out(" } ").ln();  
}  
__dl();__ln();  
__ln();  
__out(" /**").ln();  
__out(" ");  
__dl();  
if ($if(type.kind().isFactory())) {  
__dl();__ln();  
__out(" * Invokes { @code ");  
$__.factoryOf().ln();  
__out("(...) using the collected parameters and returns the result of the invocation").ln();  
__out(" * @return A result of type { @code ");  
$__.type.typeValue().ln();  
__out(" ");} else {  
__dl();__ln();  
__out(" * Builds a new { @link ");  
$__.typeValue().relativeRaw().ln();  
__out(" ");  
$__.typeValue().simple().ln();  
__out(" .") ln();  
__out(" * @return An immutable instance of ");  
$__.name().ln();  
__ln();  
__out(" ");  
}
if (type.constitution.isSimple()) {
    __dl();$___.type.typeValue().simple();
    __dl();$___.type.generics().args();
}
else {
    __dl();$___.type.typeValue();
}
if (type.throwing) {
    __dl();___.type.names().build;
    __out("() ");
    __dl();___.type.name();
    __out(" throws ");
    __dl();
    for (final java.lang.String t : $in(type.throwing)) {
        __dl();___.type.name();
        __dl();___.type.name();
        __dl();
        __dl();
        if (not _it2.first)) {
            __dl();___.type.name();
            __dl();
        }
    }
    __dl();
    __dl();
    __dl();
    __dl();
}
else {
    __dl();___.type.name();
    __dl();
    __dl();
    __dl();
}
__out(" ");
$(__.type.names().build);
__out("() { ").ln();

}
__dl();__ln();
__out(" ");
__dl();
if ($if(positions.longs()) {
__dl();__ln();
__out(" ");
__dl();
if ($if(type.isUseCompactBuilder()) {
__dl();__ln();
__out(" if (";
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.LongBits.LongSet l : $in(positions.longs())) {
__dl();__dl();
if ($if($(not, _it2.first))) {
__dl();__out(" || ");

}
__dl();$(__.disambiguateField, type, "initBits");
$(__.emptyIfZero, l.index);
__out(" != 0");
__dl();_it2.index++;
_it2.first = false;
}
__dl();__out(" ").ln();
__out(" throw new java.lang.IllegalStateException(formatRequiredAttributesMessage());").ln();
__out(" ").ln();
__out(" ");
} else {
__dl();__ln();
__out(" checkRequiredAttributes();").ln();
__out(" ");
}
__dl();__ln();
__out(" ");

}
__dl();__ln();
__out(" ");
$(__.builderReturnValue, type);
__ln();
__out(" ").ln();
if ($if(type.isGenerateCanBuild())) {
  __out(" /**\n  * If all required attributes are set and calling {@link \n  * will return an instance and will not throw {@code \n  * @return {@code true} if all mandatory attributes are initialized\n  * @return {public boolean \n  */\n  \n  public boolean $(__, type.names().canBuild());
  __out("() {".ln();
  __out("\n  \n  __dl();
  if ($if(positions.longs())) {
    __dl();__ln();
    __out(" return \n");
    \n    {final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
    \n    for (final org.immutables.value.processor.meta.LongBits.LongSet l : $in(positions.longs())) {
      __dl();__ln();
      if ($if($not(_it2.first))) {
        __dl();__out(" && \n");
      }
      __dl();$(__, disambiguateField, type, "initBits");
      $(__, emptyIfZero, l.index);
      __out(" == 0");
      __dl();_it2.index++;  
      _it2.first = false;
    }
    __dl();__out(\\n  \n  } else {
    __dl();__ln();
    __out(" return true;\n    __out(" \n");
    __flush();
  }
}
if ($if(type.isGenerateBuildOrThrow())) {
  __dl();__ln();
  __out(" ");

if ($if($classpath.isJava8(), ornot, type.isGenerateJdkOnly())) {
  __dl();__ln();
  __ln();
  __out(" /**").ln();
  __out(" ");
  __dl();

if ($if(type.kind().isFactory())) {
  __dl();__ln();
  __out(" * Invokes {@code ");
  $(_, type.factoryOf());
  __out("(...) using the collected parameters and returns the result of the invocation").ln();
  __out(" * @param <BOT> exception type").ln();
  __out(" * @param exceptionSupplier used to create new exception from supplied error message").ln();
  __out(" * @return A result of type {@code ");
  $(_, type.typeValue());
  __out(" }").ln();
  __out(" ");
}
} else {
  __dl();__ln();
  __out(" * Builds a new {@link ");
  $(_, type.typeValue().relativeRaw());
  __out(" ");
  $(_, type.typeValue().simple());
  __out(" }").ln();
  __out(" * @param <BOT> exception type").ln();
  __out(" * @param exceptionSupplier used to create new exception from supplied error message").ln();
  __out(" * @return An immutable instance of ");
  $(_, type.name());
  __ln();
  __out(" ");
}
__dl();__ln();
__out(" * @throws BOT The supplied exception {@code BOT} if any required attributes are missing").ln();
__out(" */").ln();
__out(" public <BOT extends Exception> ");
__dl();
if ($if(type.constitution.isSimple())) {
  __dl();$(_, type.typeValue().simple());
  $(_, type.generics().args());
}
} else {
    __dl();__$_. type.typeValue();

}
__dl();__$_. out(" ");
$(__, type.names().buildOrThrow());
__out("(");
{__dl();
    if ($if(classpath.isJava8())) {
        __dl();__$_. out("java.util.function.Function");
    } else {
        __dl();__$_. guava;
        __out(".base.Function");
    }
    __dl();
}
__dl();
__out("<String, BOT> exceptionSupplier")_.ln();
__out(" throws BOT");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final java.lang.String t : $in(type.throwing)) {
    __dl();__$_. out(", ");
    $(__, t);
    __dl();_it2.index++;
    _it2.first = false;
}
__dl();__$_. out(" ").ln();
__out(" ");
__dl();
if ($if(positions.longs())) {
    __dl();__$_.ln();
    __out(" checkRequiredAttributesOrThrow(exceptionSupplier); ").ln();
    __out(" ");

}
__dl();__$_.ln();
__out(" ");
$(__, builderReturnValue, type);
__ln();
__out(" ").ln();
__out(" ");

}
```java
final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute p : $in(nondefaults)) {
    final org.immutables.value.processor.meta.LongBits.BitPosition pos = $cast($in(nondefaultsPositions, p));
    $(_).p.names.isSet();
    $(_).ln();
    $(_).out("private boolean ");
    $(_).disambiguateField, type, "optBits");
    $(_).emptyIfZero, pos.index);
    $(_).out(" & OPT_BIT_");
    $(_).toConstant, p.name();
    $(_).dl();
    _it2.first = false;
}

if ($if(!$not, type.isUseCompactBuilder())$) {
    final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute m : $in(mandatories)) {
        final org.immutables.value.processor.meta.LongBits.BitPosition pos = $cast($in(positions, m));
        $(_).m.names.isSet();
        $(_).ln();
        $(_).out("private boolean ");
        $(_).disambiguateField, type, "initBits");
        $(_).emptyIfZero, pos.index);
        $(_).out(" & INIT_BIT_");
        $(_).toConstant, m.name();
        $(_).ln();
        $(_).out(" == 0;"),ln();
        $(_).ln();
        $(_).dl();
        _it2.first = false;
    }
}
```
if ($if(type.isUseStrictBuilder(), and, $nondefaultsPositions.longs(), or, positions.longs())) {
    __.dl();__.ln();
    __.ln();
    __.out(" private static void checkNotIsSet(boolean isSet, String name) {").ln();
    __.out("    if (isSet) throw new java.lang.IllegalStateException(".concat(type.name());
    __.out("Builder of ");
    $(__, type.name());
    __.out(" is strict, attribute is already set: ".concat(name));
    __.ln();
    __.out(" }").ln();
    __.out(" ");
}
    __.dl();__.ln();
    __.ln();
    if ($if(positions.longs())) {
        __.dl();__.ln();
        __.ln();
        __.out(" private void checkRequiredAttributes() {").ln();
        __.out("    ");
        $(__, checkRequiredOrThrow, type, positions, $$false);
        __.ln();
        __.out(" }").ln();
        __.out(" ");
        __.dl();
    }
    if ($if(type.isGenerateBuildOrThrow())) {
        __.dl();__.ln();
        __.ln();
        __.out(" private <T extends Exception> void checkRequiredAttributesOrThrow(");
        __.dl();
        if ($if(classpath.isJava8(), ornot, type.isGenerateJdkOnly())) {
            __.dl();__.ln();
            __.ln();
            __.out("    <T extends Exception> void checkRequiredAttributesOrThrow(String, Function<T> exceptionSupplier) throws T {".ln();
            __.out("    ");
            $(__, checkRequiredOrThrow, type, positions, $$true);
            __.ln();
            __.out(" }").ln();
        } else {
            __.dl();$(__, guava);
            __.out("base.Function");
        }
        __.dl();
    }
    __.out("<String, T> exceptionSupplier) throws T {".ln();
    __.out(" ");
    $(__, checkRequiredOrThrow, type, positions, $$true);
    __.ln();
    __.out(" }").ln();
private String missingRequiredAttributesNames() {
    String attributes = new String[
        mandatories.size()];
    final org.immutables.value.processor.meta.HasStyleInfo s_atVar_1287436599 = $cast(type);
    if ($if($(s_atVar_1287436599, allowsClasspathAnnotation, "com.google.errorprone.annotations.Var"))) {
        __out("@com.google.errorprone.annotations.Var ");
    }
    __out("int c = 0;");
    __out(" ");
    if ($if(type.isUseCompactBuilder())) {
        __dl();
    }
    __out("\n");
org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute m : $in(mandatories)) {
    final org.immutables.value.processor.meta.LongBits.BitPosition pos = $cast($positions, m);
    __.dl();___.ln();
    __.out("    if (");
    $(__, disambiguateField, type, "initBits");
    $(__, emptyIfZero, pos.index);
    __.out(" & INIT_BIT_");
    $(__, toConstant, m.name());
    __.out(") != 0) attributes");
    $(__, "[");
    __.out("(\n") ;
    __.out("c++");
    $(__, "]);
    __.out(" = \n");
    $(__, m.names.raw);
    __.out(";\".ln();
    __.out("  ");
    __.dl();_it2.index++;
    _it2.first = false;
} }
___.dl();___.ln();
__.out(" ");

} else {
    __.dl();___.ln();
    __.out(" ");
    [final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute m : $in(mandatories)) {
    __.dl();___.ln();
    __.out(" if (\";
    $(__, m.names.isSet());
    __.out(") attributes");
    $(__, "[");
    __.out("(c++");
    $(__, "]");
    __.out(" = \n");
    $(__, m.names.raw);
    __.out(";\".ln();
    __.out("  ");
    __.dl();_it2.index++;
    _it2.first = false;
} }
___.dl();___.ln();
__.out(" ");
if ($if($(type.isGenerateBuildOrThrow(), ornot, type.getThrowForInvalidImmutableState().hasAttributeNamesConstructor))) {
    __.dl();__.ln();
    $.ln();
    __.out(" private String formatRequiredAttributesMessage() { ").ln();
    __.out("    java.util.List<String> attributes = new java.util.ArrayList<");
    $(__, asDiamond, ", String")
    __.out("();").ln();
    __.out("    ");
    __.dl();
    if ($if(type.isUseCompactBuilder())) {
        __.dl();__.ln();
        __.ln();
        __.out("      final org.immutables.generator.Templates.Iteration _it2 = new ");
        org.immutables.generator.Templates.Iteration();
        for (final org.immutables.value.processor.meta.ValueAttribute m : $in(mandatories)) {
            final org.immutables.value.processor.meta.LongBits.BitPosition pos = $cast($in(positions, m));
            __.dl();__.ln();
            __.ln();
            __.out("      if (";
            $(__, disambiguateField, ", initBits")
            $(__, emptyIfZero, pos.index);
            __.out(" & INIT_BIT_";
            $(__, toConstant, m.name());
            __.out(") != 0) attributes.add(";
            $(__, m.names.raw);
            __.out("\";\").ln();
            __.out(" ");
            __.dl();_it2.index++;
            _it2.first = false;
        }
        __.dl();__.ln();
        __.out(" ");
    } else {
        __.dl();__.ln();
        __.out(" ");
        {final org.immutables.generator.Templates.Iteration _it2 = new 
        org.immutables.generator.Templates.Iteration();
    }
}
for (final org.immutables.value.processor.meta.ValueAttribute m : $in(mandatories)) {
    __dl();__ln();
    __out("  if (!");
    $__().m.names.isSet();
    __out("()") attributes.add("\n");
    $__().m.names.raw;  
    __out("\n");__ln();
    __out(" ");
    __dl();_it2.index++;  
    _it2.first = false;  
}
__dl();__ln();
__out(" ");

__dl();__ln();
__out(" return "Cannot build ");
$__().type.name();
__out(" some of required attributes are not set " + attributes;").ln();
__out(" ");__ln();
__out(" ");

__dl();__ln();
__out(" ");
$__().rr.builderHelperMethods(), setters);  
__ln();__dli();  
if ($if(type.constitution.hasImmutableInBuilder())) {
    __dl();__ln();
    __out(" ");
    $__().generateImmutable, type, $$false);  
    __ln();__dli();  
    if ($if(type.isGenerateWithInterface())) {
        __dl();__ln();
        __out(" ");
        $__().generateWithInterface, type, $$false);  
        __ln();__dli();
    }
}
__dl();__ln();
__dl();__ln();
if ($if(topLevel)) {
__dl();__ln();
__out(" ");
$__(objectsUtility, type);
__ln();
}
__dl();__ln();
__dl();
if ($if($($(topLevel, and, $(type.isGenerateJdkOnly(), and, type.isUseCollectionUtility()))))) {
__dl();__ln();
__out(" ");
$__collectionUtility, type);
__ln();
}
__dl();__ln();
__dl();
if ($if(type.detectAttributeBuilders())) {
__dl();__ln();
__out(" ");
$__attributeBuilderTransformUtilities, type);
__ln();
}
__dl();__ln();
__out(" ").ln();
__dl();
if ($if($($(type.getTelescopicBuild(), andnot, topLevel)))) {
__dl();__ln();
$__generateTelescopicBuilderInterfaces, type);
__ln();
}
__dl();__ln();
__dl();__ln();
__dl();
__dl();
__dl();__ln();
__dl();
__dl();
__dl();
__dl();
__dl();

org.immutables.generator.Templates.Invokable builderReturnValue() { return builderReturnValue; }
private final org.immutables.generator.Templates.Invokable builderReturnValue = new FragmentDispatch(1, 19);
void _t19__builderReturnValue(org.immutables.generator.Templates.Invokation __) {
    __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    __ln();
    __dl();
    if ($if(type.kind().isFactory())) {
        __dl();__ln();
        $(__, returnFactoryBuild, type);
        __ln();
    } else if ($if($if(type.isUseSingleton(), andnot, type.getSettableAttributes()))) {
        __dl();__ln();
        __out("return ");
        $(__, type.factoryInstance().relative());
        __out("();").ln();
    } else if ($if(type.isGenerateBuilderUseCopyConstructor())) {
        __dl();__ln();
        $(__, generateReturnBuilderConstructed, type);
        __ln();
    } else {
        __dl();__ln();
        __out("return ");
    }
}

@Override public void run(org.immutables.generator.Templates.Invokation __) {
    __dl();final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = new
    org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __dl();final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = this;
            __out("new ");
            $(__, type.typeImmutable().relative());
            __out("(this)");
            __dl();
        });__dl();__dl();
    if ($if(type_validated_1881291508.isUseValidation())) {
        __dl();__dl();
        if ($if(qualified_validated_1881291508)) {
            __dl();$(__, type_validated_1881291508.typeImmutable().relativeRaw());
            __out(".");
        }
        __dl();__out("validate("");
        $(__, expression_validated_1881291508);
        __out(")");
    } else {
        __dl();$(__, expression_validated_1881291508);
    }
}
org.immutables.generator.Templates.Invokable checkRequiredOrThrow() { return checkRequiredOrThrow; }
private final org.immutables.generator.Templates.Invokable checkRequiredOrThrow = new FragmentDispatch(3,
20);
void _t20__checkRequiredOrThrow(org.immutables.generator.Templates.Invocation __) {
  __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
final org.immutables.value.processor.meta.LongBits.LongPositions positions = $cast(__.param(1));
final java.lang.Boolean useSupplier = $if(__.param(2));
  __.ln();
  __.out("if (";
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.LongBits.LongSet l : $in(positions.longs())) {
  __.dl();__.dl();__.dl();__.dl();
  if ($if($(not, _it1.first))) {
    __.dl();__.dl();$(__, disambiguateField, type, "initBits");
    $(___.emptyIfZero, l.index);
    __.out(" != 0");
    __.dl();_it1.index++; _it1.first = false;
  }
  __.dl();__.out(" || ");
}
  __.dl();$(__, disambiguateField, type, "initBits");
  $(___.emptyIfZero, l.index);
  __.out(" != 0");
  __.dl();_it1.index++; _it1.first = false;
}
  __.out(")");
if ($if(useSupplier)) {
  __.dl();__.ln();
  __.out(" throw exceptionSupplier.apply(formatRequiredAttributesMessage());");
  __.out(" ");
} else if (Sif(type.getThrowForInvalidImmutableState().hasAttributeNamesConstructor)) {
  __.dl();__.ln();
  __.out(" throw new ");
  $(___.type.getThrowForInvalidImmutableState());
  __.out("(missingRequiredAttributesNames());");
  __.out(" ");
}
else {
  __.dl();__.ln();
  __.out(" throw new ");
  $(___.type.getThrowForInvalidImmutableState());
org.immutables.generator.Templates.Invokable buildFromAttributeNullableSupertype() { return buildFromAttributeNullableSupertype; }

private final org.immutables.generator.Templates.Invokable buildFromAttributeNullableSupertype = new FragmentDispatch(1, 21);
void _t21__buildFromAttributeNullableSupertype(org.immutables.generator.Templates.Invokation __) {
  __dl();__ln();
  __out(""").ln();
  __dl();
}

}
$(__, v.names.addAll());
$__out("(");
$__out("Value;").ln();
$__out(")").ln();
} else if ($if(v.isMapType())) {
  __dl();__ln();
__out("(");
v.atNullableInSupertypeLocal();
v.getType();
__out(" ");
v.name();
__out("Value = instance.");
v.names.get;
__out(";").ln();
__out(" ");
v.name();
__out(" != null) {".ln();
__out(" ");
v.names.putAll();
__out(" ");
v.name();
__out("Value;").ln();
__out(" ");
} else if ($if(v.isOptionalType())) {
  __dl();__ln();
__atNullableInSupertypeLocal();
v.get();
__out(" ");
v.name();
__out("Value = instance.");
v.names.get;
__out(";").ln();
__out(" ");
v.name();
__out(" != null && ");
v.name();
__out("Value.");
} final org.immutables.value.processor.meta.ValueAttribute a_optionalPresent_767352996 = $cast(v);
__dl();
if ($if($(a_optionalPresent_767352996.isFugueOptional(), or,
a_optionalPresent_767352996.isJavaslangOptional()))) {
  __dl();__out("isDefined");
} else {
  __dl();__out("isPresent");
}
__dl();__out(";");
function buildFromAttribute() {
  return buildFromAttribute;
}

private final org.immutables.generator.Templates.Invokable buildFromAttribute = new FragmentDispatch(1, 22);

void _t22__buildFromAttribute(org.immutables.generator.Templates.Invokation __) {
  final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
  __out(" ");
  if ($if(v.isEncoding())) {
    __dl__();
    $(__, rr.builderCopyFrom(), v);
    __out("instance.");
    $(__, v.names.get);
    __out("();");
    __out("if ( ");
    $(__, v.name());
    __out("Value != null) ");
    __out(" ");
    $(__, v.names.init);
    __out("(");
    $(__, v.name());
    __out("Value = instance.");
    $(__, v.names.get);
    __out("();");
    __out("if ( ");
    $(__, v.name());
    __out("Value != null) ");
    __out(" ");
    $(__, v.names.init);
    __out("(");
    $(__, v.name());
    __out("Value = instance.");
    $(__, v.names.get);
    __out("());
  } else {
    __dl__();
    $(__, v.getAttribute());
    __out(" ");
    $(__, v.getType());
    __out(" ");
    $(__, v.name());
    __out("Value = instance.");
    $(__, v.names.get);
    __out("();");
    __out("if ( ");
    $(__, v.name());
    __out("Value != null) ");
    __out(" ");
    $(__, v.names.init);
    __out("(");
    $(__, v.name());
    __out("Value = instance.");
    $(__, v.names.get);
    __out("());
  }
}

org.immutables.generator.Templates.Invokable buildFromAttribute() { return buildFromAttribute; }

if (Value != null) {
  names.putAll((Value);
} else {
  names.putAll();
  instance.
  ();
} else if ($if(v.isOptionalType())) {
  getType();
  Optional = instance.
  ();
  if (Optional.
  {final org.immutables.value.processor.meta.ValueAttribute a_optionalPresent_767352996 = $cast(v);
    if ($if($(a_optionalPresent_767352996.isFugueOptional(), or,
    a_optionalPresent_767352996.isJavaslangOptional()))) {
      isDefined
    } else {
      isPresent
    }
  } else {
    isPresent
  }
}
$(__, v.names.init);
__out("(");
$__ out("Optional;").ln();
__out("" ).ln();
__out(" " );
} else if ($if(v.isNullable()) {
  __dl();__ln();
$__ out("Value = instance.");
$(__, v.names.get);
__out(";").ln();
__out("if ("");
$__ v.name();
__out("Value != null \{").
__out(" ");
$__ v.names.init);
__out("(");
$__ v.name();
__out("Value;".
__out("")
__out(" ");

}) else {
  __dl();__ln();
$__ v.names.init);
__out("instance.");
$__ v.names.get);
__out("();".
__out(" ");

}
__dl();__ln();
__dl();

org.immutables.generator.Templates.Invokable returnFactoryBuild() { return returnFactoryBuild; }
private final org.immutables.generator.Templates.Invokable returnFactoryBuild = new FragmentDispatch(1, 23);
void _t23__returnFactoryBuild(org.immutables.generator.Templates.Invocation __) {
  __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__param(0));
  __ln();
__out("return ");
$__ type.factoryOf());
__out("(");
$__ output.linesShortable, new org.immutables.generator.Templates.Fragment(0) {

@Override public void run(org.immutables.generator.Templates.Invokation ___) {
    ___dl(); {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();

    for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())) {
        ___dl(); ___dl();
        if ($(not, _it1.first)) {
            ___dl(); ___dl();
            if ($if(v.isGuavaImmutableDeclared())) {
                ___dl(); ___dl();
                if ($if(v.isNullable())) {
                    ___dl(); ___dl();
                    __(__, requireNonNull, v.containingType); ___dl();
                    ___dl(); ___dl();
                    ___dl(); ___dl();
                    ___dl(); ___dl();
                } else {
                    ___dl();
                }
            } else {
                ___dl(); ___dl();
                ___dl(); ___dl();
                ___dl(); ___dl();
            }
        } else {
            ___dl();
        }
    }

    org.immutables.generator.Templates.Invokable valueFromSuper() { return valueFromSuper; }
}
private final org.immutables.generator.Templates.Invokable valueFromSuper = new FragmentDispatch(2, 24);
void _t24__valueFromSuper(org.immutables.generator.Templates.Invokation ___) {
    ___dl(); final org.immutables.value.processor.meta.ValueAttribute v = $cast(___param(0));
    final java.lang.String expression = ___param(1).toString();
    ___dl();
    if ($(v.isGuavaImmutableDeclared())) {
        ___dl(); ___dl();
        if ($(v.isNullable())) {
            ___dl(); ___dl();
            ___dl(); ___dl();
            ___dl(); ___dl();
            ___dl(); ___dl();
            ___dl(); ___dl();
            ___dl(); ___dl();
        } else {
            ___dl();
        }
    } else {
        ___dl(); ___dl();
    }
}
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$(__, n.getQualifiedValueToBuilderMethod());
  __out("()");

} else {
  __dl();$(__, n.getQualifiedValueToBuilderMethod());
  __out("(");
  ${__, expression};
  __out(")");

}
__dl();__dl();
;

org.immutables.generator.Templates.Invokable valueFrom() { return valueFrom; }
private final org.immutables.generator.Templates.Invokable valueFrom = new FragmentDispatch(4, 27);
void _t27__valueFrom(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(1));
  final java.lang.String expression = __.param(2).toString();
  final java.lang.Boolean withoutOptional = $if(__.param(3));
  ${__, output.trim, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dl();__ln();
      __out(" ");
      __dl();
      if ($if(withoutOptional)) {
        __dl();__ln();
        __out(" ");
        ${__, valueFromValueNoOptional, type, v, expression};
        __ln();
        __out(" ");
      } else {
        __dl();__ln();
        __out(" ");
        ${__, valueFromValue, v, expression};
        __ln();
        __out(" ");
      }
    }
  }});
__dl();
;

org.immutables.generator.Templates.Invokable valueFromValue() { return valueFromValue; }
private final org.immutables.generator.Templates.Invokable valueFromValue = new FragmentDispatch(2, 28);
void _t28__valueFromValue(org.immutables.generator.Templates.Invokation __) {
  __.dl();final org.immutables.value.processor.meta.ValueAttribute v = __.param(0);
  final java.lang.String expression = __.param(1).toString();
  $(__, output.trim, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __.dl();___.ln();
      if ($if(v.isEncoding())) {
        __.dl();___.ln();
        ___.out("  ");$
        __.rr.from(), v, expression);
        ___.ln();
      } else if ($if(v.isJdkOptional())) {
        __.dl();___.ln();
        ___.out("  ");
        if ($if(v.isJdkSpecializedOptional())) {
          __.dl();$
          ___.out(" .isPresent() ? ");$
          __.toString();
          __.out(" .getAs");$
          __.toUpper, v.getUnwrappedElementType());
          __.ln();
        } else {
          __.dl();$
          __.maybeCopyOf, v, new org.immutables.generator.Templates.Fragment(0) {
            @Override public void run(org.immutables.generator.Templates.Invokation __) {
              __.dl();$
              ___.out(" .orElse(null)");
              ___.ln();
            }});
          __.ln();
        }
      }
    }
  });
  __.dl();___.ln();
  if ($if(v.isArrayType())) {
    __.dl();$
    __.out(" (");
    __.dl();
  }
  if ($if($v.getConsumedElementType(), ne, v.getWrappedElementType())) {
    __.dl();___.out("(");$
    __.getType();
    __.out(" )");
  }
  __.dl();$
  __.maybeCopyOf, v, expression);
  __.ln();
  } else if ($if(v.isArrayType())) {
    __.dl();___.ln();
  }
}

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if ($if(v.isNullable())) {
  __.dl();$___.expression;
} else {
  __.dl();$___.expression;
  __.out("clone()");
}
___.ln();
}
} else if ($if(v.isAttributeValueKindCopy())) {
  __.dl();___.ln();
  __.out(" ");
  __.dl();
  if ($if(v.isNullable())) {
    __.dl();$___.expression;
    __.out(" == null ? null : ");
  }
  __.dl();$___.deepCopyOf, v, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __.dl();$___.expression;
      __.dl();
    }
  });
  __.ln();
}
else if ($if(v.isCollectionType(), or, v.isMapType())) {
  __.dl();___.ln();
  __.out(" ");
  __.dl();
  if ($if(v.isNullable())) {
    __.dl();$___.expression;
    __.out(" == null ? null : ");
  }
  __.dl();$___.immutableCollectionCopyOf, v, expression;
  __.ln();
}
else {
  __.dl();___.ln();
  __.out(" ");
 ().__.maybeCopyOf, v, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __.dl();$___.maybeNonNullValue, v, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
          __.dl();$___.expression;
          __.dl();
        }
      });
  });
org.immutables.generator.Templates.Invokable valueFromValueNoOptional() { return valueFromValueNoOptional;
}
private final org.immutables.generator.Templates.Invokable valueFromValueNoOptional = new FragmentDispatch(3, 29);
void _t29__valueFromValueNoOptional(org.immutables.generator.Templates.Invokation __) {
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(1));
  final java.lang.String expression = __.param(2).toString();
  $(__, output.trim, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      if ($if(v.isEncoding())) {
        $.out("  ");
        $(__, valueFromValue, v, expression);
      } else if ($if($if(v.isJdkOptional(), and, $if(v.isJdkSpecializedOptional(), or, v.isOptionalAcceptNullable())))) {
        $.out("  ");
        $(__, maybeCopyOf, v, new org.immutables.generator.Templates.Fragment(0) {
          @Override public void run(org.immutables.generator.Templates.Invokation __) {
            $(__, expression);
          }
        });
      }
    }
  });
  $.out("  ");
  $(__, maybeCopyOf, v, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      $(__, expression);
    }
  });
} });
  $.out("  ");
  $(__, requireNonNull, type);
  $.out("(");
  $(__, expression);
  $.out(" , ");
  $(__, expression);
  $.out(" )");
if (v.isNullable()) {
    __.dl();__.ln();
    __.out("  ");
$(__, expressionPrefix);
$(__, v.name());
___.out("  = null ? null : ");
$(__, immutableCollectionBuild, v, $(expressionPrefix, v.name()));
___.ln();
} else if ($(v.isNullableCollector(), and, mayBeNull)) {
    __.dl();__.ln();
    __.out("  ");
$(__, expressionPrefix);
$(__, v.name());
___.out("  = null?");
$(__, emptyImmutableInstance, v, v.getGenericArgs());
___.out(" : ");
$(__, immutableCollectionBuild, v, $(expressionPrefix, v.name()));
___.ln();
} else {
    __.dl();__.ln();
    __.out("  ");
$(__, immutableCollectionBuild, v, $(expressionPrefix, v.name()));
___.ln();
}

} else if (v.isAttributeBuilder()) {
    __.dl();__.ln();
    __.out("  ");
$(__, convertToValueType, v.getAttributeBuilderDescriptor());
___.out("(");
$(__, expressionPrefix);
$(__, v.name());
___.out(")").ln();
}

} else {
    __.dl();__.ln();
    __.out("  ");
$(__, expressionPrefix);
$(__, v.name());
___.ln();
}
__.out("    ");
}

} else {
  __dl();__ln();
  __out("    java.util.Collections.");
$(__, genericArgsOrEmpty);
  __out("emptyMap()").ln();
  __out("    ");
}

} __dl();__ln();
__out("    ");

} else {
  __dl();__ln();
  __out("    ");
$(__, guava);
  __out("collect.Immutable");
$(__, v.getRawMapType());
  __out(".");
$(__, genericArgsOrEmpty);
  __out("of()").ln();
  __out("    ");
}

} __dl();__ln();
} else if ($if(v.isCollectionType())) {
  __dl();__ln();
  __out("    ");
  __dl();
if ($if(v.isGenerateOrdinalValueSet())) {
    org.immutables.ordinal.ImmutableOrdinalSet.
$(__, genericArgsOrEmpty);
    __out("of()").ln();
    __out("    ");
} else if ($if(v.isGenerateJdkOnly())) {
  __dl();__ln();
  __out("    ");
  __dl();
if ($if(v.typeKind().isSortedSet())) {
  __dl();__ln();
  __out("    ");
$(__, immutableCollectionCopyOfSafe, v, $$false, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dl();__out("java.util.Collections.");
$(__, v.getGenericArgs());
      __out("emptyList()");
  }});
    if (!($if(v.isCustomCollectionType())))
        __.dl();__.ln();
        __.out("
    java.util.Collections.");
        $___.genericArgsOrEmpty;
        __.out("empty");
        $___.v.getRawCollectionType();
        __.out("()").ln();
        __.out(" ");

    __.dl();__.ln();
    __.out(" ");
} else if ($if(v.isCustomCollectionType())) {
    __.dl();__.ln();
    __.out(" ");
    $___.v.getRawType();
    __.out(".");
    $___.genericArgsOrEmpty;
    __.out("of()").ln();
    __.out(" ");

} else {
    __.dl();__.ln();
    __.out(" ");
    $___.guava;
    __.collect.Immutable;
    $___.v.getRawCollectionType();
    __.out(".");
    $___.genericArgsOrEmpty;
    __.out("of()").ln();
    __.out(" ");

} else {
    __.dl();__.ln();
    __.out(" null").ln();
    __.out(" ");
    __.output.error, v.originalTypeElement(), new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __.dl();__.ln();
            __.out(" Could not generate constructor for ");
$(__, v.containingType.typeImmutable().relativeRaw());
  __out(". Attribute ");
$(__, v.name());
  __out("\n");
  __dl();
});
  __ln();
}
__dl();
__ln();
__dl();
}
__dl();
__ln();
__dl();

org.immutables.generator.Templates.Invokable generateConstructorNoAttributes() { return
  generateConstructorNoAttributes; }
private final org.immutables.generator.Templates.Invokable generateConstructorNoAttributes = new
  FragmentDispatch(2, 34);
void _t34__generateConstructorNoAttributes(org.immutables.generator.Templates.Invokation __) {__dl();
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final java.lang.Iterable<org.immutables.value.processor.meta.ValueAttribute> attributes = $cast(__.param(1));
  __ln();
  {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
   for (final org.immutables.value.processor.meta.ValueAttribute v : $in(attributes)) {
     final java.lang.String n = $cast(v.name());
     __dl();
     __ln();
     if ($if(v.isEncoding())) {
       __dl();
       $(__, rr.unitializedFieldValue(), v);
       __ln();
     } else if ($if(v.isPrimitive())) {
       __dl();__ln();
       __out(" ");
       __dl();
       if ($if(v.isBoolean())) {
         __dl();__ln();
         __out("this.");
         $(__, n);
         __out(" = false;\n");
       } else {
         __dl();__ln();
         __out("this.");
         $(__, n);
       }
   }
  }
}
__out(" = 0;").ln();
__out(" ");
}
__dl();__ln();
}

} else {
__dl();__ln();
__out("this.");
$(__, n);
__out(" = null;").ln();
}
__dl();__ln();
__dl();_it1.index++;
_it1.first = false;
}
__dl();__ln();
__dl();
}

org.immutables.generator.Templates.Invokable generateConstructorDefaultAttributes() { return
generateConstructorDefaultAttributes; }
private final org.immutables.generator.Templates.Invokable generateConstructorDefaultAttributes = new
FragmentDispatch(2, 35);
void _t35__generateConstructorDefaultAttributes(org.immutables.generator.Templates.Invokation __) {
__dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
final java.lang.Iterable<org.immutables.value.processor.meta.ValueAttribute> attributes = $cast(__.param(1));
__ln();
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(attributes)) {
if ($if($(not, $(v.isGenerateDefault, or, v.isGenerateDerived)))) {
final java.lang.String n = $cast(v.name());
__dl();__ln();
__dl();
if ($if(v.hasVirtualImpl())) {
__dl();$(__, rr.virtualImpl(), v);
}
} else {
__dl();__out("this.");
$(__, n);
}
__dl();__out(" = ");
$(__, emptyImmutableInstance, v, "");
__out(";").ln();
__dl();_it1.index++;
_it1.first = false;
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```java
private final org.immutables.generator.Templates.Invokable generateImmutableMembers = new FragmentDispatch(1, 36); void _t36__generateImmutableMembers(org.immutables.generator.Templates.Invokation __) {
    __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    __ln();
}

org.immutables.generator.Templates.Invokable generateImmutableMembers() { return generateImmutableMembers;
}
```
getters = $cast(type.getImplementedAttributes());

{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(getters)) {

  __.dl();___.ln();
  __.out(" ");
  __.dl();
  if ($if(v.isEncoding())) {
    __.dl();___.ln();
    __.out(" ");
    $(__, rr.declareFields(), v);
    __.ln();
    __.out(" ");
  } else {
    __.dl();___.ln();
    __.out(" ");
  }
  __.dl();___.ln();
  __.out(" ");
  __.ln();
  __.out(" ");
  __.dl();___.ln();
  __.out(" ");
  $(__, anj);
  __.ln();
  __.out(" ");
  __.dl();___.ln();
  __.ln();
  __.out(" ");
  __.dl();___.ln();
  __.ln();
}
}
___.dl();___.ln();
___.out(" ");

{final org.immutables.value.processor.meta.ValueType type_jsonIgnore_782971179 = $cast(type);

if ($if(type_jsonIgnore_782971179.isGenerateJacksonIngoreFields())) {

  __.dl();___.out("@com.fasternxml.jackson.annotation.JsonIgnore");

}
___.dl();
___.ln();
___.out(" private ");
___.dl();
if ($if(v.isGenerateTransientDerived())) {

  __.dl();___.out("transient ");

}
___.dl();___.out("final ");
$(__, v.atanullability());
$(__, immutableImplementationType, v);
__out(" ");
$(__, v.name());
__out(": ").ln();
__out(" ");
}
__dl();__ln();
__dl();__it2.index++;
__it2.first = false;
}
__dl();__ln();
__dl();
if ($if(type.isCacheHash())) {
__dl();__ln();
__out(" ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final java.lang.String anj : $in(type.syntheticFieldsInjectedAnnotations())) {
__dl();__ln();
__out(" ");
$(__, anj);
__ln();
__out(" ");
__dl();__it2.index++;
__it2.first = false;
}
__dl();__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueType type_jsonIgnore_782971179 = $cast(type);
__dl();
if ($if(type_jsonIgnore_782971179.isGenerateJacksonIngoreFields())) {
__dl();__out(" @com.fasterxml.jackson.annotation.JsonIgnore");
}
__dl();
__ln();
__out(" ");
__dl();
if ($if(type.isUseLazyhash())) {
__dl();{final org.immutables.value.processor.meta.ValueType type_hiddenMutableState_1091893888 = $cast(type);
__dl();
if ($if(type_hiddenMutableState_1091893888, allowsClasspathAnnotation,
"com.google.errorprone.annotations.Immutable")) {
__dl();__out(" @SuppressWarnings("Immutable")");
}
_it2.first = false;
}
__dl();__ln();
__out("  private final int ordinal;").ln();
__out("  ");
{final org.immutables.value.processor.meta.ValueType type_jsonIgnore_782971179 = $cast(type);
__dl();
if ($if(type_jsonIgnore_782971179.isGenerateJacksonIngoreFields())) {
  __dl();__out("@com.fasterxml.jackson.annotation.JsonIgnore");
}
__dl();
}
__ln();
__out("  ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final java.lang.String anj : $in(type.syntheticFieldsInjectedAnnotations())) {
  __dl();__ln();
  __out("  ");
  $(__, anj);
  __ln();
  __out("  ");
  __dl();_it2.index++;
  _it2.first = false;
}
__dl();__ln();
__out("  private final Domain domain;");.ln();
}
__dl();__ln();
__dl();
if ($if(type.isUseSingleton())) {
  __dl();__ln();
  __ln();
  __out("  private ");
  $(__, type.typeImmutable().simple());
  __out(" ()");
  $(__, output.collapsible, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dl();__ln();
      __out(" ");
      $(__, generateConstructorDefaultAttributes, type, type.getImplementedAttributes());
      __ln();
      __out(" ");
      $(__, generateDerivedConstruction, type, noAttributes);  
      __ln();
      __out(" ");
      $(__, generateAfterConstruction, type, $$false);
private

(final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(getters)) {
    if ($if($(not, $(v.isGenerateDerived, or, v.isGenerateDefault)))) {
        final java.lang.String n = $cast(v.name());

        if ($if(v.hasVirtualImpl())) {
            final org.immutables.value.processor.meta.ValueAttribute v_valueFromBuilder_507842697 = $cast(v);
            final org.immutables.generator.Templates.Invokable expressionPrefix_valueFromBuilder_507842697 = new
            org.immutables.generator.Templates.Fragment(0) {
                @Override public void run(org.immutables.generator.Templates.Invokation __) {
                    __dl();final org.immutables.generator.Templates.Invokable expressionPrefix_valueFromBuilder_507842697 = this;
                    __out("builder.");
                    __dl();
                }
            };
            __dl();$(__, valueFromBuilderAlt, v_valueFromBuilder_507842697, $$true,
            expressionPrefix_valueFromBuilder_507842697);
        } else {
            __dl();__ln();
            __out(" this.");
            $(__, n);
            __out(" = ");
        }
    }
}

@Override public void run(org.immutables.generator.Templates.Invokation __) {
if ($if(type.isGenerateSafeDerived())) {
  final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
  for (final org.immutables.value.processor.meta.ValueAttribute v : $in(getters)) {
    if ($if(v.isGenerateDefault)) {
      final java.lang.String n = $cast(v.name());
      if ($if(v.isEncoding())) {
        $(__, rr.wasInit(), v);
      } else if ($if(v.requiresTrackIsSet())) {
        $(__, v.names.isSet());
      } else {
        $(__, n);
      }
    }
    if ($if(v.isEncoding()) || $if(v.requiresTrackIsSet())) {
      $(__, disambiguateField, type, "initShim"); $(__, v.names.init);
    } else {
      $(__, n);
    }
  }
  $(__, valueFromBuilderAlt, v.valueFromBuilder_507842697, $true, expressionPrefix_valueFromBuilder_507842697);
  $(__, rr.wasInit(), v);
  $(__, rr.wasInit(), "initShim"), $false, "$true, expressionPrefix_valueFromBuilder_507842697);
}
@Override public void run(org.immutables.generator.Templates.Invokation __) {
  __.dl();___.out("builder.");
  __.dl();
  ___.ln();
  ___.out("; ").ln();
  ___.out(" ");
  __.dl();___.out("builder.");
  __.dl();___.out(" ;");
  __.dl();___.out(" =");
  __.dl();___.out(" != null");
  __.dl();___.ln();
}

{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
 for (final org.immutables.value.processor.meta.ValueAttribute v : $in(getters)) {
  if ($if(v.isGenerateDefault)) {
    final java.lang.String n = $cast(v.name());
    __.dl();___.ln();
    ___.out(" ");
    __.dl();
    if ($if($type.isAnnotationType(), ornot, $type.isGenerateSafeDerived()))) {
      __.dl();___.ln();
      ___.out(" this.");
      $__(_. n);
      ___.out(" = ");
      __.dl();
      if ($if($v.requiresTrackIsSet()) ) {
        __.dl();___.out("builder.");
        $__(_. v.names.isSet());
        ___.out("()" );
      } else {
        __.dl();___.out("builder.");
        $__(_. n);
        ___.out(" != null");
      }
    } else {
      __.dl();___.out("builder.");
      $__(_. n);
      ___.out(" != null");
    }
  }
  __.dl();___.ln();
  ___.out("? ");
  $__(_. valueFromBuilderAlt, v, $v.requiresTrackIsSet(), new org.immutables.generator.Templates.Fragment(0)) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __.dl();___.out("builder.");
      __.dl();
    }}
  ___.ln();
  ___.out(" :");
  __.dl();
if ($!(type.isAnnotationType())) {
  __.dl();__.out("DEFAULT_VALUE_");
$(__, toConstant, v.name());
}

} else {
  __.dl();{final org.immutables.value.processor.meta.ValueAttribute v_valueFromSuper_1184295742 = $cast(v);
    final org.immutables.generator.Templates.Invokable expression_valueFromSuper_1184295742 = new
org.immutables.generator.Templates.Fragment(0) {
      @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __.dl();final org.immutables.generator.Templates.Invokable expression_valueFromSuper_1184295742 =
this;
        $(__, invokeSuper, v);
        __.out(".");
        $(__, v.names.get);
        __.out("()"y)
        __.dl();
      } __.dl(); __.dl();
    } __.dl(); __.dl();
}

if ($!(v_valueFromSuper_1184295742.isGuavaImmutableDeclared())) {
  __.dl(); __.dl();
  if ($!(not, v_valueFromSuper_1184295742.isNullable())) {
    __.dl(); $(__, requireNonNull, v_valueFromSuper_1184295742.containingType);
    __.out("("y)
    $(__, expression_valueFromSuper_1184295742);
    __.out(",","y")
    $(__, v_valueFromSuper_1184295742.name());
    __.out("\")
    }
  } else {
    __.dl(); $(__, expression_valueFromSuper_1184295742);
    }

  __.dl();
} else {
  __.dl(); $(__, valueFromValue, v_valueFromSuper_1184295742,
expression_valueFromSuper_1184295742);
    }

  __.dl();
}

} __.dl(); __.out(";"y).ln();
 __.out(" ");

} __.dl(); __.ln();
 __.dl(); __it2.index++;
$(__, shim);
__out(".");
$(__, v.names.init);
__out("(");
$(__, n);
__out(";")ln();
__out(" ");
}

if (v.hasVirtualImpl()) {
__dl();__ln();
__out(" ");
$(__, rr.virtualImpl(), v);
__out(" = ");
$(__, n);
__out(";")ln();
__out(" ");
}

else {
__dl();__ln();
__out(" this.");
$(__, n);
__out(" = ");
$(__, n);
__out(";")ln();
__out(" ");
}

__dl();__ln();
__out(" ");
__dl();__it2.index++;
__it2.first = false;
}

__dl();__ln();
__out(" ");
$(__, generateDerivedConstruction, type, setters);
__ln();

}

else {
__dl();__dl();__ln();
__out(" ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(setters)) {
final java.lang.String n = $cast(v.name());
__dl();__ln();
__out(" this.");
$(__, n);
__out(" = ");
$(__, n);
__out(";")ln();
}
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(getters)) {
if ($if(v.isGenerateDerived)) {
final java.lang.String n = $cast(v.name());
__dl();__ln();
__out("  ");
$(__, n);
__out(" = ");
$(__, valueFromValue, v, new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
  __dl();$___.invokeSuper, v);
  __out(";");
  $___.v.names.get);
  __out("()" );
  __dl();
})
__out(";").ln();
__out(" ");
__dl();__it2.index++;__it2.first = false;
})
__dl();__ln();

}

}
__dl();__ln();
__out(" ");
$___.generateAfterConstruction, type, $$false);
__ln();
__out(" |" ).ln();

}
__dl();__ln();
__dl();
if ($if(type.isGenerateSafeDerived())) {
__dl();__ln();
__out(" ");
$___.generateSafeDerivedShim, type);
__ln();

}
__dl();__ln();
__out(" ");
generateAccessorMethods, type);
__ln();
__out(" ");
generateCopyMethods, type);
__ln();
__out(" ");
generateObjectUtilityMethods, type);
__ln();
__out(" ");
generateJacksonMapped, type);
__ln();
__dl();:it1.index++;
:it1.first = false;
}
__dl();__ln();
__dl();
}

org.immutables.generator.Templates.Invokable generateConstructor() { return generateConstructor; }
private final org.immutables.generator.Templates.Invokable generateConstructor = new FragmentDispatch(3, 37);
void t37__generateConstructor(Templates.Invokation __) {
__dl();final org.immutables.value.processor.meta.ValueType type = cast(__.param(0));
final java.lang.Boolean withoutOptional = if(__.param(1));
final org.immutables.generator.Templates.Invokable constructorAcceptTypeInvokable = cast(__.param(2));
__ln();
__out(" ");
__dl();
if (if(type.factoryOf().isNew())) {
__dl();__ln();
__out("/**").ln();
__out("   * Construct a new immutable { @code ");
__().type.name();
__out("} instance.").ln();
__out(" ");
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : Sin(type.getConstructorArguments())) {
__dl();__ln();
__out("   * @param ");
__().v.name();
__out(" The value for the { @code ");
__().v.name();
__out("} attribute");
__dl();
if (if(v.isNullable())) {
__dl();__out("can be { @code null}");
}
__dl();__ln();
}
```java
__out("private ");
$(___.type.typeImmutable().simple());
__out("(");
$___.output.linesShortable, new org.immutables.generator.Templates.Fragment(0) {
@Override
public void run(org.immutables.generator.Templates.Invokation __) {
___.dl();{final org.immutables.generator.Templates.Iteration _it1 = new
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
___.dl();___.dl();
if ($if($(not, _it1.first))) {
___.dl();___.dl();
___.dl();___.ln();
$___.v.atNullability();
$___.constructorAcceptTypeInvokable, v);
___.out(" ");
$___.v.name());
___.dl();_it1.index++;
_it1.first = false;
}
___.dl();___.dl();
}
___.out(" ");___.ln();
___.out(" ");
}
___.dl();___.ln();
___.out(" ");
$___.v.atNullability();
$___.constructorAcceptTypeInvokable, v);
___.out(" ");
$___.v.name());
___.dl();_it1.index++;
_it1.first = false;
}
___.dl();___.dl();

if ($if($(type.getConstructorOmitted(), or, $(type.hasEncodingValueOrVirtualFields(), or,
$(type.isGenerateSafeDerived(), and, type.hasDerivedAttributes())))) {
___.dl();___.ln();
___.out(" ");
final org.immutables.generator.Templates.Invokable shim = new
org.immutables.generator.Templates.Fragment(0) {
@Override
public void run(org.immutables.generator.Templates.Invokation __) {
___.dl();final org.immutables.generator.Templates.Invokable shim = this;
$(___.disambiguateField, type, "initShim");
___.dl();
});___.dl();___.ln();
___.out(" ");
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
final java.lang.String n = $cast(v.name());
___.dl();___.ln();
___.dl();
if ($if($(v.isGenerateDefault, and, type.isGenerateSafeDerived())) {
```
__.dl();__.ln();
$__().
$__out(" .
$__($___.valueFrom, type, v, n, withoutOptional);
$__out(";").ln();
} else if ($if(v.hasVirtualImpl())) {
  $__().
  $__out(" ");
  $__($___.rr.virtualImpl(), v);
  $__out(" = ");
  $__($___.valueFrom, type, v, n, withoutOptional);
  $__out(";").ln();
}
else {
  $__().
  $__out(" this.");
  $__($___. n);
  $__out(" = ");
  $__($___.valueFrom, type, v, n, withoutOptional);
  $__out(";").ln();
}

$(___.generateConstructorDefaultAttributes, type, type.getConstructorOmitted());
$__().
$__out(" ");
$__($___.generateDerivedConstruction, type, type.getConstructorArguments());
$__().
$__out(" ");

$(___.generateConstructorDefaultAttributes, type, type.getConstructorOmitted());
$__().
$__out(" ");
$__($___.generateDerivedConstruction, type, type.getConstructorArguments());
$__().
$__out(" ");

{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
 for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
 final java.lang.String n = $cast(v.name());
  $__().
  $__out(" ");
  $($___. n);
  $__out(" = ");
}
public org.immutables.generator.Templates.Invokable buildFromMandatoryAttribute() {
    return buildFromMandatoryAttribute;
}
private final org.immutables.generator.Templates.Invokable buildFromMandatoryAttribute = new FragmentDispatch(2, 38);

void _t38__buildFromMandatoryAttribute(org.immutables.generator.Templates.Invokation __) {
    final org.immutables.generator.Templates.Invokable buildAttribute = __.param(0);
    final org.immutables.value.processor.meta.ValueAttribute v = __.param(1);
    if ($if(v.isMandatory())) {
        if (instance.;)
            __.out("if (instance.");
            __.out("if (instance.");
            __.out("if (instance.");
            __.out("if (instance.");
            __.out("if (instance.");
    } else {
        __.out("if (instance.");
        __.out("if (instance.");
        __.out("if (instance.");
        __.out("if (instance.");
        __.out("if (instance.");
    }
}

org.immutables.generator.Templates.Invokable dynamicFromModifiableCheck() {
    return dynamicFromModifiableCheck;
}
private final org.immutables.generator.Templates.Invokable dynamicFromModifiableCheck = new FragmentDispatch(3, 39);

void _t39__dynamicFromModifiableCheck(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.value.processor.meta.ValueType type = __cast(__.param(0));
    final java.lang.String varName = __.param(1).toString();
    final java.lang.String returnStatement = __.param(2).toString();
    __.ln();
    __.dl();
    if ($if(type.kind().isModifiable())) {
        __.dl();___.ln();
        __.out("if (");
        $(__, varName);
        __.out(" instanceof ");
        $(__, type.typeModifiable().relativeRaw());
        $(__, type.generics().unknown);
        __.out(") ");.ln();
        __.out(" ");
        __.dl();
        if ($if(returnStatement)) {
            __.dl();___.ln();
            __.out(" ");
            $(__, type.names().from);
            __.out("(");
            $(__, type.typeModifiable());
            __.out(" ");
            $(__, varName);
            __.out(";");.ln();
            __.out(" ");
            $(__, returnStatement);
            __.ln();
            __.out(" ");
        } else {
            __.dl();___.ln();
            __.out(" return ");
            $(__, type.names().from);
            __.out("(");
            $(__, type.typeModifiable());
            __.out(" ");
            $(__, varName);
            __.out(";");.ln();
            __.out(" ");
        }
    }
    __.dl();___.ln();
    __.out(" ");.ln();
}
org.immutables.generator.Templates.Invokable generateSafeDerivedShim() { return generateSafeDerivedShim; }
private final org.immutables.generator.Templates.Invokable generateSafeDerivedShim = new FragmentDispatch(1, 40);

void _t40__generateSafeDerivedShim(org.immutables.generator.Templates.Invocation __) {

final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
{final org.immutables.generated.value.processor.meta.ValueAttribute deriveds = org.immutables.generator.Intrinsics.$collect();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getImplementedAttributes())) {
if ($if($(v.isGenerateDefault, or, v.isGenerateDerived)) {
  deriveds.add(v);
} }
__out("private static final byte STAGE_INITIALIZING = -1; ").ln();
__out("private static final byte STAGE_UNINITIALIZED = 0; ").ln();
__out("private static final byte STAGE_INITIALIZED = 1; ").ln();
}
final org.immutables.value.processor.meta.ValueType type_hiddenMutableState_1091893888 = $cast(type);
if ($if($(type_hiddenMutableState_1091893888, allowsClasspathAnnotation, "com.google.errorprone.annotations.Immutable")) {
  __out("@SuppressWarnings("Immutable")");
}
private transient volatile InitShim __ = new InitShim();

{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute f : $in(deriveds)) {
if ($if(f.isEncoding())) {
  __dl();
  if ($if(_it2.first)) {
    if ($if($(type, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue"))) {
      __dl();
      __out("\n  ");
    }
  }
  __dl();
  __out("private transient volatile InitShim ");
  $(__ disambiguateField, type, "initShim");
  __out(" = new InitShim();");
  __dl();
  $(__, atGenerated, type);
  __dl();
  }
  __dl();
  if ($if(_it2.first)) {
    if ($if($(type, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue"))) {
      __dl();
    }
  }
}
private final class InitShim {
    final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute v : $in(deriveds)) {
        _it2.index++;
        _it2.first = false;
    }
    final org.immutables.generator.Templates.Invokable stage = new org.immutables.generator.Templates.Invokable();
    private byte $__ = STAGE_UNINITIALIZED;
    private volatile $(__, immutableImplementationType, v);
if (v.isEncoding()) {
  __dl();__$_.__rr.shimFields(v);
}

__dl();__$_.__ln();
__ln();
__out(" ");
__$_.__immutableImplementationType(v);
__out(" ");
__$_.v.names.get();
__out("() {".ln();
__out(" if (");
__$_.stage();
__out(" == STAGE_INITIALIZING) throw new ");
__$_.type.getThrowForInvalidImmutableState();
__out("(formatInitCycleMessage());".ln();
__out(" if (");
__$_.stage();
__out(" == STAGE_UNINITIALIZED) ");.ln();
__out(" ");
__$_.stage();
__out(" = STAGE_INITIALIZING;".ln();
__out(" this.");
__$_.v.name();
__out(" = ");
{final org.immutables.value.processor.meta.ValueAttribute v_valueFromSuper_1184295742 = $cast(v);
final org.immutables.generator.Templates.Invokable expression_valueFromSuper_1184295742 = new
org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __dl();final org.immutables.generator.Templates.Invokable expression_valueFromSuper_1184295742 = this;
    __dl();
    if (v.defaultInterface()) {
      __dl();__$_.invokeSuperGet();
    } else {
      __dl();__$_.invokeSuperQualified(v);
      __out(".");
      __out(",.");
     __$_.v.names.get();
    }
    __dl();__out("()");
    __dl();
  }
});__dl();__dl();
if (v_valueFromSuper_1184295742.isGuavaImmutableDeclared()) {
  __dl();__dl();
  if (v_valueFromSuper_1184295742.isNullable()) {


__dl();$___.requireNonNull, v_valueFromSuper_1184295742.containingType);
$___.out("(");
$(___.expression_valueFromSuper_1184295742);
$___.out(",");
$___.v_valueFromSuper_1184295742.name());
$___.out(")");

} else {
___.dl();$___.expression_valueFromSuper_1184295742);

} ___.dl();
} else {
___.dl();$___.valueFromValue, v_valueFromSuper_1184295742, expression_valueFromSuper_1184295742);

} ___.dl();
} ___.out(";`).ln();
___.out("`");
___.dl();
if ($if(v.isEncoding()) { 
___.dl();$___.rr.shimAssign(), v);

} ___.dl();___.ln();
___.out("`");
$(___.stage);
___.out(" = STAGE_INITIALIZED;").ln();
___.out("  ");
___.out("  return this.");
$(___.v.name());
___.out(";").ln();
___.out(" ");
___.out(" ");
___.dl();
if ($if(v.isEncoding()) { 
___.dl();$___.rr.shimAccessor(), v);

} ___.dl();___.ln();
___.out(" ");
___.dl();
if ($if(v.isGenerateDefault)) { 
___.dl();___.ln();
___.ln();
___.out(" void ");
$(___.v.names.init);
```java
__.out("(");
$___.immutableImplementationType, v);
$___.out("");
$___.v.name());
$___.out(" ");
$___.v.name());
$___.out(" this.");
$___.v.name());
$___.out(" = ");
$___.v.name());
$___.out(";");
$___.out(" ");
___.dl();
if ($if(v.isEncoding())) {
  ___.dl();$___.rr.shimAssign(), v);
}
___.dl();___.ln();
___.out(" ");
$___.stage);
___.out(" = STAGE_INITIALIZED;").ln();
___.out(" ").ln();
___.out(" ");

}
___.dl();___.ln();
___.ln();
___.dl();___.it2.index++;}
_it2.first = false;
}
___.dl();___.ln();
___.ln();
___.dl();___.it2.index++;
___.dl();___.ln();___.ln();
___.dl();___.ln();
___.ln();
___.dl();___.it2.index++;}
___.dl();___.ln();
___.ln();
___.dl();___.ln();
___.dl();___.ln();
___.ln();
___.dl();___.ln();
___.ln();
___.dl();___.ln();
___.ln();
___.dl();___.ln();
___.ln();
___.dl();___.ln();
___.ln();
___.dl();___.ln();
___.ln();
___.dl();___.ln();
___.ln();
___.dl();___.ln();
___.ln();
___.dl();___.ln();
___.ln();
final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(deriveds)) {
  ___.dl();___.ln();
  ___.out(" ");
  ___.out(" ");
  final org.immutables.generator.Templates.Invokable stage = new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation ___) {
      ___.dl();final org.immutables.generator.Templates.Invokable stage = this;
      $__(, disambiguateField, type, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation ___) {
          ___.dl();$__(, v.name());
          ___.out("BuildStage");
          ___.dl();
```

_it2.first = false;
}}
__dl();__ln();
__dl();_it1.index++;
_it1.first = false;
}
__dl();__ln();
__dl();
;

org.immutables.generator.Templates.Invokable constructorAcceptTypeNoOptional() { return
constructorAcceptTypeNoOptional; }
private final org.immutables.generator.Templates.Invokable constructorAcceptTypeNoOptional = new
FragmentDispatch(1, 41):
void _t41__constructorAcceptTypeNoOptional(org.immutables.generator.Templates.Invokation __) {
__dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
$___.output.trim, new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
__dl();__ln();
__out(" ");
__dl();
if ($if(a.isOptionalType())) {
__dl();__ln();
__out(" ");
$___.unwrappedOptionalType, a);
__ln();
__out(" ");
} else {
__dl();__ln();
__out(" ");
$___.constructorAcceptType, a);
__ln();
__out(" ");
}
__dl();__ln();
__dl();
}));
__dl();
;

org.immutables.generator.Templates.Invokable constructorAcceptType() { return constructorAcceptType; }
private final org.immutables.generator.Templates.Invokable constructorAcceptType = new
FragmentDispatch(1, 42):
void _t42__constructorAcceptType(org.immutables.generator.Templates.Invokation __) {
__dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
$___.output.trim, new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
  __.dl(); __.ln();
  __.dl();
  if ($if(a.isEncoding()) {
    __.dl(); __.ln();
    __.out("  ");
    $(__, rr.constructorAcceptType(), a);
    __.ln();
  } else if ($if(a.typeKind().isMultimapKind())) {
    __.dl(); __.ln();
    __.out("  ");
    $(__, guava);
    __.out(" .collect.Multimap<");
    $(__, a.getConsumedElementType());
    __.out(" , ? extends ");
    $(__, a.getSecondaryElementType());
    __.out(">").ln();
  } else if ($if(a.typeKind().isMapKind())) {
    __.dl(); __.ln();
    __.out("  java.util.Map<");
    $(__, a.getConsumedElementType());
    __.out(" , ? extends ");
    $(__, a.getSecondaryElementType());
    __.out(">").ln();
  } else if ($if(a.typeKind().isCollectionKind())) {
    __.dl(); __.ln();
    __.out("  Iterable<");
    $(__, a.getConsumedElementType());
    __.out(">").ln();
  } else if ($if($(a.isOptionalType(), andnot, a.isJdkSpecializedOptional()))) {
    __.dl(); __.ln();
    __.out("  ");
    $(__, a.getRawType());
    __.out("<");
    $(__, a.getConsumedElementType());
    __.out(">").ln();
  } else {
    __.dl(); __.ln();
    __.out("  ");
    $(__, a.getType());
    __.ln();
  }

  __.dl(); __.ln();
  __.dl();
}};
org.immutables.generator.Templates.Invokable generateJacksonMapped() { return generateJacksonMapped; }

private final org.immutables.generator.Templates.Invokable generateJacksonMapped = new FragmentDispatch(1, 43);

void _t43__generateJacksonMapped(org.immutables.generator.Templates.Invokation __) {
  __dl(); final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  __ln();
  __dl();
  if ($if($(type.isGenerateJacksonMapped(), and, $(classpath.available,
      "com.fasterxml.jackson.annotation.JsonCreator"))) {
    __dl(); __ln();
    __out(" ");
    __dl();
    if ($if(type.getJacksonValue())) {
      final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
      final org.immutables.value.processor.meta.ValueAttribute jval = $cast(type.getJacksonValue());
      __dl(); __ln();
      __ln();
      __out("/**").ln();
      $(__, javadocGenerics, type);
      __ln();
      __out(" * @param jsonValue to construct object from").ln();
      __out(" * @return An immutable value type").ln();
      __out(" * @deprecated Do not use this method directly, it exists only for the <em>Jackson</em>-binding infrastructure").ln();
      __out(" */").ln();
      __out("@Deprecated").ln();
      __dl();
      if ($if($(classpath.available, "com.fasterxml.jackson.annotation.JsonCreator.Mode"))) {
        __dl(); __ln();
        __out("@com.fasterxml.jackson.annotation.JsonCreator(mode =
            com.fasterxml.jackson.annotation.JsonCreator.Mode.DELEGATING")").ln();
      } else {
        __dl(); __ln();
        __out("@com.fasterxml.jackson.annotation.JsonCreator").ln();
      }
      __dl(); __ln();
      __out("static");
      $(__, type.generics().def());
      __out(" ");
      $(__, type.typeImmutable().relative());
      __out(" fromJson(");
      $(__, jval.getType());
      __out(" jsonValue").ln();
      __out("}").ln();
  }
}
final org.immutables.generator.Templates.Invokable cast = new org.immutables.generator.Templates.Invokable() {

@Override public void run(org.immutables.generator.Templates.Invocation __) {
    __dl();final org.immutables.generator.Templates.Invokable cast = this;
    __dl();
    if ($if($(type.constitution.returnsAbstractValueType(), or, type.getInnerBuilder().isExtending))) {
        __dl();__.out(""");
        $(__, type.typeImmutable().relative());
        __out(""");
        __dl();
    }
    if ($if(type.isUseBuilder())) {
        __dl();__ln();
        __dl();
        if ($if(type.isUseBuilder())) {
            __dl();__ln();
            __out(""");
            $(__, type.typeBuilder().relative());
            __out(" builder = ");
            $(__, castBuildStagedBuilder, type, new org.immutables.generator.Templates.Fragment(0) {
                @Override public void run(org.immutables.generator.Templates.Invokation __) {
                    __dl();$(__, type.factoryBuilder().relative());
                    __out("()");__dl();
                    __out(";").ln();
                    __out(" ");
                    if ($if(type.isUseBuilder())) {
                        __dl();__ln();
                        __out(""");__dl();
                        __out(" ");
                        final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
                        for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())) {
                            if ($if($(v, eq, jval))) {
                                __dl();__ln();
                                if ($if(v.isEncoding())) {
                                    __dl();__ln();
                                    __out(" ");
                                    __dl();
                                    __out(" ");
                                    $(__, rr.builderCopyFrom(), v);
                                    __out("(jsonValue);");
                                    __out(" ");
                                } else if ($if(v.isCollectionType())) {
                                    __dl();__ln();
                                    __out(" ");
                                    __dl();
                                    __out(" ");
                                    $(__, v.names.addAll());
                                    __out("(jsonValue);".ln());
                                    __out(" ");
                                } else if ($if(v.isMapType())) {
                                    __dl();__ln();
                                    __out(" ");
                                    __dl();
                                    __out(" ");
                                    $(__, v.names.addAll());
                                    __out("(jsonValue);".ln());
                                    __out(" ");
                                } else if ($if(v.isMapType())) {
                                    __dl();__ln();
                                    __out(" ");
                                    __dl();
                                    __out(" ");
                                }
                            }
                        }$(__, _it2, type, new org.immutables.generator.Templates.Iteration());
                    }
                }
            });
        }
    }
}
```java
_\_.out("_ builder.");
$___. v.names.putAll();
_\_.out("_ (jsonValue);");ln();
_\_.out("_ ");

} else {
  _\_.dl();\_ln();
_\_.out("_ builder.");
$___. v.names.init;
_\_.out("_ (jsonValue);");ln();
_\_.out("_ ");

}
_\_.dl();\_ln();
_\_.out("_ return ");
$___. cast;
_\_.out("builder.");
$___. type.names().build;
_\_.out("_;");ln();
} else if ($if(type.isUseSingletonOnly())) {
_\_.dl();\_ln();
_\_.out("_ return ");
$___. cast;
$___. type.factoryInstance().relative();
_\_.out("_;");ln();

} else if ($if(type.isUseSingletonOnly())) {
  _\_.dl();\_ln();
_\_.out("_ return ");
$___. cast;
$___. type.factoryInstance().relative();
_\_.out("_;");ln();

} else {
  _\_.dl();\_ln();
_\_.out("_ ");
_\_.dl();
if ($if(type.isUseConstructor())) {
  _\_.dl();\_ln();
_\_.out("_ ");
$___. type.typeImmutable().relative();
_\_.out("_ instance = ");
$___. cast;
$___. type.factoryOf().relative();
_\_.out("_;");

{final org.immutables.generator.Templates.Iteration _it2 = new
  org.immutables.generator.Templates.Iteration() {
    final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments()) {
      if ($if($(v, eq, jval))) {
        _\_.dl();\_out("_jsonValue"tes);
```
```java
__dl();__it2.index++;  
__it2.first = false;  
}))
__dl();__out(");
__out(" ");
} else if ($if(type.isUseSingleton())) {
__dl();__ln();  
__out(" ");
$(__, type.typeImmutable().relative());
__out(" instance = ");
$(__, cast);
$(__, type.factoryInstance().relative());
__out("();").ln();  
__out(" ");
}
else {
__dl();__ln();  
__out(" ");
$__ = new org.immutables.generator.Templates.FragmentsFragment();
@Override public void run(org.immutables.generator.Templates.Invocation __) {
__dl();__out("Cannot generate JSON code when there are no builders, constructors or singletons
available");
__dl();
});
__ln();  
__out(" ");
}
__dl();__ln();  
__out(" ");
{final org.immutables.generator.Templates.Iteration _it2 = new
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute o :
$in(type.getWithSettableAfterConstruction())) {
if ($if($(o, eq, jval))) {
__dl();__ln();  
__out(" instance = instance.");
$__ = o.names.with;
__out("(jsonValue);").ln();  
__out(" ");
__dl();__it2.index++;  
__it2.first = false;
})
__dl();__ln();  
__out(" return instance;").ln();
}
__dl();__ln();
```
```java
__.out("}").ln();
__.dl();_it1.index++;
_it1.first = false;
}
__.dl();__.ln();
__.out(" ");

} else {
__.dl();__.ln();
__.ln();
__.out("/**").ln();
__.out(" * Utility type used to correctly read immutable object from JSON representation.").ln();
__.out(" * @deprecated Do not use this type directly, it exists only for the <em>Jackson</em>-binding infrastructure").ln();
__.out(" */").ln();
$___.atGenerated, type);
__.ln();
__.out("@Deprecated").ln();
__.dl();__.ln();
{final org.immutables.value.processor.meta.ValueType type_hiddenMutableState_1091893888 = $cast(type);
__.dl();
if ($if($(type_hiddenMutableState_1091893888, allowsClasspathAnnotation,
"com.google.errorprone.annotations.Immutable"))) {
__.dl();__.out("@SuppressWarnings("Immutable")");
}
__.dl();
}
__.ln();
{final org.immutables.value.processor.meta.ValueType type_overrideJsonDeserialize_1691212826 = $cast(type);
__.dl();
if ($if(type_overrideJsonDeserialize_1691212826.isJacksonDeserialized())) {
__.dl();__.out("@com.fasterxml.jackson.databind.annotation.JsonDeserialize");
}
__.dl();
}
__.ln();
{final org.immutables.value.processor.meta.ValueType type_overrideJsonTypeInfo_1598944724 = $cast(type);
__.dl();
if ($if(type_overrideJsonTypeInfo_1598944724.isJacksonJsonTypeInfo())) {
__.dl();__.out("@com.fasterxml.jackson.annotation.JsonTypeInfo(use=com.fasterxml.jackson.annotation.JsonTypeInfo.Id.NONE)";
}
__.dl();
}
__.ln();
{final org.immutables.value.processor.meta.ValueType type_overrideJsonTypeInfo_1598944724 = $cast(type);
__.dl();
if ($if(type_overrideJsonTypeInfo_1598944724.isJacksonTypeInfo())) {
__.dl();__.out("@com.fasterxml.jackson.annotation.JsonTypeInfo(use=com.fasterxml.jackson.annotation.JsonTypeInfo.Id.NONE)";
}
__.dl();
}
```

@Override public void run(org.immutables.generator.Templates.Invokation __) {
__dl();__out("class Json");
$___, type.generics();
__ln();
__out(" ");
$___, extendsImplements, type);
__dl();
});
__ln();
__out(" ");
$___, serialVersionUID, type);
__ln();
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())) {
if ($if($(not, v.jacksonAnyGetter))) {
__dl();__ln();
__out(" ");
__dl();
if ($if(v.isEncoding())) {
__dl();__ln();
__out(" ");
__dl();
if ($if(v.instantiation.supportsDefaultValue())) {
__dl();__ln();
__out(" ");
$(___, v.getType());
__out(" ");
$(___, v.name());
__out(" = ");
$(___, rr.defaultValue(), v);
__out(";");__ln();
__out(" ");
} else {
__dl();__ln();
__out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);
__dl();
if ($if($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable")) {
__dl();__out("@javax.annotation.Nullable ");

}
$(__, v.getType());
__out(" ");
$(__, v.name());
__out(";").ln();
__out(" ");

__dl();__ln();
__out(" ");
} else if ($if(v.isOptionalType())) {
__dl();__ln();
__out(" ");

{final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);
__dl();
if ($if($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable"))) {
__dl();__out("@javax.annotation.Nullable ");
}
__dl();
}
$__dl();
}$(__, v.getType());
__out(" ");
$(__, v.name());
__out(" = ");
{final org.immutables.value.processor.meta.ValueAttribute a_optionalEmpty_1867206284 = $cast(v);
$__dl();
if ($if(a_optionalEmpty_1867206284.isJdkOptional())) {
__dl();__out("empty");
} else if ($if($(a_optionalEmpty_1867206284.isFugueOptional(), or,
a_optionalEmpty_1867206284.isJavaslangOptional()))) {
__dl();__out("none");
} else {
__dl();__out("absent");
}
__dl();__out("()");

__out(";").ln();
__out(" ");
} else if ($if($v.isCollectionType(), or, v.isMapType())) {
__dl();__ln();
__out(" ");

{final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);
if ($) {__ dl();
    if (allowsClasspathAnnotation, "javax.annotation.Nullable")) {
        __ dl();
        out("@javax.annotation.Nullable ");
    } else if (v.isPrimitive()) {
        __ dl();
        out(" ");
        __ out(" ");
    } else {
        __ dl();
        out(" ");
        final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);
        __ dl();
        if (allowsClasspathAnnotation, "javax.annotation.Nullable")) {
            __ dl();
            out("@javax.annotation.Nullable ");
        } else if (v.isPrimitive()) {
            __ dl();
            out(" ");
            __ out(" ");
        } else {
            __ dl();
            out(" ");
    } else {
        __ dl();
        out(" ");
        ($disambiguateField, type, $(v.name(), "IsSet"));
    }
```java
__.out("");__.ln();
__.out("  ");
}
__.dl();__.ln();
__.dl();_it1.index++;_it1.first = false;
})
__.dl();__.ln();
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())) {
if ($if(v.jacksonAnyGetter)) {
__.dl();__.ln();
__.out("  final ");
$__ v.getType();
__.out(" ");
$__ v.name();
__.out(" = new java.util.HashMap");
$__ v.getGenericArgs();
__.out("();").ln();
__.dl();_it1.index++;_it1.first = false;
})
__.dl();__.ln();
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())) {
if ($if(!v.jacksonAnyGetter)) {
__.dl();__.ln();
__.out("    public void ");
$__ eachLine, v.getAnnotations();
__.ln();
__.out(" ");
$__ eachLine, v.initializerInjectedAnnotations();
__.ln();
__.out("    public void ");
$__ v.names.beanSet();
__.out("()");
$__ v.atNullability();
$__ v.getType();
__.out(" ");
$__ v.name();
__.out(""");.ln();
__.out("    this.");
$__ v.name();
__.out(" = ");
$__ v.name();
__.out(";");.ln();
__.out(" ");
```
if ($if($v.isPrimitive(), or, $v.requiresTrackIsSet(), andnot, $v.jacksonAnyGetter)) {
    $(__, disambiguateField, type, $v.name(), "IsSet");
    $out(" = true;").ln();
    $out(" ");
}

{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())) {
        if ($if(v.jacksonAnyGetter)) {
            $dl();
            $ln();
            $out(" @com.fasterxml.jackson.annotation.JsonAnySetter").ln();
            $out(" public void set");
            $(__, toUpper, v.name());
            $out("( key, ");
            $(__, v.getWrappedFirstElementType());
            $out(" key, ");
            $(__, v.getWrappedSecondaryElementType());
            $out(" value ");
            $out(" ").ln();
            $out(" this.");
            $(__, v.name());
            $out(".put(key, value);").ln();
            $out(" ");
            $dl();
            _it1.index++;
            _it1.first = false;
        }
    }
}

{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    for (final java.lang.String signature : $in(type.getNonAttributeAbstractMethodSignatures())) {
        $dl();
        $ln();
        $out(" @Override");
        $dl();
        $ln();
        $out(" ");
        $(__, signature);
        $out(" { throw new UnsupportedOperationException(); }");
        $dl();
        _it1.index++;
        _it1.first = false;
    }
}
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getAllAccessibleAttributes())) {
  __.dl();___.ln();
  __.out(" ");
  __.dl();
  if ($if(v.isGenerateDerived)) {
    __.dl();____.ln();
    __.out("  @com.fasterxml.jackson.annotation.JsonIgnore").ln();
    __.out("  ");
  }
  __.dl();____.ln();
  __.out("  @Override");
  __.dl();____.ln();
  __.out("  ");
  if ($(classpath.available, "com.fasterxml.jackson.annotation.JsonCreator.Mode")) {
    __.dl();____.ln();
    __.out("  @com.fasterxml.jackson.annotation.JsonCreator\(mode = com.fasterxml.jackson.annotation.JsonCreator.Mode.DELEGATING\)\)");
  } else {
    __.dl();____.ln();
    __.out("  @com.fasterxml.jackson.annotation.JsonCreator\)");
  }
  __.dl();____.ln();
  __.out("static");
}
```java
$___.type.generics().def();
$___.out(" ");
$___.type.typeImmutable().relative();
$___.out(" fromJson(Json");
$___.type.generics().args();
$___.out(" )");
final org.immutables.generator.Templates.Invokable cast = new
org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
___dl();final org.immutables.generator.Templates.Invokable cast = this;
___dl();
if ($if($(type.constitution.returnsAbstractValueType(), or, type.getInnerBuilder().isExtending)) {
___dl();___out("(");
$___.type.typeImmutable().relative());
___out(" ");
}
___dl();___dl();
}}};

if ($if(type.isUseBuilder()) {
___dl();___ln();
___out(" ");
$___.type.typeBuilder().relative());
___out(" builder = ");
$___.castBuildStagedBuilder, type, new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
___dl();$___.type.factoryBuilder().relative());
___out("()");
___dl();
}});}
___out(";");
___out(" ");
{final org.immutables.generator.Templates.Iteration_it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())) {
___dl();___ln();
___out(" ");
___dl();
if ($if($v.requiresTrackIsSet(), or, v.isPrimitive())) {
___dl();___ln();
___out(" if (json."");
$___.disambiguateField, type, $v.name(), "IsSet");
___out(" ");
___out(" ");
} else {
___dl();___ln();
___out(" if (json."");
```
$(__, v.name());
__out(" != null) {").ln();
__out(" ");
}
__dl();__ln();
__out(" ");
__dl();
if ($if(v.is(Encoding()))) {
__dl();__ln();
__out(" builder.");
$(__, rr.builderCopyFrom(), v);
__out("(json.");
$(__, v.name());
__out(")");ln();
__out(" ");
} else if ($if(v.isCollectionType())) {
__dl();__ln();
__out(" builder.");
$(__, v.names.addAll());
__out("(json.");
$(__, v.name());
__out(")");ln();
__out(" ");
} else if ($if(v.isMapType())) {
__dl();__ln();
__out(" builder.");
$(__, v.names.putAll());
__out("(json.");
$(__, v.name());
__out(")");ln();
__out(" ");
} else {
__dl();__ln();
__out(" builder.");
$(__, v.names.init);
__out("(json.");
$(__, v.name());
__out(")");ln();
__out(" ");
}
__dl();__ln();
__out(" ");ln();
__out(" ");
__dl();__it1.index++;
_it1.first = false;
Open Source Used In kASA v1 8125

```java
if ($if(type.isUseSingletonOnly())) {
  __(::).out("return ");
  __(::).cast();
  __(::).out("builder.");
  __(::).type.names().build;
  __(::).out("()").ln();
} else if ($if(type.isUseSingletonOnly())) {
  __(::).out("return ");
  __(::).cast();
  __(::).type.factoryInstance().relative();
  __(::).out("()").ln();
} else {
  __(::).ln();
  final org.immutables.generator.Templates.Invokable varDecl = new
  org.immutables.generator.Templates.Invokable();
  __(::).ln();
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __(::).final org.immutables.generator.Templates.Invokable varDecl = this;
    __(::); if ($if(type.getWithSettableAfterConstruction())) {
      __(::).HasStyleInfo s_atVar_1287436599 = $cast(type);
      __(::); if ($if($(s_atVar_1287436599, allowsClasspathAnnotation, "com.google.errorprone.annotations.Var"))) {
        __(::).out("@com.google.errorprone.annotations.Var ");
      }
      __(::);}
      __(::).ln();
      __(::).println("instance");
    }
    __(::).ln();
    if ($if(type.isUseConstructor())) {
      __(::).ln();
      __(::).varDecl();
      __(::).cast();
      __(::).type.factoryOf().relative();
      __(::).println("()");
    }
  }
```
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {
    __dl();__dl();
    if ($if($not, _it1.first)) {
        __dl();__out(" ");
    }
    __dl();__out("json.");
    $(__, v.name());
    __dl();_it1.index++;
    _it1.first = false;
}
__dl();__out(" ").ln();
__out(" ");
} else if ($if(type.isUseSingleton())) {
    __dl();__ln();
    __out(" ");
    $(__, varDecl);
    __out(" = ");
    $(__, cast);
    $(__, type.factoryInstance().relative());
    __out("():").ln();
    __out(" ");
}
else {
    __dl();__ln();
    __out(" ");
    $(__, output.error, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __dl();__out("Cannot generate JSON code when there are no builders, constructors or singletons available");
        }
    });
    __ln();
    __out(" ");
}
__dl();__ln();
__out(" ");
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getWithSettableAfterConstruction())) {
    __dl();__ln();
    __out(" ");
    __dl();
    if ($if($v.requiresTrackIsSet(), or, v.isPrimitive())) {
        __dl();__ln();
        __out(" if (json.");
    } else {
        __dl();
    }
    __ln();
    __out(" ");
}
null);}
  __.ln();
  __.out("  if (json.");
$(__, v.name());
___.out(" != null) {").ln();
___.out(" ");

} ___.dl(); ___.ln();
_.out("  instance = instance.");
$(__, v.names.with);
___.out("json.");
$(__, v.name());
___.out(";").ln();
___.out(" } ").ln();
___.out(" ");
___.dl(); _it1.index++;
_it1.first = false;
}
___.dl(); ___.ln();
___.out("  return instance;").ln();

}
___.dl(); ___.ln();
___.out("  ");

}
___.dl(); ___.ln();
___.out(" ");

}
___.dl(); ___.ln();
___.dl();
___.dl();
___.dl();
___.dl();

org.immutables.generator.Templates.Invokable generateAccessorMethods() {
    return generateAccessorMethods;
}
private final org.immutables.generator.Templates.Invokable generateAccessorMethods = new FragmentDispatch(1, 44);
void _t44__generateAccessorMethods(org.immutables.generator.Templates.Invokation __) {
    ___.dl(); final org.immutables.value.processor.meta.ValueType type = $cast(___.param(0));
    ___.ln();
    ___.dl();
    if ($if(type.isAnnotationType())) {
        ___.dl(); ___.ln();
    } else {
        ___.dl(); ___.ln();
        ___.out("  if (json.");
$(__, v.name());
___.out(" != null) {").ln();
___.out(" ");

} ___.dl(); ___.ln();
___.out("  ");

}
___.dl(); ___.ln();
___.dl();
___.dl();
___.dl();


__out("    return ");
$___.out(" != null").ln();
$___.out("    ? ");
$___.v.getRawType();
$___.out(" .of(");
$___.v.name();
$___.out(" )").ln();
$___.out("    : ");
$___.v.getRawType();
$___.out(" .empty()");
	}
}
$___.dl();
$___.ln();
$___.out("  return ");
$___.v.getRawType();
$___.out(" .ofNullable(");
$___.v.name();
$___.out(" )").ln();
}
$___.dl();
$___.ln();
$___.out("  }");
$___.ln();
$___.out("  ");
}
$___.dl();
$___.ln();
$___.getAccess();
$___.v.getNullabilityOriginal();
($___.immutableImplementationType, v);
$___.out("  ");
$___.v.names.get;
$___.out("() {").ln();
$___.dl();
if ($if($(type.isGenerateSafeDerived(), and, $(v.isGenerateDerived, or, v.isGenerateDefault)))) {
  InitShim shim = this.
$___.disambiguateField, type, "initShim");
$___.out(";");
$___.ln();
$___.dl();
if ($if$(v.isArrayType(), andnot, v.isNullable())) {
  return shim != null
$___.out(" ? shim.");
$___.names.get;
$___.out("().clone()");
$___.ln();
$___.out(" : this.");
	}
	}
	}
	}
	}
}
$(__, v.name());
__out(".clone();").ln();
__out("  ");

} else {
__dl();__ln();
__out("  return shim != null").ln();
__out("     ? shim.");
$___.v.names.get;
__out("()".ln());
__out("    : this.");
$(___.v.name());
__out(";".ln());
__out("  ");

}
__dl();__ln();
} else if ($if(v.isArrayType())) {
__dl();__ln();
__out("  return ");
$___.valueFromValue, v, v.name();
__out(";".ln());

}
__dl();__ln();
__out("  ");
__dl();_it1.index++;
_it1.first = false;
}
__dl();__ln();
__out("  ");
__dl();__ln();
__out("  ");

} else if ($if(type.isGenerateOrdinalValue())) {
__dl();__ln();
__out("/**
 */").ln();
__out("  */").ln();

}
__dl();__ln();
__out("  ");
__dl();__ln();
__out("  ");

} if ($if(type.isGenerateOrdinalValue())) {
__dl();__ln();
__ln();
__out("/**
 */").ln();
__out("  */").ln();
```java
__out("public int ordinal() {" ).ln();
__out("  return ordinal;"").ln();
__out("  }").ln();
__out(" ");
}
__dl();__ln();
__dl();
};

org.immutables.generator.Templates.Invokable generateObjectUtilityMethods() { return generateObjectUtilityMethods; }
private final org.immutables.generator.Templates.Invokable generateObjectUtilityMethods = new FragmentDispatch(1, 45);
void _t45__generateObjectUtilityMethods(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  __ln();
};

final org.immutables.generator.Templates.Invokable equalToType = new org.immutables.generator.Templates.Invokable
@Override public void run(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.generator.Templates.Invokable equalToType = this;
  __dl();
  if ($if(type.isAnnotationType())) {
    __dl();$__(_).type.typeAbstract().relativeRaw());
  } else {
    __dl();$__(_).type.typeImmutable().relativeRaw());
    $(__, type.generics().unknown);
  }
  __dl();__dl();
};__dl();__ln();
{ final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
final java.util.List<org.immutables.value.processor.meta.ValueAttribute> getters =
$cast(type.getEquivalenceAttributes());
__dl();__ln();
__dl();
if ($if($not, type.isEqualToFinal)) {
  __dl();__ln();
  __dl();
};
if ($if($type.isUseReferenceEquality(), ornot, type.isEqualToDefined)) {
  __dl();__ln();
  __ln();
  __out("/**").ln();
  __dl();
};
if ($if(type.isAnnotationType())) {
  __dl();__ln();
  __out(" * This instance is equal to any implementation of the { @link ");
```

$(__, type.typeValue().relativeRaw());
__out("} type with equal attribute values.").ln();

} else {
__dl();__ln();
__out(" * This instance is equal to all instances of { @code ");
$(__, type.typeImmutable().simple());
__out("} that have equal attribute values.").ln();

}
__dl();__ln();
__dl();
if (!$if(type.isUseReferenceEquality())) {
__dl();__ln();
__out(" * As instances of the { @code ");
$(__, type.typeImmutable().simple());
__out("} class are interned, the { @code equals} method is implemented").ln();
__out(" * as an efficient reference equality check.").ln();

}
__dl();__ln();
__out(" * @return { @code true} if { @code this} is equal to { @code another} instance").ln();
__out(" * ").ln();
__out("Override").ln();
__out("public boolean equals(");
{final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(type);
__dl();
if (!$if($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable"))) { 
__dl();__out("@javax.annotation.Nullable ");

}
__dl();
__out("Object another) ").ln();
__out(" ");
__dl();
if (!$if(type.isUseReferenceEquality())) {
__dl();__ln();
__out(" return this == another;").ln();
__out(" ");

} else {
__dl();__ln();
__out(" if (this == another) return true;").ln();
__out(" ");

$(__, equalToType);
__ln();
__out(" & & equalTo(");
if ($if(type.isUseEqualTo())) {
  __dl();__ln();
  __out("  ");
}
__dl();__ln();
if ($if(type.isUseEqualTo)) {
  __dl();__ln();
  __ln();
  __dl();
  if ($if($is($type.isEqualToDefined, or, $($(type.isCacheHash(), or, getters)))))) {
    __dl();__ln();
    __dl();__ln();
  } else {
    __dl();__ln();
    __out("@SuppressWarnings("MethodCanBeStatic")").ln();
  }
}
__dl();__ln();
__out("private boolean equalTo(");
$(__, equalToType);
__out("  another) ").ln();
__out("  ");
__dl();
if ($if(type.isEqualToDefined)) {
  __dl();__ln();
  __out("  return super.equals(another); ").ln();
  __out("  ");
} else {
  __dl();__ln();
  __out("  ");
  __dl();
  if ($if(type.isCacheHash)) {
    __dl();__ln();
    __out("  ");
    __dl();
    if ($if(type.isAnnotationType)) {
      __dl();__ln();
      __dl();
      if ($if(type.isAnnotationType)) {
        __dl();__ln();
        __dl();
      } else {
        __dl();
        __dl();
      }
    } else {
      __dl();
      __dl();
    }
  } else {
    __dl();
    __dl();
  }
}
__.out(" if (another instanceof ");
$(__, type.typeImmutable().relativeRaw());
__.out(") {").ln();
__.out(" final int anotherHashCode = ((");
$(__, type.typeImmutable().relativeRaw());
__.out(") another).hashCode;").ln();
__.out(" if (");
__.dl();
if ($if(type.isUseLazyhash())) {
__.dl();__.out("hashCode != 0 && anotherHashCode != 0 && ");
}
__.dl();__.out("hashCode != anotherHashCode) return false;").ln();
__.out(" }").ln();
__.out("
");
} else {
__.dl();__.ln();
__.out(" if (");
__.dl();
if ($if(type.isUseLazyhash())) {
__.dl();__.out("hashCode != 0 && another.hashCode != 0 && ");
}
__.dl();__.out("hashCode != another.hashCode) return false;").ln();
__.out("
");
}
__.dl();__.ln();
__.out(" ");
}
__.dl();__.ln();
__.out(" return ");
__.dl();
if ($if($(not, getters))) {
__.dl();__.out("true");
}
__.dl();{final org.immutables.generator.Templates.Iteration _it2 = new
org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(getters)) {
__.dl();__.dl();
if ($if($(not, _it2.first))) {
__.dl();__.ln();
__.out("
&& ");
}

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Open Source Used In kASA v1 8138

__.out(" ");
$(__, h);
__.out(" += 127 * \"");
$(__, v.names.get);
__.out("\".hashCode() ^ java.util.Arrays.hashCode(");
$(__, v.name());
__.out(";");ln();
} else if ($if(v.isPrimitive())) {
  __dl();__ln();
  __out(" ");
$(__, h);
  __out(" += 127 * \"");
$(__, v.names.get);
  __out("\".hashCode() ^ ");
$(__, primitiveHashCode, v);
  __out(";");ln();
}

} else {
  __dl();__ln();
  __out(" ");
$(__, h);
  __out(" += 127 * \"");
$(__, v.names.get);
  __out("\".hashCode() ^ ");
$(__, v.name());
  __out(";");ln();
}

__dl();__ln();
__dl();_it2.index++;
_it2.first = false;
}
__dl();__ln();
__out(" return ");
$(__, h);
__out(";");ln();
} else if ($if(getters.isEmpty())) {
  __dl();__ln();
  __out(" return ");
$(__, type.hashCode());
  __out(";");ln();
}

} else {
  __dl();__ln();
  __out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atVar_1287436599 = $cast(type);
  __dl();
  if ($if(s_atVar_1287436599, allowsClasspathAnnotation, "com.google.errorprone.annotations.Var")) {

```java
__.dl();__.out("@com.google.errorprone.annotations.Var ");

}
__.dl();
__out("int ");
$(__, h);
__out(" = 5381;");ln();
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(getters)) {
  __dl();__ln();
  __dl();
  if ($if(v.isEncoding())) {
    __dl();__ln();
    __out(" ");
    __out(" += (")
    $(__, h);
    __out(" <\< 5 ") + 
    $(__, h);
    __out(" += (")
    $(__, h);
    __out(" <\< 5 ") + java.util.Arrays.hashCode(");
    $(__, v.name());
    __out(";");ln();
  } else if ($if(v.isArrayType())) {
    __dl();__ln();
    __out(" ");
    __out(" += (")
    $(__, h);
    __out(" <\< 5 ") + java.util.Arrays.hashCode(");
    $(__, v.name());
    __out(";");ln();
  } else if ($if($v.isNullable(), or, v.isJdkOptional())) {
    __dl();__ln();
    __out(" ");
    __out(" += (")
    $(__, h);
    __out(" <\< 5 ");
    $(__, h);
    __out(" += ");
    $(__, h);
    __out(" <\< 5 ") +
    $(__, objectsHashCode, type);
    __out(";");
    $(__, v.name());
    __out(";");ln();
  } else if ($if(v.isPrimitive())) {
    __dl();__ln();
    __out(" ");
    __out(" += (")
    $(__, h);
    __out(" <\< 5 ");
    $(__, h);
    __out(" += ");
    $(__, h);
    __out(" <\< 5 ") +
    $(__, h);
    __out(" ");
    __out(" += ");
    $(__, h);
    __out(" <\< 5 ");
    $(__, h);
    __out(" ");
    __out(" += ");
    $(__, h);
    __out(" <\< 5 ");
    $(__, h);
    __out(" ");
  }
}
```
$(__, primitiveHashCode, v);
__.out(";").ln();

} else {
  __.dl();__.ln();
  __.out(" ");
  $(__, h);
  __.out(" += (");
  $(__, h);
  __.out(" << 5 + ");
  $(__, v.name());
  __.out(".hashCode();").ln();

} __.dl();__.ln();
__dl();_it2.index++;
_it2.first = false;
}
__dl();__.ln();
__out(" return ");
$(__, h);
__out(";").ln();

} __.dl();__.ln();
__dl();
};__dl();__.ln();
__dl();

if ($if(type.isHashCodeDefined)) {
  __.dl();__.ln();
  __out(" ");
  __.dl();
  if ($if(type.isUsePrehashed())) {
    __.dl();__.ln();
    __out("/**");
    __out(" */");
    __.dl();
    __out("@Override");
    __out("public int hashCode() { ");
    __out(" return hashCode;");
    __out("} ");
    __.dl();
  }
}

else {
  .dl(); .ln();
  .out("/**").ln();
  .dl();
  if ($if(!getters)) {
    .dl(); .ln();
    .out("* Returns a constant hash code value. ").ln();
  } else if ($if(type.isCacheHash())) {
    .dl(); .ln();
    .out("* Returns a ");
    .dl();
    if ($if(type.isPrehashed())) {
      .dl(); .out("precomputed-on-construction");
    } else {
      .dl(); .out("lazily computed");
    }
  }
  .dl(); .out(" hash code from attributes: ");
  {final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute a : $in(getters)) {
      .dl(); .dl();
      if ($if(!_it2.first)) {
        .dl(); .out(", ");
      }
      .dl(); .out("{@code ", a.name());
      .out("} ");
      _it2.index++;
      _it2.first = false;
    }
    .dl(); .out(".").ln();
  }
  .dl(); .ln();
  .out("* Computes a hash code from attributes: ");
  {final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute a : $in(getters)) {
      .dl(); .dl();
      if ($if(!_it2.first)) {
        .dl(); .out(", ");
      }
      .dl(); .out("{@code ", a.name());
      .ln();
  }
if (type.isUsePrehashed()) {
  return hashCode;
} else if (!getters) {
  return 0;
} else if (type.isUseLazyhash()) {
  int h = this.hashCode;
  if (h == 0) {
    h = computeHashCode();
    this.hashCode = h;
  }
  return h;
} else {
  computeHashCodeBody();
}

if (type.isCacheHash() && getters) {
  ...
}
private final org.immutables.generator.Templates.Invokable generateToString = new FragmentDispatch(1, 46);
void _t46__generateToString(org.immutables.generator.Templates.Invokation __) {
  __dl();
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  __ln();
  __dl();
  if ($if(($not, type.isToStringDefined))) {
    __dl();
    __ln();
    __out("/**").ln();
    __out("* Prints the immutable value {@code ").ln();
    __out("}").ln();
    __dl();
    if ($if(type.getEquivalenceAttributes())) {
      __dl();
      __out(" with attribute values");
    }
    __dl();
    __out(".*").ln();
    __out(" * @return A string representation of the value"}.ln();
    __out(" */").ln();
    __out("@Override").ln();
    __out("public String toString() {"}.ln();
    __dl();
    if ($if($not, type.getEquivalenceAttributes())) {
      __dl();
      __ln();
      __out(" return generateToString;");
      __ln();
      __dl();
    }
  }
}
if ($if(type.isAnnotationType())) {
  $.dl();$.ln();
  $.out("  return \"@");
  ${__, type.name()};
  $.out("\"\"\".ln();
  $.out("  ");
}

} else {
  $.dl();$.ln();
  $.out("  return \"\"\";
  ${__, type.name()};
  $.out("\{"\"\".ln();
  $.out("  ");

} $.dl();$.ln();
} else if ($if(type.isGenerateJdkOnly())) {
  $.dl();$.ln();
  $.out("  ");
  $.dl();
  if ($if(type.hasOptionalAttributes())) {
    $.dl();$.ln();
    $.out("  ");
    ${__, flag.set()};
    $.dl();$.ln();
    $.out("  java.lang.StringBuilder builder = new java.lang.StringBuilder(";\n    $.dl();
    if ($if(type.isAnnotationType())) {
      $.dl();$.out("\"@\"\"");
      ${__, type.name()};
      $.out("\"\"\"");
    }
    else {
      $.dl();$.out("\"\"");
      ${__, type.name()};
      $.out("\"\"\"");
    }
  }
  $.dl();$.out("\"\".ln();
  $.out("  ");
  final org.immutables.generator.Templates.Invokable startLen = new
  org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      $.dl();final org.immutables.generator.Templates.Invokable startLen = this;
      ${__, output.length, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
if ($if(type.isAnnotationType())) {
  __.dl();__.out("@");
  __.out("(");
} else {
  __.dl();__$_.type.name();
  __.out("[");
}

{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : Sin(type.getEquivalenceAttributes())) {
  __.dl();__.ln();
  __.out(" ");
  if ($if(v.isRedactedCompletely())) {
    __.dl();__.ln();
    __.out(" ");
  } else if ($if(v.isEncoding())) {
    __.dl();__.ln();
    __.out(" ");
  }
  if ($if($(not, _it1.first))) {
    __.dl();$.ln();
    if ($if(flag.is)) {
      __.dl();__.out("if (builder.length() > ");
      __.out(" ");
      __.dl();__.out("builder.append(", ");
    }
    __.dl();$.clear();
    __.ln();
    __.out(" builder.append(");
    final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
    final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new org.immutables.generator.Templates.Fragment(0) {
      @Override public void run(org.immutables.generator.Templates.Invokation __) {

    }
    __.dl();$.flag.clear();
    __.ln();
    __.out(" builder.append(");
    __.out(" ");
    __.dl();$.=\"\".append(");
    final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
    @Override public void run(Invokation __) {


if ($if(a_maybeMasked_1900495401.getRedactedMask())) {
    $(__, literal.string, a_maybeMasked_1900495401.getRedactedMask());
} else {
    $(__, value_maybeMasked_1900495401);
}

if ($if(v.isArrayType())) {
    $(__, literal.string, v);
} else if ($if($(not, _it1.first))) {
    if ($if(flag.is)) {
        $(__, startLen);
        $(__, flag.clear());
    }
    $(__, v.names.raw);
    $(__, "=").append();
}

{final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
final org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        $(__, rr.string(), v);
        $(__, literal.string, a_maybeMasked_1900495401.getRedactedMask());
        $(__, literal.string, v);
        };
    }
}
} else {
    __.dl();$(__, value_maybeMasked_1900495401);
}

___.dl();

___._.ln();
___._.out("    ");
} else if ($if($(v.isJdkOptional(), or, v.isNullable())) {
    __.dl();___.ln();
    ___._.out("    ");
$(___. v.name());
    ___._.out(" != null\{\}").ln();
    ___._.out("    ");
    __.dl();
    if ($if(${not, _it1.first})) {
        __.dl();___._.dl();
        if ($if(flag.is)) {
            __.dl();___._.out("if (builder.length() > ");
            ___._.out("\{\}");
            __.dl();
            ___._.out("builder.append(");___._.append(";");
        }
    }
    ___._.out("builder.append(\\n, \n");
}

___._.ln();
___._.out("    ");
$(___. v.names.raw);
    ___._.out("=").append({final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new
org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __.dl();final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = this;
        ___._.dl();
    }));___._.dl();
    if ($if(a_maybeMasked_1900495401.getRedactedMask())) {
        ___._.dl();$(___. literal.string, a_maybeMasked_1900495401.getRedactedMask());
    } else {
        ___._.dl();$(___. value_maybeMasked_1900495401);
    }
}

___._.dl();
___._.out("    ");
} else if ($if($(v.isJdkOptional(), or, v.isNullable())) {
    __.dl();___.ln();
    ___._.out("    ");
$(___. v.name());
    ___._.out(" != null\{\}").ln();
    ___._.out("    ");
    __.dl();
    if ($if(${not, _it1.first})) {
        __.dl();___._.dl();
        if ($if(flag.is)) {
            __.dl();___._.out("if (builder.length() > ");
            ___._.out("\{\}");
            __.dl();
            ___._.out("builder.append(");___._.append(";");
        }
    }
    ___._.out("builder.append(\\n, \n");
}

___._.ln();
___._.out("    ");
$(___. v.names.raw);
    ___._.out("=").append({final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new
org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __.dl();final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = this;
        ___._.dl();
    }));___._.dl();
    if ($if(a_maybeMasked_1900495401.getRedactedMask())) {
        ___._.dl();$(___. literal.string, a_maybeMasked_1900495401.getRedactedMask());
    } else {
        ___._.dl();$(___. value_maybeMasked_1900495401);
    }
}

___._.dl();
___._.out("    ");
}
__out("  }”).ln();
__out("  ");
} else if ($if(v.isOptionalType())) {
__dl();__ln();
__out("  if (");
$(__, v.name());
__out(".");
{final org.immutables.value.processor.meta.ValueAttribute a_optionalPresent_767352996 = $cast(v);
__dl();
if ($if($(a_optionalPresent_767352996.isFugueOptional(), or,
a_optionalPresent_767352996.isJavaslangOptional()))) {
__dl();__out("isDefined");
}
else {
__dl();__out("isPresent");
}
__dl();__out("()”);
}
__out("  ");ln();
__out("  ");
__dl();
if ($if($not, _it1.first)) {
__dl();__dl();
if ($if(flag.is)) {
__dl();__out("if (builder.length() > ");
$(__, startLen);
__out("  ");
}
__dl();__out("builder.append(", ");
}
__dl();__out("builder.append(", \"\"\");
}
__dl();__ln();
__out("  builder.append(\"\")
$(__, v.names.raw);
__out("=").append(";
{final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new
org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
__dl();final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = this;
$(__, v.name());
__out(".");
$(__, optionalGet, v);
__dl();
} };__dl();__dl();
```java
if ($if(a_maybeMasked_1900495401.getRedactedMask())) {
    __.dl();$(__, literal.string, a_maybeMasked_1900495401.getRedactedMask());
} else {
    __.dl();$(__, value_maybeMasked_1900495401);
}
___.dl();
___.out(";").ln();
___.out("");.ln();
___.out(" ");
}
else {
    __.dl();___.ln();
    ___.out(" ");
    __.dl();
    if ($if($not, _it1.first)) {
        __.dl();___.dl();
        if ($if(flag.is)) {
            __.dl();__.out("if (builder.length() > ");
            $(__, startLen);
            __.out(" ");
        }
        __.dl();__.out("builder.append(", ");
    }
    __.dl();___.out("builder.append(\", \")");
}
___.dl();$(__, flag.clear());
___.ln();
___.out(" builder.append(\" ");
$(__, v.names.raw);
___.out("\"=\")
    append(";\n    {final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
        final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new
        org.immutables.generator.Templates.Fragment(0) {
            @Override public void run(org.immutables.generator.Templates.Invokation __) {
                __.dl();final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = this;
                $(__, v.name());
                __.dl();
            }
        });___.dl();___.dl();
        if ($if(a_maybeMasked_1900495401.getRedactedMask())) {
            __.dl();$(__, literal.string, a_maybeMasked_1900495401.getRedactedMask());
        } else {
            __.dl();$(__, value_maybeMasked_1900495401);
        }
    }
```
```java
__out("   ");
}
}
}

if ($if(v.isArrayType())) {
__dl();__ln();
__out("   + ");
__dl();
if ($if($not, _it1.first)) {
__dl();__out(" , ");
}
__dl();$___.v.names.raw();
__out("=" + ");
{final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
__dl();final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = this;
$___.v.name();
__out("\n");
__dl();
});__dl();__dl();
if ($if(a_maybeMasked_1900495401.getRedactedMask())) {
__dl();$___.literal.string, a_maybeMasked_1900495401.getRedactedMask();
}
}
}

}
}
}
}

if ($if(v.isEncoding())) {
__dl();__ln();
__out("   + ");
__dl();
if ($if($not, _it1.first)) {
__dl();__out(" , ");
}
__dl();$___.v.names.raw();
__out("=" + ");
{final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
__dl();final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = this;
__out("\n");
}```
$(__, rr.string(), v);
  __out("\n");
  __dl();
})}; __dl(); __dl();
if ($if(a_maybeMasked_1900495401.getRedactedMask()) {
  __dl(); $(__, literal.string, a_maybeMasked_1900495401.getRedactedMask());
}) else {
  __dl(); $(__, value_maybeMasked_1900495401);
}
__dl();
}
__ln();
__out("      ");
}
else {
  __dl(); __ln();
  __out("      + ");
  __dl();
  if ($if($(not, _it1.first))) {
    __dl(); __out(" , ");
  }
  __dl(); $(__, v.names.raw);
  __out(" =" + ");
  [final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
   final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new
    org.immutables.generator.Templates.Fragment(0) {
      @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __dl(); final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = this;
        $(__, v.name());
        __dl();
      }}; __dl(); __dl();
  if ($if(a_maybeMasked_1900495401.getRedactedMask()) {
    __dl(); $(__, literal.string, a_maybeMasked_1900495401.getRedactedMask());
  }) else {
    __dl(); $(__, value_maybeMasked_1900495401);
  }
  __dl();
}
__ln();
__out("      ");
}
```java
__out("    ");
__dl();__it1.index++;
__it1.first = false;
}
__dl();__ln();
__out("    + ");
__dl();
if ($if(type.isAnnotationType())) {
__dl();__out("")";}
else {
__dl();__out("" "{";}

}
__dl();__out(";").ln();
__out(" ");
}
__dl();__ln();

} else {
__dl();__ln();
__out(" return ");
$(__, type.typeMoreObjects());
__out(".toStringHelper\{";)
__dl();
if ($if(type.isAnnotationType())) {
__dl();__out("@";)

}
__dl();$(__, type.name());
__out("\"");ln();
__out(" .omitNullValues()\"");ln();
__out(" ");
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getEquivalenceAttributes())) {
__dl();__ln();
__out(" ");
__dl();
if ($if(v.isRedactedCompletely())) {
__dl();__dl();__ln();
__out(" ");
} else if ($if(v.isEncoding())) {
__dl();__ln();
__out(" .add\"\";)
$(__, v.names.raw);
__out("", ");
{final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
```
final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new org.immutables.generator.Templates.Invokable(value_maybeMasked_1900495401 = this);
    __dl();
    @Override public void run(org.immutables.generator.Templates.Invocation __) {
        __dl();
        final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = this;
        $(__, rr.string(), v);
        __dl();
        if ($if(a_maybeMasked_1900495401.getRedactedMask())) {
            __dl();
            $(__, literal.string, a_maybeMasked_1900495401.getRedactedMask());
        } else {
            __dl();
            $(__, value_maybeMasked_1900495401);
        }
        __dl();
        __.out(""").ln();
        __.out(" ");
    } else if ($if(v.isArrayType())) {
        __dl();
        __.out("\n");
        __.out(" ");
        $(__, v.names.raw);
        __.out("", ");
        (final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
        final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new org.immutables.generator.Templates.Invokable(value_maybeMasked_1900495401 = this);
        __dl();
        @Override public void run(org.immutables.generator.Templates.Invocation __) {
            __dl();
            final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = this;
            $(__, v.name());
            __dl();
            if ($if(a_maybeMasked_1900495401.getRedactedMask())) {
                __dl();
                $(__, literal.string, a_maybeMasked_1900495401.getRedactedMask());
            } else {
                __dl();
                $(__, value_maybeMasked_1900495401);
            }
            __dl();
            __.out(""").ln();
            __.out(" ");
        } else if ($if(v.isJdkOptional())) {
            __dl();
            __.out("\n");
            __.out(" ");
            $(__, v.names.raw);
$(__, v.names.raw);
__out("","");
{final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
 final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new
org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invocation __) {
    __dl();final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = this;
    $(__, v.name());
    __out(".");
    $(__, optionalPresent, v);
    __out(" ? ");
    $(__, v.name());
    __out(".");
    $(__, optionalGet, v);
    __out(" : null");
    __dl();
  }};__dl();__dl();
if ($if(a_maybeMasked_1900495401.getRedactedMask())) {
  __dl();$__literals.string, a_maybeMasked_1900495401.getRedactedMask());
} else {
  __dl();$__literals, value_maybeMasked_1900495401);
}
__dl();
}
__out(" ").ln();
__out(" ");
} else {
  __dl();__ln();
  __out(" .add("");
  $(__, v.names.raw);
  __out("", "");
  {final org.immutables.value.processor.meta.ValueAttribute a_maybeMasked_1900495401 = $cast(v);
   final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = new
org.immutables.generator.Templates.Fragment(0) {
   @Override public void run(org.immutables.generator.Templates.Invocation __) {
     __dl();final org.immutables.generator.Templates.Invokable value_maybeMasked_1900495401 = this;
     $(__, v.name());
     __dl();
   }};__dl();__dl();
if ($if(a_maybeMasked_1900495401.getRedactedMask())) {
  __dl();$__literals, a_maybeMasked_1900495401.getRedactedMask());
} else {
  __dl();$__literals, value_maybeMasked_1900495401);
org.immutables.generator.Templates.Invokable generateDerivedConstruction() { return
generateDerivedConstruction; }
private final org.immutables.generator.Templates.Invokable generateDerivedConstruction = new
FragmentDispatch(2, 47);
void _t47__generateDerivedConstruction(org.immutables.generator.Templates.Invokation __) {
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final java.lang.Iterable<org.immutables.value.processor.meta.ValueAttribute> constructorArgs = $cast(__.param(1));
  final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
  for (final org.immutables.value.processor.meta.ValueAttribute a : $in(type.getImplementedAttributes())) {
    if ($if($(a.isGenerateDefault, or, a.isGenerateDerived))) {
      if ($if($(a.isGenerateDerived, andnot, type.isGenerateSafeDerived()))) {
        this.
        __, a.name());
      } else {
        final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
      }
    } else {
      final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
      for (final org.immutables.value.processor.meta.ValueAttribute a : $in(type.getImplementedAttributes())) {
        if ($if($(a.isGenerateDefault, or, a.isGenerateDerived))) {
          final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
        } else {
          final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
        }
      }
    }
  }
}
```java
public void run(Templates.Invokation __) {
  if ($if(a.isEncoding())) {
    __.dl();
    __.out(" = ");
    __.dl();
    new org.immutables.generator.Templates.Fragment(0) {
      @Override public void run(Templates.Invokation __) {
        __.dl();
        __.out(".");
        __.dl();
        __.out("()");
        __.dl();
      }
    };
    __.dl();
    __.ln();
    __.out(";").ln();
    __.out(" ");
  } else if ($if(a.isEncoding())) {
    __.dl();
    __.ln();
    __.dl();
    __.ln();
    __.dl();
    __.ln();
    __.dl();
    final org.immutables.generator.Templates.Invokable shim = new
    org.immutables.generator.Templates.Fragment(0) {
      @Override public void run(Templates.Invokation __) {
        final org.immutables.generator.Templates.Invokable shim = this;
        __.dl();
        __.ln();
        __.dl();
        __.ln();
        __.dl();
      }
    };
    final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    for (final org.immutables.value.processor.meta.ValueAttribute a : $in(type.getImplementedAttributes())) {
      if ($if($(a.isGenerateDefault, or, a.isGenerateDerived))) {
        __.dl();
        __.ln();
        __.dl();
        __.ln();
        if ($if(a.isEncoding())) {
          __.dl();
          __.ln();
          __.dl();
          __.ln();
          $(__, rr.shimAssignExtract(), a, shim);
          __.ln();
        }
      }
    }
  }
```

org.immutables.generator.Templates.Invokable generateAfterConstruction() { return generateAfterConstruction; }
private final org.immutables.generator.Templates.Invokable generateAfterConstruction = new FragmentDispatch(2, 48);
void _t48__generateAfterConstruction(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.value.processor.meta.ValueType type = ___.cast(0).
    final java.lang.Boolean usingBuilder = __.param(1).
    __.dl();___.ln();
    __.out("  ");
    __.dl();
    if (__.isUsePrehashed()) {
        __.dl();___.ln();
        __.out("this.hashCode = ");
        __.dl();
        if (__.isHashCodeDefined) {
            __.dl();___.out("super.hashCode()");
        } else {
            __.dl();$(___.disambiguateAccessor, type, "computeHashCode");
            __.out("()");
        }
    } else {
        __.dl();$___.out("super.hashCode()");
    }
    __.dl();___.out(" ");
    __.dl();
}
if ($if(type.isGenerateOrdinalValue())) {
    __.dl();__.ln();
    __.out("this.ordinal = 0;").ln();
    __.out("  ");
    __.dl();
    if ($if(usingBuilder)) {
        __.dl();__.ln();
        __.out("this.domain = builder.domain;").ln();
        __.out("  ");
    } else {
        __.dl();__.ln();
        __.dl();__.ln();
        __.out("this.domain = Domain.get();").ln();
        __.out("  ");
    }
} else {
    __.dl();__.ln();
    __.dl();__.ln();
    __.out("this.domain = Domain.get();").ln();
    __.out("  ");
}

if ($if(type.isGenerateSafeDerived())) {
    __.dl();__.ln();
    __.out("  ");
    __.dl();
    $(__, disambiguateField, type, "initShim");
    __.out(" = null;").ln();
    __.out("  ");
}

org.immutables.generator.Templates.Invokable generateReturnCopy() { return generateReturnCopy; }
private final org.immutables.generator.Templates.Invokable generateReturnCopy = new FragmentDispatch(3, 49);
void _t49__generateReturnCopy(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    final org.immutables.value.processor.meta.ValueAttribute modified = $cast(__.param(1));
    final java.lang.String expression = __.param(2).toString();
    $(__, generateReturnCopyRaw, type, modified.name(), expression);
    __.dl();
};
org.immutables.generator.Templates.Invokable generateReturnCopyRaw() { return generateReturnCopyRaw; }
private final org.immutables.generator.Templates.Invokable generateReturnCopyRaw = new FragmentDispatch(3, 50);

void _t50__generateReturnCopyRaw(org.immutables.generator.Templates.Invokation __) {
    __.dl();
    final java.lang.String modified = __.param(1).toString();
    final java.lang.String expression = __.param(2).toString();
    __.ln();
    __.out("return ");
    { final org.immutables.value.processor.meta.ValueType type_validated_1881291508 = $cast(type);
      final java.lang.Boolean qualified_validated_1881291508 = $cast($false);
      final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
            final org.immutables.value.processor.meta.ValueAttribute a : $in(type.getImplementedAttributes()) {
                if ($if($(not, a.isGenerateDerived))) {
                    if ($if($(not, _it1.first))) {
                        __.dl();
                        __.out("this.");
                    }
                }
            }
        }
    }
    __.out("new ");
    $(__, type.typeImmutable().relativeRaw());
    $(__, type.generics().diamond());
    __.out("(");
    __.out(linesShortable, new org.immutables.generator.Templates.Fragment(0) { @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __.dl();
        __.out("    ");
        __.dl();
        if ($if(type.isSynthCopyConstructor())) {
            __.dl();
            __.out("this.");
            __.ln();
            __.out("   ");
        }
    }
    __.dl();
    __.out("    ");
    __.dl();
    if ($if($not, _it1.first)) {
        __.dl();
        __.out("    ");
        __.ln();
        __.out("   ");
    }
    } __.dl();
    for (final org.immutables.value.processor.meta.ValueAttribute a : $in(type.getImplementedAttributes())) {
        if ($if($not, a.isGenerateDerived)) {
            __.dl();
            if ($if($not, _it1.first)) {
                __.dl();
                __.out("    ");
                __.ln();
                __.out("   ");
            } else {
                __.dl();
                __.out("this.");
            }
        }
    }
}
if ($if(a.hasVirtualImpl())) {
    __.dl();$(__, a.names.get);
    __.out("()\n")
} else {
    __.dl();$(__, a.name());
    }
    __.dl();
    }
    __.dl();___.dl();_it1.index++;
    _it1.first = false;
}]
    __.dl();___.dl();
    __.out("\n")
    __.dl();
}}};___.dl();___.dl();
if ($if(type_validated_1881291508.isUseValidation())) {
    __.dl();___.dl();
    if ($if(qualified_validated_1881291508)) {
        __.dl();$(__, type_validated_1881291508.typeImmutable().relativeRaw());
        __.out(".\n")
    } else {
        __.dl();$(__, expression_validated_1881291508);
    }
    __.dl();
    __.out("\n")
};___.dl();___.dl();

org.immutables.generator.Templates.Invokable generateReturnCopyContextual() { return
generateReturnCopyContextual; }
private final org.immutables.generator.Templates.Invokable generateReturnCopyContextual = new
FragmentDispatch(2, 51);
void _t51__generateReturnCopyContextual(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    final org.immutables.value.processor.meta.ValueAttribute modified = $cast(__.param(1));
    __.ln();
    {final org.immutables.value.processor.meta.ValueType type_generateReturnCopy_879511243 = $cast(type);
final org.immutables.value.processor.meta.ValueAttribute modified_generateReturnCopy_879511243 = $cast(modified);
final java.lang.String expression_generateReturnCopy_879511243 = $cast("newValue");
$(__, generateReturnCopyRaw, type_generateReturnCopy_879511243, modified_generateReturnCopy_879511243.name(), expression_generateReturnCopy_879511243);

}
__ln();
__dl();
};

org.immutables.generator.Templates.Invokable generateReturnBuilderConstructed() { return generateReturnBuilderConstructed; }
private final org.immutables.generator.Templates.Invokable generateReturnBuilderConstructed = new FragmentDispatch(1, 52);
void _t52__generateReturnBuilderConstructed(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  __ln();
  __out("return ");
  {final org.immutables.value.processor.meta.ValueType type_validated_1881291508 = $cast(type);
   final java.lang.Boolean qualified_validated_1881291508 = $cast($$true);
   final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = new
generateReturnBuilderConstructed; }
   final java.lang.Boolean qualified_validated_1881291508 = $cast($$true);
   final org.immutables.generator.Templates.Invokable generateReturnBuilderConstructed = new

generateReturnBuilderConstructed; }
   @Override public void run(org.immutables.generator.Templates.Invokation __) {
     __dl();final org.immutables.generator.Templates.Invokable expression_validated_1881291508 = this;
     __out("new ");
     $(__, type.typeImmutable().relativeRaw());
     $(__, type.generics().diamond());
     __out("(");
     $(__, output.linesShortable, new org.immutables.generator.Templates.Fragment(0) {
       @Override public void run(org.immutables.generator.Templates.Invokation __) {
         __dl();__ln();
         __out("    ");
         __dl();
         if ($if(type.isSynthCopyConstructor())) {
           __dl();__out("null,").ln();
           __out("    ");
         }
         __dl();{final org.immutables.generator.Templates.Iteration _it1 = new
generateReturnBuilderConstructed; }
         for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getImplementedAttributes())) {
           if ($if($(not, v.isGenerateDerived))) {
             __dl();__dl();
             if ($if($(not, _it1.first))) {
               __dl();__out("","").ln();
               __out("    ");
             }
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```java
__d1();$(__, valueFromBuilder, v, """);
__d1();_it1.index++;
_it1.first = false;
});
__d1();__d1();
});};
__d1();__d1();__out(""");
__d1();}
if ($if(type_validated_1881291508.isUseValidation())) {
__d1();__d1();
if ($if(qualified_validated_1881291508)) {
$__(__, type_validated_1881291508.typeImmutable().relativeRaw());
__out(".");
}
__d1();__out("validate(");
$(__, expression_validated_1881291508);
__out(""));
} else {
__d1();$(__, expression_validated_1881291508);
}
__d1();
__d1();__out(";");ln();
__d1();  
org.immutables.generator.Templates.Invokable generateCopyMethods() { return generateCopyMethods; }
private final org.immutables.generator.Templates.Invokable generateCopyMethods = new FragmentDispatch(1, 53);
void _t53__generateCopyMethods(org.immutables.generator.Templates.Invokation __) {
__d1();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
__ln();
__d1();
if ($if(type.isUseCopyMethods())) {
__d1();__ln();
__out(" ");
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())) {
__d1();__ln();
__out(" ");
__d1();
if ($if(v.isEncoding())) {
__d1();__ln();
$(__, rr.copyMethods(), v, new org.immutables.generator.Templates.Fragment(0) {
````
@Override public void run(org.immutables.generator.Templates.Invokation __) {
    __.dl();___.ln();
    $(__, generateReturnCopyContextual, type, v);
    __.ln();
    __.dl();
} });
    __.ln();
    __.out(" ");
} else if ($if(v.isArrayType())) {
    __.dl();___.ln();
    __.ln();
    __.out("/**").ln();
    __.out(" * Copy the current immutable object with elements that replace the content of ");
    {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
     $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
    }
    __.out(".").ln();
    __.out(" * The array is cloned before being saved as attribute values.").ln();
    __.out(" * @param elements The non-null elements for ");
    $(__, v.name());
    __.ln();
    __.out(" * @return A modified copy of { @code this } object").ln();
    __.out(" */").ln();
    {final org.immutables.value.processor.meta.ValueAttribute a_varargsSafety_1368213209 = $cast(v);
        __.dl();
        if ($if($a_varargsSafety_1368213209.isNonRawElementType(), or,
            a_varargsSafety_1368213209.hasTypeVariables)) {
            __.dl();___.out("@SafeVarargs @SuppressWarnings("varargs")");
        }
    }
    __.dl();
    __.out("public final ");
    $(__, type.typeImmutable().relative());
    __.out(" ");
    $(__, v.names.with);
    __.out("("");
}
$(\_, v.@nullability());
$(\_, v.@getElementType());
__out("... elements ");ln();
__out(" ");
$(\_, v.@nullabilityLocal());
$(\_, immutableImplementationType, v);
__out(" new\$newValue = ");
__dl();
if ($(v.@isNullable()) {__dl();__out("elements == null ? null : ");
}
__dl();__out("elements.clone();").ln();
__out(" ");
$(\_, generateReturnCopyContextual, type, v);
__ln();
__out("} ").ln();
__out(" ");
} else if ($(v.@isCollectionType()) {__dl();__ln();
__ln();
__out("/** 
 * Copy the current immutable object with elements that replace the content of ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$(\_, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out(".").ln();
__out(" * @param elements The elements to set").ln();
__out(" * @return A modified copy of [@code this] object").ln();
__out(" */").ln();
{final org.immutables.value.processor.meta.ValueAttribute a_varargsSafety_1368213209 = $cast(v);
__dl();
if ($(a_varargsSafety_1368213209.@isNonRawElementType(), or,
a_varargsSafety_1368213209.@hasTypeVariables)) {__dl();__out("@SafeVarargs @SuppressWarnings("varargs\$")");
}
__dl();
}
__ln();
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($(a_deprecation_286924011.@deprecated)) {__dl();__out("@Deprecated");
}
__dl();
```java
@override public void run(org.immutables.generator.Templates.Invokation __) {
  __.dl();___.out("wrappedList");
  __.dl();
}));
  __.out(";").ln();
  __.out(" ");
}
} else {
  __.dl();___.ln();
  __.out(" ");
$(__, v.atNullabilityLocal());
$(__, immutableImplementationType, v);
  __.out(" newValue = ");
$(__, valueFromValue, v, new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __.dl();___.dl();
    if ($if(v.wrapArrayToIterable())) {
      __.dl();$(__, arrayAsList, v, "elements");
    } else {
      __.dl();___.out("elements");
    }
  __.dl();___.dl();
}));
  __.out(";").ln();
  __.out(" ");
}
  __.dl();___.ln();
  __.out(" ");
$(___.generateReturnCopyContextual, type, v);
  ___.ln();
  __.out(" ").ln();
  ___.ln();
  __.out("/#").ln();
  __.out(" * Copy the current immutable object with elements that replace the content of ");
  {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
    $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
  }
  __.out(".").ln();
  __.out(" * A shallow reference equality check is used to prevent copying of the same value by returning 
  { @code this }.").ln();
  __.out(" * @param elements An iterable of ");
    $(__, v.name());
  __.out(" elements to set").ln();
  __.out(" * @return A modified copy of { @code this } object").ln();
```

__out(" * Copy the current immutable object by setting a <i>present</i> value for the optional ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}

__out(" attribute.").ln();
__out(" * @param value The value for ");
$__ v.name();
__dl();
if ($if(v.isOptionalAcceptNullable())) {
__dl();__out(" , {@code null} is accepted as {@code ");
{final org.immutables.value.processor.meta.ValueAttribute a_optionalEmpty_1867206284 = $cast(v);
$__ a_optionalEmpty_1867206284.getRawType();
__out(".");
__dl();
if ($if(a_optionalEmpty_1867206284.isJdkOptional())) {
__dl();__out("empty");
} else if ($if($(a_optionalEmpty_1867206284.isFugueOptional(), or,
a_optionalEmpty_1867206284.isJavaslangOptional()))) {
__dl();__out("none");
}
} else {
__dl();__out("absent");
}
__dl();__out("()");
}
__out("}");

__dl();__ln();
__out(" * @return A modified copy of {@code this} object").ln();
__out(" */").ln();
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__dl();
if ($if(a_deprecation_286924011.deprecated)) {
__dl();__out("@Deprecated");
}
__ln();
__out("public final ");
$__ type.typeImmutable().relative();
__out(" ");
$__ v.names.with();
__out("(");
}
```java
{final org.immutables.value.processor.meta.ValueAttribute a_unwrappedOptionalType_1615308684 = $cast(v);

if (Sif($a_unwrappedOptionalType_1615308684.isOptionalType(), and,
a_unwrappedOptionalType_1615308684.isOptionalAcceptNullable())

{final org.immutables.value.processor.meta.ValueAttribute v_maybeCopyOf_1779456614 = $cast(v);
final org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 = new
org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
        __dl();final org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 =
this;

        $(__, requireNonNull, type);
        __out("(value, "");
        __out(value);
        __dl();
    }
});final org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 =
new
org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 =
new
```

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} else {
  __.dl();$(__, expression_maybeCopyOf_1779456614);
}

___.dl();
}
___.out(";").ln();
___.out(" ");

}
___.dl();___.ln();
___.out(" ");
___.dl();

if ($if($(v.hasSimpleScalarElementType(), andnot, v.isEnumType()))) {
  ___.dl();___.ln();
  ___.out(" if (");
$(__, objectsEqual, type);
___.out("(this.");
$(__, v.name());
___.out(" == newValue) return this;").ln();
___.out(" ");
}

} else {
  ___.dl();___.ln();
  ___.out(" if (this.");
$(__, v.name());
___.out(" == newValue) return this;").ln();
___.out(" ");

}
___.dl();___.ln();
___.out(" ");
$(__, generateReturnCopyContextual, type, v);
___.ln();

} else {
  ___.dl();___.ln();
  ___.out(" ");
$(__, immutableImplementationType, v);
___.out(" newvalue = ");
{final org.immutables.value.processor.meta.ValueAttribute a_optionalOf_332927268 = $cast(v);
$(__, a_optionalOf_332927268.getRawType());
___.out(".");
___.dl();

if ($if($not, a_optionalOf_332927268.isOptionalAcceptNullable())) {
  ___.dl();___.dl();
  if ($if($a_optionalOf_332927268.isFugueOptional(), or, a_optionalOf_332927268.isJavaslangOptional())))

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__.dl();__.out("some");

} else {
  __.dl();__.out("of");
}

__.dl();} else if ($if(a_optionalOf_332927268.isJdkOptional())) {
  __.dl();__.out("ofNullable");
} else if ($if(a_optionalOf_332927268.isFugueOptional())) {
  __.dl();__.out("option");
} else if ($if(a_optionalOf_332927268.isJavaslangOptional())) {
  __.dl();__.out("of");
}

} else {
  __.dl();__.out("fromNullable");
}

__.dl();}

__.out("(");
{final org.immutables.value.processor.meta.ValueAttribute v_maybeCopyOf_1779456614 = $cast(v);
final org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 = new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.generator.Templates.Invokable expression_maybeCopyOf_1779456614 = this;
    __.out("value");
    __.dl();
  }
};__.dl();___.dl();
if ($if(v_maybeCopyOf_1779456614.isGenerateImmutableCopyOf)) {
  __.dl();__.out("immutableCopyOf(");
  $(_, expression_maybeCopyOf_1779456614);
  __.out(")");
}

} else {
  __.dl();$(_, expression_maybeCopyOf_1779456614);
}

__.dl();
__.out(";");ln();
__.out(" ");
__.dl();
if ($if($(v.hasSimpleScalarElementType(), andnot, v.isEnumType()))) {
  __.dl();___.ln();
  __.out(" ");
  __.dl();
  if ($if(type.isGeneratePrivateNoargConstructor())) {
    __.dl();___.ln();
  } else {
    __.dl();
    __.out("class");
    __.dl();
  }
} else {
  __.dl();
  __.out("class");
  __.dl();
  if ($if(v.isSimpleCollectionType(), andnot, v.isEnumType())) {
    __.dl();___.ln();
    __.out("class");
    __.dl();
  } else {
    __.dl();
    __.out("class");
    __.dl();
  }
}
"if (";
\$(__, objectsEqual, type);
\$(__, (this.");
\$(__, v.name());
\$(__, (newValue)) return this;").ln();
\$(__, " ");
}
\$(__, v.name());
\$(__, (this.");
\$(__, v.name());
\$(__, (equals(newValue)) return this;").ln();
\$(__, " ");
\$(__, v.name());
\$(__, (this.");
\$(__, v.name());

{final org.immutables.value.processor.meta.ValueAttribute a_optionalPresent_767352996 = $cast(v);
\$(__, (isDefined)
}
\$(__, (isPresent);
}
\$(__, ("");

{final org.immutables.value.processor.meta.ValueAttribute a_optionalGet_1683307643 = $cast(v);
\$(__, (getAs)
$(__, toUpper, a_optionalGet_1683307643.getElementType());
}
\$(__, (get);
```java
  __.dl();___.out("()").

  __.dl();___.in();
  __.out(" = value) return this;"),ln();
  __.out(" ");

  __.dl();___.ln();
  __.out(" ");
$(__, generateReturnCopyContextual, type, v);
  __.ln();

  __.dl();___.ln();
  __.out(" ").ln();
  __.ln();
  __.out("/**");ln();
  __.out(" * Copy the current immutable object by setting an optional value for the ");
  {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
    $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
  }

  __.out(" attribute.").ln();
  __.dl();
  if ($if($(v.isJdkOptional(), and, v.hasSimpleScalarElementType()))) {
    __.dl();___.ln();
    __.out(" * An equality check is used on inner nullable value to prevent copying of the same value by returning
    [@code this]."),ln();
  } else if ($if(v.isJdkOptional())) {
    __.dl();___.ln();
    __.out(" * A shallow reference equality check is used on unboxed optional value to prevent copying of the same value by returning
    [@code this]."),ln();
  } else if ($if(v.hasSimpleScalarElementType())) {
    __.dl();___.ln();
    __.out(" * An equality check is used to prevent copying of the same value by returning
    [@code this]."),ln();
  } else {
    __.dl();___.ln();
    __.out(" * A shallow reference equality check on the optional value is used to prevent copying of the same value by returning
    [@code this]."),ln();
  }

  __.dl();___.ln();
  __.out(" * @param optional A value for ");
$(__, v.name());
  ___.ln();
  __.out(" * @return A modified copy of
    [@code this] object"),ln();
```
public final ${type.typeImmutable().relative()} ${v.names.with}(${v.getRawType()});

if ($if(${not, v.isJdkSpecializedOptional()})) {
  ${__}.out("<");
  ${__}.out(">");
}

${__}.out(" optional ").ln();

${__}.out(" value = ");
${__}.valueFromValue(v, "optional").ln();

if ($if(v.isJdkOptional())) {
  ${__}.ln();
  ${__}.out(" ");

  if (hasSimpleScalarElementType()) {
    ${__}.ln();
    ${__}.out(" if ");
    $(${__}.objectsEqual, type);
    ${__}.out("(this.");
    $(${__}.v.name());
    ${__}.out("; value) return this;").ln();
    ${__}.out(" ");
  } else {
    ${__}.ln();
    ${__}.out(" if (this.");
  }
} else {
  ${__}.ln();
  ${__}.out(" if ");
  $(${__}.objectsEqual, type);
  ${__}.out("(this.");
  $(${__}.v.name());
  ${__}.out("; value) return this;").ln();
  ${__}.out(" ");
}
$(__, v.name());
  __.out(" == value) return this;").ln();
  __.out(" ");
}
__dl();__ln();

} else {
__dl();__ln();
  __.out(" ");
__dl();
if ($if(v.hasSimpleScalarElementType()) {
  __.dl();__ln();
  __.out(" ");
  __.dl();
if ($if(type.isGeneratePrivateNoargConstructor()) {
    __.dl();__ln();
    __.out(" if (";
    $(__, objectsEqual, type);
    __.out("(this.");
    $(__, v.name());
    __.out(" value)) return this;").ln();
    __.out(" ");
  } else {
    __.dl();__ln();
    __.out(" if (this.");
    $(__, v.name());
    __.out(" equals(value)) return this;").ln();
    __.out(" ");
  }
} else {
  __.dl();__ln();
  __.out(" if (!this.");
  $(__, v.name());
  __.out(" ");
  {final org.immutables.value.processor.meta.ValueAttribute a_optionalPresent_767352996 = $cast(v);
    __dl();
    if ($if($a_optionalPresent_767352996.isFugueOptional(), or,
      a_optionalPresent_767352996.isJavaslangOptional())
       {
      __dl();__out("isDefined");
    } else {
      __dl();__out("isPresent");}
\begin{verbatim}

dl(); out("()");

out("&& !value.");
\{final org.immutables.value.processor.meta.ValueAttribute a_optionalPresent_767352996 = $cast(v);
  dl();
  if ($if($(a_optionalPresent_767352996.isFugueOptional(), or,
        a_optionalPresent_767352996.isJavaslangOptional())) {
    dl(); out("isDefined");
  } else {
    dl(); out("isPresent");
  }
  dl(); out("()");
\}

out(") return this;").ln();
out(" if (this.");
$(\_. v.name());
out(".");
\{final org.immutables.value.processor.meta.ValueAttribute a_optionalPresent_767352996 = $cast(v);
  dl();
  if ($if($(a_optionalPresent_767352996.isFugueOptional(), or,
        a_optionalPresent_767352996.isJavaslangOptional())) {
    dl(); out("isDefined");
  } else {
    dl(); out("isPresent");
  }
  dl(); out("()");
\}

out("&& value.");
\{final org.immutables.value.processor.meta.ValueAttribute a_optionalPresent_767352996 = $cast(v);
  dl();
  if ($if($(a_optionalPresent_767352996.isFugueOptional(), or,
        a_optionalPresent_767352996.isJavaslangOptional())) {
    dl(); out("isDefined");
  } else {
    dl(); out("isPresent");
  }
  dl(); out("()");
\}
\end{verbatim}
}
  __out(" &\& this.");
$(__, v.name());
__out(");
{final org.immutables.value.processor.meta.ValueAttribute a_optionalGet_1683307643 = $cast(v);
__dl();
if (Sif(a_optionalGet_1683307643.isJdkSpecializedOptional())) {
  __dl();__out("getAs");
$(__, toUpper, a_optionalGet_1683307643.getElementType());
} else {
  __dl();__out("get");
}
__dl();__out("()");
}
__out(" == value.");
{final org.immutables.value.processor.meta.ValueAttribute a_optionalGet_1683307643 = $cast(v);
__dl();
if (Sif(a_optionalGet_1683307643.isJdkSpecializedOptional())) {
  __dl();__out("getAs");
$(__, toUpper, a_optionalGet_1683307643.getElementType());
} else {
  __dl();__out("get");
}
__dl();__out("()");
}
__out(" return this;").ln();
__out(" ");
__dl();__ln();
}
__dl();__ln();
__out(" ");
{final org.immutables.value.processor.meta.ValueType type_generateReturnCopy_879511243 = $cast(type);
final org.immutables.value.processor.meta.ValueAttribute modified_generateReturnCopy_879511243 = $cast(v);
final java.lang.String expression_generateReturnCopy_879511243 = $cast("value");
$___.generateReturnCopyRaw, type_generateReturnCopy_879511243,
modified_generateReturnCopy_879511243.name(), expression_generateReturnCopy_879511243);
```java
/___.ln();
__/out("} ").ln();
__/out(" ");
} else if ($if(v.isMapType())) {
__/dl();__/ln();
__/out(" ");
{final org.immutables.generator.Templates.Iteration _it2 = new org.immutables.generator.Templates.Iteration();
final java.lang.String gE = $cast(v.getConsumedElementType());
final java.lang.String uK = $cast(v.getUnwrappedElementType());
final java.lang.String wK = $cast(v.getWrappedElementType());
final java.lang.String uV = $cast(v.getUnwrappedSecondaryElementType());
final java.lang.String wV = $cast(v.getWrappedSecondaryElementType());
__/dl();__/ln();
__/ln();
__/out("/**").ln();
__/out(" * Copy the current immutable object by replacing the ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$___.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__/out(" map with the specified map.").ln();
__/out(" * Nulls are not permitted as keys or values.").ln();
__/out(" * A shallow reference equality check is used to prevent copying of the same value by returning
{ @code this }.").ln();
__/out(" * @param entries The entries to be added to the ");
$___.v.name();
__/out(" map").ln();
__/out(" * @return A modified copy of { @code this } object").ln();
__/out(" */").ln();
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
__/dl();
if ($if(a_deprecation_286924011.deprecated)) {
__/dl();__/out("@Deprecated");
}
__/dl();
}
__/ln();
__/out("public final ");
$(___, type.typeImmutable().relative());
__/out(" ");
$(___, v.names.with);
__/out(" ");
$(___, v.notNullability());
__/dl();
if ($if(v.isMultimapType())) {
__/dl();$(___, guava);
}
```
} __dl__; __out("<");
$___.gE;
__out("", ? extends ");
$___.wV);
__out("> entries) ["].ln();
__out(" if (this.");
$___.v.name());
__out(" == entries) return this;").ln();
__out(" ");
$___.v.isNullabilityLocal());
$___.immutableImplementationType, v);
__out(" newValue = ");
$___.valueFromValue, v, "entries");
__out(";").ln();
__out(" ");
$___.generateReturnCopyContextual, type, v);
__ln();
__out(" ").ln();
__out(" ");
__dl__; _it2.index++;
_it2.first = false;
} __dl__; __ln();
__out(" ");
}
}
__dl__; __ln();
__out("/**");
__out(" * Copy the current immutable object by setting a value for the ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$___.sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__out(" attribute.");ln();
__out(" ");
__dl();
if ($if$(v.isPrimitive(), and, v.isFloatType())) {
__dl__; __ln();
__out(" * A value strict bits equality used to prevent copying of the same value by returning [ @code this]. ");ln();
__out(" ");
} else if ($if($(v.isPrimitive(), or, v.isEnumType()))) {
  __dli();__ln();
  __out(" * A value equality check is used to prevent copying of the same value by returning { @code this }. " ).ln();
  __out(" ");
} else if ($if($(v.hasSimpleScalarElementType(), or, v.isSuppressedOptional()))) {
  __dli();__ln();
  __out(" * An equals check used to prevent copying of the same value by returning { @code this }. " ).ln();
  __out(" ");
}
else {
  __dli();__ln();
  __out(" * A shallow reference equality check is used to prevent copying of the same value by returning { @code this }. " ).ln();
  __out(" ");
}
__dli();__ln();
__out(" * @param value A new value for ");
$___. v.name();
__dli();
if ($if(v.isNullable()) ) {
  __dli();__out(" (can be { @code null }) ");
}
__dli();__ln();
__out(" * @return A modified copy of the { @code this } object ").ln();
__out(" */ ");
{final org.immutables.value.processor.meta.ValueAttribute a_deprecation_286924011 = $cast(v);
  __dli();
  if ( $if(a_deprecation_286924011.deprecated) ) {
    __dli();__out(" @Deprecated ");
  }
}
__dli();
__ln();
__out("public final ");
$___. type.typeImmutable().relative();
__out(" ");
$___. v.names.with;
__out("(");
$___. v.atNullability();
$___. v.getType();
__out("" value ) ");ln();
__out(" ");
__dli();
if ($if(v.isFloat()) ) {
if (Float.floatToIntBits(this.
$.name())) == Float.floatToIntBits(value)) return this;
    
} else if ($if(v.isDouble()) { 
    
} else if ($if(v.isPrimitive(), or, v.isEnumType()) { 
    
} else if ($if(v.hasSimpleScalarElementType(), or, v.isSuppressedOptional)) { 
    
} else { 
    
} if ($if(v.attributeValueType, and, v.typeKind().isRegular()) { 
    
} else if (v.isAttributeBuilder()) { 
    
} final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_valueToBuilder_1442539515 = 
$cast(v.getAttributeBuilderDescriptor());

final org.immutables.generator.Templates.Invokable expression_valueToBuilder_1442539515 = new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
    __.dl(); final org.immutables.generator.Templates.Invokable expression_valueToBuilder_1442539515 = this;
    __.out("value");
    __.dl();
} __.dl();

if ($if(n_valueToBuilder_1442539515.isCopyMethodOnValueInstance()) { __.dl();
    $(__, expression_valueToBuilder_1442539515);
    __.out(",");
    $(__, n_valueToBuilder_1442539515.getQualifiedValueToBuilderMethod());
    __.out("()");
}
else {
    __.dl();
    $(__, n_valueToBuilder_1442539515.getQualifiedValueToBuilderMethod());
    __.out("()");
}

} __.dl();
}
___.out(".");
$(__, v.getAttributeBuilderDescriptor().getBuildMethod());
___.out(";").ln();
___.out(" ");
}
else {
    __.dl();
    $(__, v.getAttributeBuilderDescriptor().getBuildMethod());
    ___.out(";").ln();
    ___.out(" ");
}
else if ($if(v.isPrimitive()) { __.dl();
    $(__, v.getAttributeBuilderDescriptor().getBuildMethod());
    ___.out(";").ln();
    ___.out(" ");
}
else if ($if(v.isPrimitive()) { __.dl();
    $(__, generateReturnCopyContextual, type, v);
    ___.ln();
    ___.out(" ");
}
else if ($if(v.isPrimitive()) { __.dl();
    $(__, generateReturnCopyContextual, type, v);
    ___.ln();
    ___.out(" ");
} else if ($if(v.isPrimitive()) {
    final org.immutables.value.processor.meta.ValueType type_generateReturnCopy_879511243 = $cast(type);
    final org.immutables.value.processor.meta.ValueAttribute modified_generateReturnCopy_879511243 = $cast(v);
final java.lang.String expression_generateReturnCopy_879511243 = $cast("value");
S(__, generateReturnCopyRaw, type_generateReturnCopy_879511243,
modified_generateReturnCopy_879511243.name(), expression_generateReturnCopy_879511243);

}_.ln();
_.out(" ");
} else if ($if(v.isNull()) {  
_.dl();_.ln();  
_.out(" ");  
_.dl();  
if ($if($(v.hasSimpleScalarElementType(), or, v.isSuppressedOptional))) {  
  _.dl();_.ln();  
  _.out(" ");  
  _.dl();_.ln();  
  _.out(" ");  
  _.dl();  
  if ($if($(v.isNull(), or, type.isGeneratePrivateNoargConstructor()))) {  
    _.dl();_.ln();  
    _.out(" ");  
    $(_. objectsEqual, type);  
    _.out("(this.");  
    $(_. v.name());  
    _.out(" = value) return this;").ln();  
    _.out(" ");  
  } else {  
    _.dl();_.ln();  
    _.out(" ");  
    $(_. v.name());  
    _.out(" = value) return this;").ln();  
    _.out(" ");  
  }  
  _.dl();_.ln();  
  _.out(" ");  
  } else {  
    _.dl();_.ln();  
    _.out(" ");  
    $(_. v.name());  
    _.out(" = value) return this;").ln();  
    _.out(" ");  
  }  
  _.dl();_.ln();  
  _.out(" ");  
}  
_.dl();_.ln();  
_.out(" ");
{final org.immutables.value.processor.meta.ValueType type_generateReturnCopy_879511243 = $cast(type);  
final org.immutables.value.processor.meta.ValueAttribute modified_generateReturnCopy_879511243 = $cast(v);  
final java.lang.String expression_generateReturnCopy_879511243 = $cast("value");  
S(__, generateReturnCopyRaw, type_generateReturnCopy_879511243,
modified_generateReturnCopy_879511243.name(), expression_generateReturnCopy_879511243);  
}

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__ln();
__out("   ");

} else {
__dl();__ln();
__out("   ");
$___.v.atNullabilityLocal();
$___.immutableImplementationType, v);
__out(" newValue = ");
$___.valueOfValue, v, "value");
__out(";").ln();
__out("   ");
__dl();

if ($if($(v.hasSimpleScalarElementType(), or, v.isSuppressedOptional)) { 
  __dl();__ln();
  __out("   ");
  __dl();__ln();
  __out("   ");
  __dl();

  if ($if($(v.isNullable(), or, type.isGeneratePrivateNoargConstructor()))) {
    __dl();__ln();
    __out(" if ( ");
    $___.objectsEqual, type);
    __out("(this.");
    $___.v.name());
    __out(" newValueChanged)); return this;").ln();
    __out("   ");
  }

} else {
  __dl();__ln();
  __out(" if (this.");
  $___.v.name());
  __out("newValueChanged)); return this;").ln();
  __out("   ");

  __dl();__ln();
  __out("   ");

} else {
  __dl();__ln();
  __out("   ");

  if ($if($(v.isNullable(), or, type.isGeneratePrivateNoargConstructor()))) {
    __dl();__ln();
    __out(" generateReturnCopyContextual, type, v);
    __ln();
    __out("   ");
  }

  __dl();__ln();
/**
 * Returns a default immutable singleton value of 
 * @return An immutable instance of
 */

public static

() {
  return

()();
}

if ($if(type.isUseConstructor())) {

      

if ($if(type.requiresAlternativeStrictConstructor())) {

  **
  Construct a new immutable { @code }

  

{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {

  **
  The value for the { @code }
if ($if($(not, _it1.first)))
    if ($if(v.requiresAlternativeStrictConstructor()))
        __dl();__out("(");
        $(__, constructorAcceptType, v);
        __out(" )");
    __dl();$(__, v.name());
    __dl();_it1.index++;
    _it1.first = false;
} __dl();__out(";").ln();
__out(" )").ln();
__out(" ");
}
__dl();__ln();
__ln();
__out("/**").ln();
__out(" * Construct a new immutable { @code ");
$(__, type.name());
__out(" } instance.");ln();
$(__, javadocGenerics, type);
__ln();
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments()))
    __dl();__ln();
    __out(" * @param ");
    $(__, v.name());
    __out(" The value for the { @code ");
    $(__, v.name());
    __out(" } attribute");
    __dl();
    if ($if(v.isNullable()))
        __dl();__out(" can be { @code null");
    }
    __dl();__ln();
    __dl();_it1.index++; _it1.first = false;
} __dl();__ln();
__out(" * @return An immutable ");
$(__, type.name());
  __out(" instance").ln();  
  __out(" */").ln();  
$(__, eachLine, type.getConstructorAnnotations());  
  __ln();  
$(__, eachLine, type.constructorInjectedAnnotations());  
  __ln();  
  __out("public static");  
$(__, type.generics().def());  
  __out(" ");  
$(__, type.typeValue().relative());  
  __out(" ");  
$(__, type.factoryOf().simple());  
  __out(" ");  
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();  
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {  
  __dl();__dl();  
  if ($if($(not, _it1.first))) {  
    __dl();__out(" , ");  
  }  
  __dl();_it1.index++;  
  _it1.first = false;  
  __dl();_it1.index++;  
  _it1.first = false;  
  __dl();_it1.index++;  
  _it1.first = false;  
  __dl();_it1.index++;  
  _it1.first = false;  
  __dl();_it1.index++;  
  _it1.first = false;  
  __dl();__out(" ");.ln();  
  __out(" return ");  
$(__, type.typeImmutable().relative());  
  __out(".");  
$(__, type.names().of);  
  __out(" ");  
{final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();  
for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getConstructorArguments())) {  
  __dl();__dl();  
  if ($if($(not, _it1.first))) {  
    __dl();__out(" , ");  
  }  
  __dl();_it1.index++;  
  _it1.first = false;  
  __dl();_it1.index++;  
  _it1.first = false;  
  __dl();_it1.index++;  
  _it1.first = false;  
  __dl();_it1.index++;  
  _it1.first = false;  
  __dl();__out(" ");.ln();  
  __out(" )").ln();
org.immutables.generator.Templates.Invokable javadocBuilderExample() { return javadocBuilderExample; }
private final org.immutables.generator.Templates.Invokable javadocBuilderExample = new FragmentDispatch(1, 56);
void _t56__javadocBuilderExample(org.immutables.generator.Templates.Invocation __) {
    final org.immutables.value.processor.meta.ValueType type = __cast(__param(0));
    final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getSettableAttributes())
        final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
        for (final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
            $(_, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
} else if ($if(v.isCollectionType())) {
    __dl();__ln();
    __out(" * .");
    $(__, v.names.add());
    __out("[");
    $(__, v.names.addAll());
    __out("]");
    $(__, docEscaped, v.getUnwrappedElementType());
    __out(" // ");
    {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
     $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
    }
    __out(" elements").ln();
    __out(" ");
} else if ($if(v.isMapType())) {
    __dl();__ln();
    __out(" * .");
    $(__, v.names.put());
    __out("[");
    $(__, v.names.putAll());
    __out("]");
    $(__, docEscaped, v.getUnwrappedElementType());
    __out(" =\t");
    $(__, docEscaped, v.getUnwrappedSecondaryElementType());
    __out(" // ");
    {final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
     $(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
    }
    __out(" mappings").ln();
    __out(" ");
} else {
    __dl();__ln();
    __out(" * ");
    $(__, v.names.init);
    __out(" ");
    $(__, docEscaped, v.getElementType());
    __out(" // ");
    __dl();
    if ($if(v.isMandatory()) {
        __dl();__out("required");
} else {
    __dl();__out("optional");
}

__dl();__out(" ");
{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocRef_1518656892 = $cast(v);
$(__, sourceDocLink, a_sourceDocRef_1518656892, a_sourceDocRef_1518656892.names.raw);
}
__ln();
__out(" ");
__dl();__ln();
__dl();_it1.index++;
_it1.first = false;
}
__dl();__ln();
__out(" * .");
$(__, type.names().build);
__out("()").ln();
__out(" * <pre>").ln();
__dl();
}

org.immutables.generator.Templates.Invokable immutableImplementationType() { return immutableImplementationType; }
private final org.immutables.generator.Templates.Invokable immutableImplementationType = new FragmentDispatch(1, 57);
void _t57__immutableImplementationType(org.immutables.generator.Templates.Invokation __) {
    __dl();final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
$(__, output.trim, new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
    __dl();__ln();
    __dl();
    if ($if(v.isEncoding())) {
        __dl();__ln();
        __out(" ");
        $(__, rr.implType(), v);
        __ln();
    } else if ($if(v.isJdkOptional())) {
        __dl();__dl();__ln();
        __out(" ");
        $(__, atNullable, v);
        $(__, v.getWrappedElementType());
        __ln();
    } else if ($if(v.isCustomCollectionType())) {
        __dl();__ln();
    } else {
        __dl();__out("optional");
        __ln();
    }
});

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org.immutables.generator.Templates.Invokable immutableCollectionBuild() { return immutableCollectionBuild; }
private final org.immutables.generator.Templates.Invokable immutableCollectionBuild = new FragmentDispatch(2, 58);

void _t58__immutableCollectionBuild(org.immutables.generator.Templates.Invokation __) {
    __dl();
    final org.immutables.value.processor.meta.ValueAttribute a = __cast(__.param(0));
    final java.lang.String expression = __param(1).toString();
    $(__.output.trim, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __dl__;__ln();
            if ($if(a.isGenerateJdkOnly())) {
                __dl__;__ln();
                __out("  ");
                __dl();
                __dl();
                if ($if(a.isGenerateSortedSet())) {
                    __dl__;__ln();
                    __out("  createUnmodifiableSortedSet(");
                    $(__, a.hasReverseOrder());
                    __out("  , createSafeList(");
                    $(__, expression);
                    __out("  , false, false))").ln();
                    __out("  ");
                } else if ($if(a.isGenerateEnumSet())) {
                    __dl__;__ln();
                    __out("  createUnmodifiableEnumSet(");
                    $(__, expression);
                    __out("  ").ln();
                    __out("  ");
                } else if ($if(a.isGenerateOrdinalValueSet())) {
                    __dl__;__ln();
                    __out("  ");
                    $(__.output.error, new org.immutables.generator.Templates.Fragment(0) {
                        @Override public void run(org.immutables.generator.Templates.Invokation __) {
                            __dl__;__out("Not implemented generate OrdinalValue set for JDK only");
                            __dl();
                        }
                    });
                    __ln();
                    __out("  ");
                } else if ($if(a.isListType())) {
                    __dl__;__ln();
                    __out("  createUnmodifiableList(true, ");
                    __dl();
                    if ($if(a.isAttributeBuilder())) {
                        __dl__;__out(a.getAttributeBuilderDescriptor());
                    }
                }
            }
        }
    });
}
__.out("(");
$___.expression);
__.out("(")
}

} else {
  $$.dl();$.expression;

} .dl();$$).ln();
  $.out(" ");
} else if ($if(a.isSetType())) {
  $$.dl();$$).ln();
  $$.out(" createUnmodifiableSet(");
$$_.expression);
  $$).ln();
  $$).out(" ");
} else if ($if(a.isGenerateEnumMap())) {
  $$.dl();$$).ln();
  $$.out(" createUnmodifiableEnumMap(false, false, ");
$$_.expression);
  $$).ln();
  $$).out(" ");
} else if ($if(a.isGenerateSortedMap())) {
  $$.dl();$$).ln();
  $$.out(" createUnmodifiableSortedMap(");
$$_.a.hasReverseOrder());
  $$).out(" false, false, ");
$$).expression);
  $$).ln();
  $$).out(" ");
} else if ($if(a.isMapType())) {
  $$.dl();$$).ln();
  $$.out(" createUnmodifiableMap(false, false, ");
$$_.expression);
  $$).ln();
  $$).out(" ");

}

$$.dl();$$)

} else {
  $$).out(" ");
  $$); if ($if($(a.isGenerateOrdinalValueSet(), or, $(a.isGenerateEnumSet(), or, a.isGenerateEnumMap())))) {
  $$).ln();
  $$).out(" ");
$$_.immutableCollectionCopyOf, a, new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
    __.dl();
    __.out(""");
    __.dl();
    }});
    __.ln();
    __.out(" ");

} else {
    __.dl();
    __.ln();
    __.out(" ");
    __.dl();
    if ($if(a.isAttributeBuilder())) {
        __.dl();
        __.out(" ");
        __.dl();
    } else {
        __.dl();
        __.ln();
        __.out(" ");
        __.dl();
    } else {
        __.dl();
        __.ln();
        __.out(" ");
    }
    __.dl();
    __.ln();
    }
    __.dl();
    }
    }

org.immutables.generator.Templates.Invokable immutableCollectionCopyOf() { return
immutableCollectionCopyOf; }
private final org.immutables.generator.Templates.Invokable immutableCollectionCopyOf = new
FragmentDispatch(2, 59);
void _t59__immutableCollectionCopyOf(org.immutables.generator.Templates.Invokation ___) {
    __.dl();
    final org.immutables.value.processor.meta.ValueAttribute a = $cast(____.param(0));
    final java.lang.String expression = ____.param(1).toString();
    $(___.immutableCollectionCopyOfSafe, a, $$true, expression);
    __.dl();
}
private final org.immutables.generator.Templates.Invokable immutableCollectionCopyOfSafe = new FragmentDispatch(3, 60);

void _t60__immutableCollectionCopyOfSafe(org.immutables.generator.Templates.Invokation __) {
  __.dl();
  final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
  final java.lang.Boolean safe = $if(__.param(1));
  final java.lang.String expression = __.param(2).toString();
  $(__.output.trim, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __.dl();
      if ($if(a.isGenerateJdkOnly())) {
        __.dl();
      }
      else {
        __.dl();
      }
      __.dl();
      if ($if(a.isGenerateSortedSet())) {
        __.dl();
        __.out("createUnmodifiableSortedSet(");
        $(__, a.hasReverseOrder());
        __.out(" ");
        $(__, safeList);__out(")");
        __.out(" ");
        __.dl();
      }
      else if ($if(a.isGenerateEnumSet())) {
        __.dl();
        __.out("createUnmodifiableEnumSet(");
        $(__, safeList);__out(" ");
        __.out(" ");
        __.dl();
      }
      else if ($if(a.isGenerateEnumSet())) {
        __.dl();
        __.out("createUnmodifiableEnumSet(");
        $(__, safeList);__out(" ");
        __.out(" ");
        __.dl();
      }
    }
  });
}
$(__, expression);
  __out(" ").ln();
  __out(" ");
} else if ($if(a.isGenerateOrdinalValueSet())) {
  __dl(); __ln();
  __out(" ");
} __output.error, new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __dl(); __out("Not implemented generate OrdinalValue set for JDK only");
    __dl();
  } });
  __ln();
  __out(" ");
} else if ($if(a.isListType())) {
  __dl(); __ln();
  __out(" createUnmodifiableList(false, ");
  __LU00a1, safeList);
  __out(" ").ln();
  __out(" ");
} else if ($if(a.isSetType())) {
  __dl(); __ln();
  __out(" createUnmodifiableSet(");
  __LU00a1, safeList);
  __out(" ").ln();
  __out(" ");
} else if ($if(a.isGenerateEnumMap())) {
  __dl(); __ln();
  __out(" createUnmodifiableEnumMap(");
  __LU00a1, safe, and, a.nullElements.ban());
  __out(" ");
  __LU00a1, a.nullElements.skip());
  __out(" ");
  __LU00a1, expression);
  __out(" ").ln();
  __out(" ");
} else if ($if(a.isGenerateSortedMap())) {
  __dl(); __ln();
  __out(" createUnmodifiableSortedMap(");
  __LU00a1, a.hasReverseOrder());
  __out(" ");
  __LU00a1, safe, and, a.nullElements.ban());
  __out(" ");
  __LU00a1, a.nullElements.skip());
  __out(" ");
  __LU00a1, expression);
  __out(" ").ln();
  __out(" ");
} else if ($if(a.isMapType())) {
```java
__dl();__ln();
__out("    createUnmodifiableMap(");
$(__, safe, and, a.nullElements.ban());
__out(" , ");
$(__, a.nullElements.skip());
__out(" , ");
$(__, expression);
__out(")").ln();
__out(" ");

} else {
__dl();__ln();
__out("    ");
$__ (expression);
__ln();
__out(" ");

} __dl();__ln();

} else {
__dl();__ln();
__out("    ");
__dl();
if ($if(a.isGenerateSortedSet())) {
__dl();__ln();
__out("    ");
$(__, guava);
__out(".collect.ImmutableSortedSet.copyOf(").ln();
__out("    ");
__dl();
if ($if(a.hasNaturalOrder())) {
__dl();__ln();
__out("        ");
$__ (guava);
__out(".collect.Ordering.<");
$(__, a.getElementType());
__out("natural(),").ln();
__out("    ");

} else {
__dl();__ln();
__out("        ");
$__ (guava);
__out(".collect.Ordering.<");
$(__, a.getElementType());
__out("natural().reverse(),").ln();
__out("    ");
```
if ($if(a.isGenerateEnumSet())) {
    __out(" .collect.Sets.immutableEnumSet(");
    __out(" ");
    $(__, expression);
    __out(" ");
}

if ($if(a.isGenerateOrdinalValueSet())) {
    __out(" org.immutables.ordinal.ImmutableOrdinalSet.copyOf(");
    __out(" ");
    $(__, expression);
    __out(" ");
    __out(" ");
}

if ($if(a.isGenerateSortedMultiset())) {
    __out(" .collect.ImmutableSortedMultiset.copyOf(").ln();
    __out(" ");
    __dl();
}

if ($if(a.hasNaturalOrder())) {
    __out(" .collect.Ordering.<");
    $(__, a.getElementType());
    __out(">natural(),");.ln();
    __out(" ");
}

} else {
    __dl();
}
} else if ($if(a.isCustomCollectionType())) {
  __.dl();__.ln();
  _.out("    ");
  $(__, a.getRawType());
  __.out("    ");
  $(__, expression);
  __.out("    ");
} else if ($if(a.isCollectionType())) {
  __.dl();__.ln();
  _.out("    ");
  $(__, guava);
  __.out("    ");
  $(__, a.getRawCollectionType());
  __.out("    ");
  $(__, expression);
  __.out("    ");
} else if ($if(a.isGenerateSortedMap())) {
  __.dl();__.ln();
  _.out("    ");
  $(__, guava);
  __.out("    ");
  $(__, a.getRawCollectionType());
  __.out("    ");
  $(__, expression);
  __.out("    ");
  __.dl();
  if ($if(a.hasNaturalOrder())) {
    __.ln();
    _.out("    ");
    $(__, guava);
    __.out("    ");
    $(__, a.getCollectionType());
    __.out("    ");
    $(__, expression);
    __.out("    ");
    __.ln();
  } else {
    __.ln();
    _.out("    ");
    $(__, guava);
    __.out("    ");
    $(__, a.getCollectionType());
    __.out("    ");
  }
}
public org.immutables.generator.Templates.Invokable equalsAttribute() { return equalsAttribute; }  
private final org.immutables.generator.Templates.Invokable equalsAttribute = new FragmentDispatch(2, 61);  
void _t61__equalsAttribute(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));  
final java.lang.Boolean useAccessor = $if(__.param(1));  
$___.output.trim, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dl();}});  
  __dl();  
}  


final org.immutables.generator.Templates.Invokable thisAttr = new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.generator.Templates.Invokable thisAttr = this;
    __.dl();
    if ($(a.name(), eq, "another")) {
      __.dl();__out("this.");
    }
    __.dl();$_.a.name());
    __.dl();
  }
};__dl();__ln();
final org.immutables.generator.Templates.Invokable getOther = new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.generator.Templates.Invokable getOther = this;
    __.out("another.");
    __.dl();
    if ($if(useAccessor)) {
      __.dl();$_.a.names.get);
      __out("()"):
    } else {
      __.dl();$_.a.name());
    }
    __.dl();__dl();
  }
};__dl();__ln();
if ($if(a.isEncoding())) {
  __.dl();__ln();
  __.out(" ");
  _$_.rr.equals(), a, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __.dl();__out("another");
      __.dl();
    }
  });__ln();
} else if ($if(a.isFloat())) {
  __.dl();__ln();
  __.out(" Float.floatToBits()");
  _$_.thisAttr);
  __.out(" == Float.floatToBits()");
  _$_.getOther);
  __.out(".").ln();
} else if ($if(a.isDouble())) {
  __.dl();__ln();
  __.out(" Double.doubleToLongBits()");
public org.immutables.generator.Templates.Invokable arrayAsList() { return arrayAsList; }
private final org.immutables.generator.Templates.Invokable arrayAsList = new FragmentDispatch(2, 62);
void _t62__arrayAsList(org.immutables.generator.Templates.Invokation __) {
__dl();
final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
final java.lang.String expression = __.param(1).toString();

}
$(___. output.trim, new org.immutables.generator.Templates.Fragment(0) {
@Override public void run(org.immutables.generator.Templates.Invokation __) {
  __.dl(); __.ln();
  __.dl();
  if ($if(a.isUnwrappedElementPrimitiveType())) {
    __.dl(); __.ln();
    __.out(" ");
    __.dl();
    if ($if(a.isGenerateJdkOnly())) {
      __.dl(); __.ln();
      __.out(" ");
      $(___. output.error, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
          __.dl(); __.ln();
          __.out("Template methods ‘arrayAsList’ could not be used for primitive jdk only conversion");
          __.dl();
        }
      });
      __.ln();
      __.out(" ");
    } else {
      __.dl(); __.ln();
      __.out(" ");
      $(___. guava);
      __.out("primitives.");
      $(___. toUpper, a.getUnwrappedElementType());
      __.out("s.asList(");
      $(___. expression);
      __.out(".").ln();
      __.out(" ");
    }
    __.dl(); __.ln();
  } else {
    __.dl(); __.ln();
    __.out(" java.util.Arrays.asList(");
    $(___. expression);
    __.out(".").ln();
  }
  __.dl(); __.ln();
} }));
  __.dl();
\}

public org.immutables.generator.Templates.Invokable arrayAsListSecondary() { return arrayAsListSecondary; }
private final org.immutables.generator.Templates.Invokable arrayAsListSecondary = new FragmentDispatch(2, 63);
void _t63__arrayAsListSecondary(org.immutables.generator.Templates.Invokation __) {
  __dl(); final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
  final java.lang.String expression = __.param(1).toString();
  $(__, output.trim, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dl(); __ln();
      __dl();
      if ($if(a.isUnwrappedSecondaryElementPrimitiveType())) {
        __dl(); __ln();
        __out(" ");
        __dl();
        if ($if(a.isGenerateJdkOnly())) {
          __dl(); __ln();
          __out(" ");
          $___.output.error, new org.immutables.generator.Templates.Fragment(0) {
            @Override public void run(org.immutables.generator.Templates.Invokation __) {
              __dl();
              __out("Template methods 'arrayAsList' could not be used for primitive jdk only conversion");
              __dl();
            }});
          __ln();
          __out(" ");
        } else {
          __dl(); __ln();
          __out(" ");
          $(___. guava);
          __out(" .primitives.");
          $(___. toUpper, a.getUnwrappedSecondaryElementType());
          __out(" .asList()");
          $___. expression);
          __out(" ").ln();
          __out(" ");
        }
      } else {
        __dl(); __ln();
        __out(" ");
        $(___. java.util.Arrays.asList(");
        $(___. expression);  __out(" ").ln();
      }
    }
  });
  __dl();
  __dl();
};
public org.immutables.generator.Templates.Invokable primitiveHashCode() { return primitiveHashCode; }

private final org.immutables.generator.Templates.Invokable primitiveHashCode = new FragmentDispatch(1, 64);

void _t64__primitiveHashCode(org.immutables.generator.Templates.Invocation __) {
  __dl(); final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
  $(__, output.trim, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dl(); __ln();
      __dl();
      if ($if(v.isInt())) {
        __dl(); __ln();
        __out(“ ”);
        $(__, v.name());
        __ln();
      } else if ($if(v.isGenerateJdkOnly())) {
        __dl(); __ln();
        __out(“ ”);
        __dl();
      } else if ($if($(classpath.isJava8(), andnot, $(classpath.available, "android.R")))) {
        __dl(); __ln();
        __out(“ ”);
        $(__, v.getWrapperType());
        __out(“.hashCode()”);
        $(__, v.name());
        __out(“)”);.ln();
        __out(“ ”);
      } else if ($if(v.isLong())) {
        __dl(); __ln();
        __out(“ (int)” “
        $(__, v.name());
        __out(“ ^ (“);
        $(__, v.name());
        __out(“ >>> 32)”);.ln();
        __out(“ ”);
      } else if ($if(v.isBoolean())) {
        __dl(); __ln();
        __out(" ”);
        $(__, v.name());
        __out(" ? 1231 : 1237”)}.ln();
        __out(" ”);
      } else if ($if(v.isFloat())) {
        __dl(); __ln();
        __out(" Float.floatToIntBits(");
        $(__, v.name());
        __out(")");.ln();
        __out(" ”);
      } else if ($if(v.isDouble())) {
        __dl(); __ln();
        __out(" Float.floatToRawIntBits(");
        $(__, v.name());
        __out(")");.ln();
        __out(" ”);
      } else if ($if(v.isChar())) {
        __dl(); __ln();
        __out(" ”);
        $(__, v.name());
        __out(" ”);
        __dl(); __ln();
    }
  });
}
public org.immutables.generator.Templates.Invokable objectsEqual() { return objectsEqual; }
private final org.immutables.generator.Templates.Invokable objectsEqual = new FragmentDispatch(1, 65);
void _t65__objectsEqual(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueType type = __cast(__param(0));
  __dl();org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dl();__ln();
      if ($if(type.isGenerateJdkOnly())) {
        __dl();__ln();
        __out(" ");
        __dl();
      }
    }
  };
}

public org.immutables.generator.Templates.Invokable objectsEqual() { return objectsEqual; }
private final org.immutables.generator.Templates.Invokable objectsEqual = new FragmentDispatch(1, 65);
void _t65__objectsEqual(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueType type = __cast(__param(0));
  __dl();org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dl();__ln();
      if ($if(type.isGenerateJdkOnly())) {
        __dl();__ln();
        __out(" ");
        __dl();
      }
    }
  };
}

public org.immutables.generator.Templates.Invokable objectsEqual() { return objectsEqual; }
private final org.immutables.generator.Templates.Invokable objectsEqual = new FragmentDispatch(1, 65);
void _t65__objectsEqual(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueType type = __cast(__param(0));
  __dl();org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dl();__ln();
      if ($if(type.isGenerateJdkOnly())) {
        __dl();__ln();
        __out(" ");
        __dl();
      }
    }
  };
}

public org.immutables.generator.Templates.Invokable objectsEqual() { return objectsEqual; }
private final org.immutables.generator.Templates.Invokable objectsEqual = new FragmentDispatch(1, 65);
void _t65__objectsEqual(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueType type = __cast(__param(0));
  __dl();org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dl();__ln();
      if ($if(type.isGenerateJdkOnly())) {
        __dl();__ln();
        __out(" ");
        __dl();
      }
    }
  };
}
if ($if(hasAndroid)) {
  __.dl();__.ln();
  __.out(" ");
  $(__, topSimplePrefix, type);
  __.out("equals"),ln();
  __.out(" ");
} else if ($if(hasObjects)) {
  __.dl();__.ln();
  __.out(" java.util.Objects.equals"),ln();
  __.out(" ");
}
else {
  __.dl();__.ln();
  __.out(" ");
  $(__, topSimplePrefix, type);
  __.out("equals"),ln();
  __.out(" ");
}
___.dl();__.ln();
}
else {
  __.dl();__.ln();
  __.out(" ");
  __.dl();
  if ($if($hasObjects, andnot, hasAndroid)) {
    __.dl();__.ln();
    __.out(" java.util.Objects.equals"),ln();
    __.out(" ");
  } else {
    __.dl();__.ln();
    __.out(" ");
    $(__, guava);
    __.out(" .base.Objects.equal"),ln();
    __.out(" ");
  }
}
___.dl();__.ln();
}
___.dl();__.ln();
___.dl();___.it1.index++;
___.it1.first = false;
}
___.dl();__.ln();
___.dl();
}
}});
public org.immutables.generator.Templates.Invokable objectsHashCode() { return objectsHashCode; }

private final org.immutables.generator.Templates.Invokable objectsHashCode = new FragmentDispatch(1, 66);

void _t66__objectsHashCode(org.immutables.generator.Templates.Invokation __) {
  __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
$(__, output.trim, new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
    __.dl();__.ln();
    {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
      final java.lang.Boolean hasObjects = $cast($(classpath.available, "java.util.Objects"));
      final java.lang.Boolean hasAndroid = $cast($(classpath.available, "android.R"));
      __.dl();__.ln();
      __.dl();
      if ($if(type.isGenerateJdkOnly())) {
        __.dl();__.ln();
        __.out(" ");
        __.dl();
        if ($if(hasAndroid)) {
          __.dl();__.ln();
          __.out(" ");
          $(__, topSimplePrefix, type);
          __.out("hashCode").ln();
          __.out(" ");
        } else if ($if(hasObjects)) {
          __.dl();__.ln();
          __.out(" java.util.Objects.hashCode").ln();
          __.out(" ");
        } else {
          __.dl();__.ln();
          __.out(" ");
          $(__, topSimplePrefix, type);
          __.out("hashCode").ln();
          __.out(" ");
        }
      } else if ($if(hasAndroid)) {
        __.dl();__.ln();
        __.out(" ");
        $(__, topSimplePrefix, type);
        __.out("hashCode").ln();
        __.out(" ");
      } else {
        __.dl();__.ln();
        __.out(" ");
        $(__, topSimplePrefix, type);
        __.out("hashCode").ln();
        __.out(" ");
      }
    }
  }
}

if ($if($hasObjects, andnot, hasAndroid)) {
  __.dl();__.ln();
  __.out(" ");
  $(__, $hasObjects, andnot, hasAndroid));
  __.dl();__.ln();
  __.out(" java.util.Objects.hashCode").ln();
  __.out(" ");
public org.immutables.generator.Templates.Invokable requireNonNull() { return requireNonNull; }

private final org.immutables.generator.Templates.Invokable requireNonNull = new FragmentDispatch(1, 67);

void _t67__requireNonNull(org.immutables.generator.Templates.Invokation __) {
    __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    __out().trim, new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
            __out().trim, new org.immutables.generator.Templates.Fragment(0) {
                @Override public void run(org.immutables.generator.Templates.Invokation __) {
                    __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
                    __out().trim, new org.immutables.generator.Templates.Fragment(0) {
                        @Override public void run(org.immutables.generator.Templates.Invokation __) {
                            __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
                            __out().trim, new org.immutables.generator.Templates.Fragment(0) {
                                @Override public void run(org.immutables.generator.Templates.Invokation __) {
                                    __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
                                    __out().trim, new org.immutables.generator.Templates.Fragment(0) {
                                        @Override public void run(org.immutables.generator.Templates.Invokation __) {
                                            __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
                                            __out().trim, new org.immutables.generator.Templates.Fragment(0) {
                                                @Override public void run(org.immutables.generator.Templates.Invokation __) {
                                                    __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
                                                    __out().trim, new org.immutables.generator.Templates.Fragment(0) {
                                                        @Override public void run(org.immutables.generator.Templates.Invokation __) {
                                                            __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
                                                            __out().trim, new org.immutables.generator.Templates.Fragment(0) {
                                                                @Override public void run(org.immutables.generator.Templates.Invokation __) {
                                                                    __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
                                                                    __out().trim, new org.immutables.generator.Templates.Fragment(0) {
                                                                        @Override public void run(org.immutables.generator.Templates.Invokation __) {
                                                                            __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
                                                                            __out().trim, new org.immutables.generator.Templates.Fragment(0) {
                                                                                @Override public void run(org.immutables.generator.Templates.Invokation __) {
                                                                                    __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
                                                                                    __out().trim, new org.immutables.generator.Templates.Fragment(0) {
                                                                                        @Override public void run(org.immutables.generator.Templates.Invokation __) {
                                                                                            __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
                                                                                            __out().trim, new org.immutables.generator.Templates.Fragment(0) {
                                                                                                @Override public void run(org.immutables.generator.Templates.Invokation __) {
                                                                                                    __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
                                                                                                    __out().trim, new org.immutables.generator.Templates.Fragment(0) {
                                                                                                        @Override public void run(org.immutables.generator.Templates.Invokation __) {
                                                                                                            __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
                                                                                                            __out().trim, new org.immutables.generator.Templates.Fragment(0) {
                                                                                                                @Override public void run(org.immutables.generator.Templates.Invokation __) {
                                                                                                                    __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
                                                                                                                    __out().trim, new org.immutables.generator.Templates.Fragment(0) {
                                                                                                                        @Override public void run(org.immutables.generator.Templates.Invokation __) {
                                                                                                                            __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
                                                                                                                            __out().trim, new org.immutables.generator.Templates.Fragment(0) {
                                                                                                                                @Override public void run(org.immutables.generator.Templates.Invokation __) {
                                                                                                                                    __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
                                                                                                                                    __out().trim, new org.immutables.generator.Templates.Fragment(0) {
                                                                                                                                        @Override public void run(org.immutables.generator.Templates.Invokation __) {
                                                                                                                                            __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
                                                                                                                                            __out().trim, new org.immutables.generator.Templates.Fragment(0) {
                                                                                                                                                @Override public void run(org.immutables.generator.Templates.Invokation __) {
                                                                                                                                                    __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
                                                                                                                                                    __out().trim, new org.immutables.generator.Templates.Fragment(0) {
                                                                                                                                                        @Override public void run(org.immutables.generator.Templates.Invokation __) {
                                                                                                                                                            __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
                                                                                                                                                            __out().trim, new org.immutables.generator.Templates.Fragment(0) {
                                                                                                                                                                @Override public void run(org.immutables.generator.Templates.Invokation __) {
                                                                                                                                                                    __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
                                                                                                                                                                    __out().trim, new org.immutables.generator.Templates.Fragment(0) {
                                                                                                                                                                        @Override public void run(org.immutables.generator.Templates.Invokation __) {
                                                                                                                                                                            __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
                                                                                                                                                                            __out().trim, new org.immutables.generator.Templates.Fragment(0) {
                                                                                                                                                                                @Override public void run(org.immutables.generator.Templates.Invokation __) {
                                                                                                                                                                                    __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
                                                                                                                                                                                    __out().trim, new org.immutables.generator.Templates.Fragment(0) {
                                                                                                                                                                                        @Override public void run(org.immutables.generator.Templates.Invokation __) {
                                                                                                                                                                                            __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
                                                                                                                            __out().trim, new org.immutables.generator.Templates.Fragment(0) {
                                                                                                                            }]);
                                                                                                                        } });
                                                                                                                    } });
                                                                                                                } });
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                                                                                                        } });
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           } {}}
          } {}}
         } {}}
        } {}}
       } {}}
      } {}}
     } {}}
    } {}}
   } {}}
  } {}}
} else {
    __dl();__ln();
    __out("   ");
    $(__, guava);
    __out("\n\n");
__out(" ");
} else if ($if(hasObjects)) {
  __dl()::__ln();
  __out("    java.util.Objects.requireNonNull").ln();
  __out(" ");
}

} __dl()::__ln();

} else {
  __dl()::__ln();
  __out(" ");
$(__, topSimplePrefix, type);
  __out("requireNonNull").ln();
  __out(" ");

}

__dl()::__ln();

})
}

__.dl();

}.base.Preconditions.checkNotNull).ln();
  __out(" ");
}

__dl()::__ln();

} else {
  __dl()::__ln();
  __out(" ");
$___.guava);
  __out("_.base.Preconditions.checkNotNull").ln();
  __out(" ");

}

__dl()::__ln();

)

__.dl();__ln();
__dl();__it1.index++; __it1.first = false;
}

} __dl()::__ln();
    __dl();
} });
    __dl();
};

public org.immutables.generator.Templates.Invokable objectsUtility() { return objectsUtility; }
private final org.immutables.generator.Templates.Invokable objectsUtility = new FragmentDispatch(1, 68);
```java
void _t68__objectsUtility(org.immutables.generator.Templates.Invokation __) {
  __dl();
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  __ln();
  __dl();
  if ($if(type.getThrowForNullPointer())) {
    __dl();__ln();
    __ln();
    __out("private static <T> T requireNonNull(T object, String message) {").ln();
    __out(" if (object == null) throw new ");
    $(__, type.getThrowForNullPointer());
    __out("(message);").ln();
    __out(" return object;").ln();
    __out(" }").ln();
  }
  __dl();__ln();
  __dl();
  if ($if(type.isGenerateJdkOnly())) {
    __dl();__ln();
    {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
     final java.lang.Boolean haveObjects = $cast($(classpath.available, "java.util.Objects"));
     final java.lang.Boolean haveAndroid = $cast($(classpath.available, "android.R"));
    }
    __dl();__ln();
    __out(" ");
    __dl();
    if ($if($(haveAndroid, ornot, haveObjects))) {
      __dl();__ln();
      __out(" ");
      __dl();
      if ($if(type.isUseNullSafeUtilities())) {
        __dl();__dl();__ln();
        __ln();
        __out("private static <T> T requireNonNull(T object, String message) {".ln();
        __out(" if (object == null) throw new NullPointerException(message);".ln();
        __out(" return object;").ln();
        __out(" }").ln();
      }
      __dl();
      __out(" ");
      __dl();
      if ($if($not, type.getThrowForNullPointer())) {
        __dl();
        __out("private static int hashCode(Object object) {").ln();
        __out(" return object != null ? object.hashCode() : 0;").ln();
        __out(" ").ln();
      }
      __dl();
      __out(" ");
      __dl();
      if ($if($not, type.isUseNullSafeUtilities())) {
        __dl();
        __out("private static int hashCode(Object object) {".ln();
        __out(" return object != null ? object.hashCode() : 0;").ln();
        __out(" ").ln();
      }
      __dl();
      __out(" ");
      __dl();
    }
  }
  __dl();
  __ln();
  __dl();
  if ($if(type.isUseNullSafeUtilities())) {
    __dl();
    __ln();
    __out("private static int hashCode(Object object) {".ln();
    __out(" return object != null ? object.hashCode() : 0;".ln();
    __out(" ").ln();
  }
  __dl();
  __ln();
  __dl();
```
private static boolean equals(Object left, Object right) {
    return left == right || (left != null && left.equals(right));
}

public org.immutables.generator.Templates.Invokable attributeBuilderTransformUtilities() {
    return attributeBuilderTransformUtilities;
}

private final org.immutables.generator.Templates.Invokable attributeBuilderTransformUtilities = new FragmentDispatch(1, 69);

void _t69__attributeBuilderTransformUtilities(org.immutables.generator.Templates.Invokation __) {
    final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    final org.immutables.value.processor.meta.ValueAttribute v :
    $in(type.getUniqueAttributeBuilderAttributes()) {
        final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
        for (final org.immutables.value.processor.meta.ValueAttribute v :
            $in(type.getUniqueAttributeBuilderAttributes()) {
                final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);
                if ($if($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable"))) {
                    @javax.annotation.Nullable ...
                }
            }
        }
    }
}
private static final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_convertToValueType_1028768993 = $cast(v.getAttributeBuilderDescriptor());

private static final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);

if ($if($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable")) {
    
} else {
    
}

private static final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);

if ($if($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable")) {
    
} else {
    
}
{final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_convertToValueType_1028768993 = $cast(v.getAttributeBuilderDescriptor());
  __.out("convertToValueType");
 __$(__, n_convertToValueType_1028768993.getQualifiedValueTypeNameWithUnderscores());
}
___.out("()");
{final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);
  __.dl();
  if ($if($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable"))) {
    __.dl();__.out("@javax.annotation.Nullable ");
  }
  __.dl();
  ___.out(" ");
  __.dl();
  if ($if(v.hasAttributeValue())) {
    __.dl();$___.attributeValueType.typeAbstract().absolute();
  } else {
    __.dl();__$(_.get().getAttributeBuilderDescriptor().getQualifiedValueTypeName());
  }
  ___.dl();___.out(" value") {".ln();
    ___.out(" if (value == null) return null;");.ln();
    ___.out(" return ");
  }
  {final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_valueToBuilder_1442539515 = $cast(v.getAttributeBuilderDescriptor());
    final org.immutables.generator.Templates.Invokable expression_valueToBuilder_1442539515 = new
      org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
          __.dl();final org.immutables.generator.Templates.Invokable expression_valueToBuilder_1442539515 = this;
          ___.out("value");
          __.dl();
        }
      });___.dl();___dl();
  if ($if(n_valueToBuilder_1442539515.isCopyMethodOnValueInstance())) {
    ___.dl();__$(_.attributeValueTypeToBuilder_1442539515 = this;
      ___.out("value");
      __.dl();
    }
  } else {
    ___.dl();__$(_.attributeValueTypeToBuilder_1442539515 = this;
      ___.out("value");
      __.dl();
    }
    ___.out("()");
  } else {
    ___.dl();__$(_.attributeValueTypeToBuilder_1442539515 = this;
      ___.out("value");
      __.dl();
    }
    ___.out("()");
  } else {
    ___.dl();__$(_.attributeValueTypeToBuilder_1442539515 = this;
      ___.out("value");
      __.dl();
    }
    ___.out("()");
  }
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```java
public static <T> T convertToBuilderType(T value) {
  if (value == null) return null;
  return ...
}
```
$cast(v.getAttributeBuilderDescriptor());

final org.immutables.generator.Templates.Invokable expression_valueToBuilder_1442539515 = new
org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invocation __) {
        __.dl();final org.immutables.generator.Templates.Invokable expression_valueToBuilder_1442539515 = this;
        __.dl();
    } __.dl(); __.dl();
    if ($if(n_valueToBuilder_1442539515.isCopyMethodOnValueInstance())) {
        __.dl();$(__, expression_valueToBuilder_1442539515);
        __.out(".");
        $(__, n_valueToBuilder_1442539515.getQualifiedValueToBuilderMethod());
        __.out("()");
    } else {
        __.dl();$(__, n_valueToBuilder_1442539515.getQualifiedValueToBuilderMethod());
        __.out("()");
        $(__, expression_valueToBuilder_1442539515);
        __.out("()");
    }
    __.dl();
    __.out(";").ln();
    __.out(""").ln();
    __.dl();__it1.index++;
    __it1.first = false;
} __.dl();___.ln();
}

{final org.immutables.generator.Templates.Iteration __it1 = new org.immutables.generator.Templates.Iteration();
 for (final org.immutables.value.processor.meta.ValueAttribute v :
 $in(type.getUniqueAttributeBuilderListAttributes())) {
    __.dl();___.ln();
    final org.immutables.generator.Templates.Invokable listType = new
org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invocation __) {
            __.dl();final org.immutables.generator.Templates.Invokable listType = this;
            __.dl();
        } __.dl(); __.dl();
        if ($if(v.hasAttributeValue())) {
            __.dl();$(__, v.attributeValueType.typeAbstract().absolute());
        } else {
            __.dl();$(__, v.getAttributeBuilderDescriptor().getQualifiedValueTypeName());
        }
        __.dl();___.dl();
    } __.dl();___.ln();
}
```java
___out("(Iterable<? extends ");
$(___.v.getAttributeBuilderDescriptor().getQualifiedValueTypeName());
___out(" valueList ) { ").ln();
$(__, copyBuilderListBody, v, $$false, $$false, new org.immutables.generator.Templates.Fragment(0) {
  @Override
  public void run(org.immutables.generator.Templates.Invokation __) {
    ___dl();
    ___out("valueList");
    ___dl();
  }
});
___ln();
___out(" ");ln();
___ln();
___out("private static java.util.List<");
$(__, v.getAttributeBuilderDescriptor().getQualifiedBuilderTypeName());
___out(" >");
{final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_convertToBuilderType_187063380 =
  $cast(v.getAttributeBuilderDescriptor());
  ___out("convertToBuilderType");
  $(__, n_convertToBuilderType_187063380.getQualifiedValueTypeNameWithUnderscores());
}
  ___out("\n");
$(__, v.getAttributeBuilderDescriptor().getQualifiedValueTypeName());
___out("... valueArray ) { ").ln();
$(__, copyBuilderListBody, v, $$false, $$true, new org.immutables.generator.Templates.Fragment(0) {
  @Override
  public void run(org.immutables.generator.Templates.Invokation __) {
    ___dl();
    ___out("valueArray");
    ___dl();
  }
});
___ln();
___out(" ");ln();
___dl();_it1.index++;
_it1.first = false;
}
___dl();___ln();
}
___dl();___ln();

org.immutables.generator.Templates.Invokable convertToBuilderType() { return convertToBuilderType; }
private final org.immutables.generator.Templates.Invokable convertToBuilderType = new FragmentDispatch(1, 70);
void __t70__convertToBuilderType(org.immutables.generator.Templates.Invokation __) {
  ___dl();final org.immutables.value.processor.meta.AttributeBuilderDescriptor n = $cast(__.param(0));
  ___out("convertToBuilderType");
  $(__, n.getQualifiedValueTypeNameWithUnderscores());
  ___dl();
}
```
if ($if(vargs)) {
  __dl();__ln();
  __out(" if (");
  __out(".length == 0) return java.util.Collections.emptyList();");__ln();
  __out("  ");
}
else {
  __dl();__ln();
  __out(" if (");
  __out(" instanceof java.util.Collection<>) ");__ln();
  __out(" int size = ((java.util.Collection<>) ");
  __out(" } ");__ln();
  __out("  ");
}

__dl();__ln();
__out("  list = new java.util.ArrayList");
$___.asDiamond, listType);__ln();
__out(" () ");
__out(" ");
}
else {
  __dl();__ln();
  __out("  ");
  __dl();__ln();
  __out("  ");
  $___.guava;
  __out(".collect.ImmutableList.Builder<");
  ___.listType);
  __out(" list = ");
  ___.guava;
  __out(".collect.ImmutableList.builder();");__ln();
  __out("  ");
}
__dl();__ln();
__out("  ");
__dl();__ln();
__out("  for (";
__dl();
if ($if(toValueType)) {
  __dl();$___.v.getAttributeBuilderDescriptor().getQualifiedBuilderTypeName());
} else {
    __.dl();$___.getAttributeBuilderDescriptor().getQualifiedValueTypeName();
}

__.dl();__.out(" element :");
$___.listToTransform;
__.out(" ")__.ln();
__.out(" ");
__.dl();
if ($if(toValueType)) {
    __.dl();__.ln();
    __.out("    list.add(element.");
    $___.getAttributeBuilderDescriptor().getBuildMethod();
    __.out("()");__.ln();
    __.out(" ");
}
else {
    __.dl();__.ln();
    __.out("    list.add(");
    {final org.immutables.value.processor.meta.AttributeBuilderDescriptor n_valueToBuilder_1442539515 =
        $cast(v.getAttributeBuilderDescriptor());
        final org.immutables.generator.Templates.Invokable expression_valueToBuilder_1442539515 = new
        org.immutables.generator.Templates.Fragment(0) {
            @Override public void run(org.immutables.generator.Templates.Invokation __) {
                __.dl();final org.immutables.generator.Templates.Invokable expression_valueToBuilder_1442539515 = this;
                __.out("element");
                __.dl();
            });___.dl();___.dl();
    if ($if(n_valueToBuilder_1442539515.isCopyMethodOnValueInstance())) {
        __.dl();$___.expression_valueToBuilder_1442539515;
        __.out(".");
        $___.n_valueToBuilder_1442539515.getQualifiedValueToBuilderMethod();
        __.out("()");
    } else {
        __.dl();$___.n_valueToBuilder_1442539515.getQualifiedValueToBuilderMethod();
        __.out("(");
        $___.expression_valueToBuilder_1442539515;
        __.out(")");
    }
    __.dl();
}
public org.immutables.generator.Templates.Invokable collectionUtility() { return collectionUtility; }
private final org.immutables.generator.Templates.Invokable collectionUtility = new FragmentDispatch(1, 73);
void _t73__collectionUtility(org.immutables.generator.Templates.Invokation __) {
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  if ($(type.isUseListUtility(), or, $(type.isUseSetUtility(), or, $(type.isUseEnumSetUtility(), or,
          type.isUseSortedSetUtility())))) {
    private static <T> java.util.List<T> createSafeList(Iterable<? extends T> iterable, boolean checkNulls,
        boolean skipNulls) {
      java.util.ArrayList<T> list;
      if (iterable instanceof java.util.Collection<?>) {
        int size = ((java.util.Collection<?>) iterable).size();
        if (size == 0) return java.util.Collections.emptyList();
        list = new java.util.ArrayList$(__, asDiamond, "T");
        for (T element : iterable) {
          if (skipNulls && element == null) continue;
          if (checkNulls) $(___.requireNonNull, type);
          $(___.out("element").ln());
        }
        ___.dl();___.ln();
      } else {
        list = new java.util.ArrayList$(__, asDiamond, "T");
      }
      ___.out("return list;").ln();
      ___.out("return list.build();").ln();
      ___.out("return list;").ln();
      ___.out("return list.build();").ln();
    }
    ___.dl();___.ln();
    ___.dl();
  }
  ___.dl();___.ln();
  ___.dl();
}
```java
private static <T> java.util.List<T> createUnmodifiableList(boolean clone, java.util.List<T> list) {
  switch(list.size()) {
  case 0: return java.util.Collections.emptyList();
  case 1: return java.util.Collections.singletonList(list.get(0));
  default:
    if (clone) {
      return java.util.Collections.unmodifiableList(new java.util.ArrayList<T>(list));
    } else {
      return java.util.Collections.unmodifiableList(list);
    }
  }
}

private static <T> java.util.Set<T> createUnmodifiableSet(java.util.List<T> list) {
  switch(list.size()) {
  case 0: return java.util.Collections.emptySet();
  case 1: return java.util.Collections.singleton(list.get(0));
  default:
    java.util.Set<T> set = new java.util.LinkedHashSet<T>(list.size());
    set.addAll(list);
    return java.util.Collections.unmodifiableSet(set);
  }
}
```

```java
if ($if(type.isUseListUtility())) {
  return list;
}

if ($if(type.isUseSetUtility())) {
  Set<T> set = new java.util.LinkedHashSet<T>(list.size());
  set.addAll(list);
  return java.util.Collections.unmodifiableSet(set);
}
```
if ($if(type.isUseEnumSetUtility()) {  
  if (iterable instanceof java.util.EnumSet<?>) {  
    return java.util.Collections.unmodifiableSet(java.util.EnumSet.copyOf((java.util.EnumSet<T>) iterable));  
  } else {  
    java.util.List<T> list = createSafeList(iterable, true, false);  
    switch(list.size()) {  
      case 0: return java.util.Collections.emptySet();  
      case 1: return java.util.Collections.singleton(list.get(0));  
      default: return java.util.Collections.unmodifiableSet(java.util.EnumSet.copyOf(list));  
    }  
  }  
}
```java
private static <T extends Comparable<T>> java.util.Set<T> createUnmodifiableSortedSet(boolean reverse, java.util.List<T> list) {

  java.util.TreeSet<T> set = reverse ? new java.util.TreeSet<>(java.util.Collections.reverseOrder()) : new java.util.TreeSet<>();
  set.addAll(list);
  return java.util.Collections.unmodifiableSet(set);
}

if (type.isUseMapUtility()) {
    switch (map.size()) {
      case 0: return java.util.Collections.emptyMap();
      case 1: {
        java.util.Map.Entry<? extends K, ? extends V> e = map.entrySet().iterator().next();
        K k = e.getKey();
        V v = e.getValue();
        if (checkNulls) {
          requireNonNull(type, k, "key");
          requireNonNull(type, v, "value");
        }
        if (skipNulls && (k == null || v == null)) {
          return java.util.Collections.emptyMap();
        }
        return java.util.Collections.singletonMap(k, v);
      }
      default: {
        java.util.LinkedHashMap<K, V> linkedMap = new java.util.LinkedHashMap<>(map);
        if (checkNulls) {
          requireNonNull(type, k, "key");
        }
        if (skipNulls)
```
```java
__.out("(map.size());").ln();
__.out(" if (skipNulls || checkNulls) {").ln();
__.out(" K k = e.getKey();").ln();
__.out(" V v = e.getValue();").ln();
__.out(" if (skipNulls) {").ln();
__.out(" if (k == null || v == null) continue;".ln();
__.out(" } else if (checkNulls) {").ln();
__.out(" ");
$.(__, requireNonNull, type);
__.out("(k, "key");").ln();
__.out(" ");
$.(__, requireNonNull, type);
__.out("(v, "value");").ln();
__.out(" ");
}.ln();
__.out(" }").ln();
__.out(" linkedMap.put(k, v);");.ln();
__.out(" } else {");.ln();
__.out(" linkedMap.putAll(map);");.ln();
__.out(" ");.ln();
__.out(" return java.util.Collections.unmodifiableMap(linkedMap);");.ln();
__.out(" ");.ln();
__.out(" ");.ln();
}
__.dl();__.ln();
__.dl();
if ($if(type.isUseEnumMapUtility())) {
  __.dl();__.ln();
  __.ln();
  __.out(" if (map.isEmpty()) return java.util.Collections.emptyMap();");.ln();
  __.out(" java.util.EnumMap<K, V> enumMap = new java.util.EnumMap<");.ln();
  $(__, asDiamond, "K, V");
  __.out(");
  __.out("(map);");.ln();
  __.out(" if (checkNulls || skipNulls) {");.ln();
  __.out(" java.util.Iterator<? extends V> it = map.values().iterator();");.ln();
  __.out(" while(it.hasNext()) {");.ln();
  __.out(" V v = it.next();");.ln();
  __.out(" if (checkNulls) {");.ln();
  __.out(" ");
  $.(__, requireNonNull, type);
  __.out("(v, "value");");.ln();
  __.out(" } else if (skipNulls) {");.ln();
  __.out(" if (v == null) it.remove();");.ln();
  __.out(" ");.ln();
```
if ($if(type.isUseSortedMapUtility())) {
    final org.immutables.generator.Templates.Invokable unmodifiableSortedMapInterface = new org.immutables.generator.Templates.Fragment(0) {
        @Override public void run(org.immutables.generator.Templates.Invokation __) {
            final org.immutables.generator.Templates.Invokable unmodifiableSortedMapInterface = this;
            if ($if($(classpath.available, "java.lang.FunctionalInterface"))) {
                __.dl();___.ln();
                __.dl();___.ln();
            } else {
                __.dl();___.ln();
                __.dl();
            }
        }
    };
    ___.dl();___.ln();
}

private static <K extends Comparable<K>, V> java.util.
    $(__, unmodifiableSortedMapInterface);
    __.out("<K, V> createUnmodifiableSortedMap(boolean reverse, boolean checkNulls, boolean skipNulls, java.util.Map<? extends K, ? extends V> map) {").ln();
    __.out("java.util.TreeMap<K, V> sortedMap = reverse").ln();
    __.out("? new java.util.TreeMap");
    $(__, asDiamond, "K, V");
    __.out("java.util.Collections.reverseOrder()").ln();
    __.out(": new java.util.TreeMap");
    $(__, asDiamond, "K, V");
    __.out(";").ln();
    __.ln();
    __.out("if (checkNulls || skipNulls) {").ln();
    __.out("K k = e.getKey();").ln();
}
```java
__.out("  V v = e.getValue();").ln();
__.out("  if (skipNulls) {").ln();
__.out("    if (k == null || v == null) continue;").ln();
__.out("  } else if (checkNulls) {").ln();
__.out("    ");
$___.requireNonNull(type);
__.out("    (k, "key");").ln();
$___.requireNonNull(type);
__.out("    (v, "value");").ln();
__.out("  }").ln();
__.out("  sortedMap.put(k, v);").ln();
__.out("  }").ln();
__.out("  }").ln();
__.out("  else {").ln();
__.out("    ");___.requireNonNull(sortedMap);
__.out("    return java.util.Collections.unmodifiable;");
$___.unmodifiableSortedMapInterface;
__.out("    (sortedMap);").ln();
__.out("  };").ln();
}
__.dl();__.ln();
__.dl();
};

public org.immutables.generator.Templates.Invokable javadocGenerics() { return javadocGenerics; }
private final org.immutables.generator.Templates.Invokable javadocGenerics = new FragmentDispatch(1, 74);
void _t74__javadocGenerics(org.immutables.generator.Templates.Invokation __) {
  final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  __.ln();
  {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
   for (final java.lang.String p : $in(type.generics().vars())) {
     __.dl();__.ln();
     __.dl();
    }
  }
  __.dl();__.ln();
  __.dl();
}
org.immutables.generator.Templates.Invokable defineOrResetBuildingField() { return defineOrResetBuildingField;
}
```
private final org.immutables.generator.Templates.Invokable defineOrResetBuildingField = new FragmentDispatch(2, 75);
void _t75__defineOrResetBuildingField(org.immutables.generator.Templates.Invokation __) {
  _.dl();final org.immutables.value.processor.meta.ValueAttribute v = $cast(_.param(0));
  final java.lang.Boolean declare = $if(_.param(1));
  ${(_, defineOrResetBuildingFieldAlt, v, declare, $$false);
  _.dl();
};

org.immutables.generator.Templates.Invokable defineOrResetBuildingFieldAlt() { return defineOrResetBuildingFieldAlt; }
private final org.immutables.generator.Templates.Invokable defineOrResetBuildingFieldAlt = new FragmentDispatch(3, 76);
void _t76__defineOrResetBuildingFieldAlt(org.immutables.generator.Templates.Invokation __) {
  _.dl();final org.immutables.value.processor.meta.ValueAttribute v = $cast(_.param(0));
  final java.lang.Boolean declare = $if(_.param(1));
  final java.lang.Boolean toNull = $if(_.param(2));
  _.ln();
  final org.immutables.generator.Templates.Invokable accessModifier = new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
    _.dl();final org.immutables.generator.Templates.Invokable accessModifier = this;
    _.dl();
    if ($if(v.containingType.getInnerBuilder().isAccessibleFields)) {
    _.dl();_.out("protected");
    } else {
    _.dl();_.out("private");
    }
    _.dl();_.dl();
  };_.dl();_.ln();
} final org.immutables.generator.Templates.Invokable updatableAccessModifier = new org.immutables.generator.Templates.Fragment(0) {
  @Override public void run(org.immutables.generator.Templates.Invokation __) {
  _.dl();final org.immutables.generator.Templates.Invokable updatableAccessModifier = this;
  _.dl();
  if ($if(${v.containingType.isUseStrictBuilder(), andnot, toNull})) {
  _.dl();_.out(" final");
  }
  _.dl();_.dl();
} };_.dl();_.ln();
_.out(" ");
_.dl();
if ($if(${v.isJdkOptional(), and, v.containingType.kind().isFactory()}) { 
  _.dl();_.ln();
  _.out(" ");
  _.dl();
}
```java
if ($if(declare)) {
  __dl();$___.accessModifier);
  ___.dl();$___.v.getType());
  ___.out(" ");
} else {
  ___.dl();_.out("this.");
}

___.dl();_.v.name());
___.out(" = ");
{final org.immutables.value.processor.meta.ValueAttribute a_optionalEmpty_1867206284 = $cast(v);
  ___.a_optionalEmpty_1867206284.getRawType());
  ___.out(".");
  ___.dl();
  if ($if(a_optionalEmpty_1867206284.isJdkOptional()) {
    ___.dl();_.out("empty");
  } else if ($if($(a_optionalEmpty_1867206284.isFugueOptional(), or,
    a_optionalEmpty_1867206284.isJavaslangOptional())) {
    ___.dl();_.out("none");
  } else {
    ___.dl();_.out("absent");
  }
}
___.dl();_.out("()");

_.out(";");ln();
___.out(" ");
} else if ($if($(v.isJdkOptional(), and, v.isAttributeBuilder()))) {
  ___.dl();___.dl();_.ln();
  ___.dl();
  if ($if($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable")) {
    ___.dl();___.dl();_.ln();
  } else if ($if(s_isJdkOptional(), and, s_isAttributeBuilder())) {
    ___.dl();___.dl();_.ln();
  } else if ($if(s_isJdkOptional(), and, s_isAttributeBuilder())) {
    ___.dl();___.dl();_.ln();
    if ($if(declare)) {
      ___.dl();___.ln();
      ___.accessModifier);
      ___.out(" ");
    }
}
```

{final org.immutables.value.processor.meta.AttributeBuilderDescriptor
  n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());
  $(__, n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());
}

  .out(" ");
$(__, v.name());
  .out(";").ln();
  .out(" ");
}

} else {
  .dl(); .ln();
  .out("this.");
$(__, v.name());
  .out(" = null;").ln();
  .out(" ");
}

).dl(); .ln();
  .out(" ");
} else if ($if(v.isJdkOptional())) {
  .dl(); .dl(); .ln();
  .out(" ");
  .dl();
if ($if(declare)) {
  .dl(); .ln();
$(__, accessModifier);
  .out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);
    .dl();
  if ($if($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable"))) {
    .dl(); .out("@javax.annotation.Nullable ");
  }

  .dl();
}
$(__, v.getWrappedElementType());
  .out(" ");
$(__, v.name());
  .out(";").ln();
  .out(" ");
}

} else {
  .dl(); .ln();
  .out("this.");
$(__, v.name());
  .out(" = null;").ln();
  .out(" ");
}
if ($if(v.isOptionalType())) {
  __.dl();___.ln();
  __.out("    ");
  __.dl();
  if ($if(v.isGenerateJdkOnly())) {
    __.dl();___.ln();
    __.out("      ");
    __.dl();
  }
  else {
    __.dl();___.ln();
    __.out(" this.");
  }
  __.dl();$(__, accessModifier);
  __.out(" ");
  $(__, v.getType());
  __.out(" ");
}
else {
  __.dl();___.ln();
  __.out("    ");
  __.dl();
  if ($if(a_optionalEmpty_1867206284.isJdkOptional())) {
    __.dl();___.out("empty");
  } else if ($if($(a_optionalEmpty_1867206284.isFugueOptional(), or, a_optionalEmpty_1867206284.isJavaslangOptional()))) {
    __.dl();___.out("none");
  } else {
    __.dl();___.out("absent ");
  }
}
___.out(" ").ln();
___.out(" ");
} else if ($if($(!v.isNullableCollector(), or, v.isNullableCollector()))) {
  __.dl();___.ln();
  __.out(" ");
__.out("this.");
$___.name();
__.out("clear;").ln();
__.out(" ");
} else if ($if(v.isGenerateEnumMap())) {
  __.dl();__.ln();
  __.dl();
  if ($if(declare)) {
    __.dl();$___.updatableAccessModifier;
    __.out(" java.util.EnumMap<");
    $___.getWrappedElementType();
    __.out(" ");
    $___.getWrappedSecondaryElementType();
    __.out(">");
  } else {
    __.dl();__.out("this.");
  }
}
___.dl();$___.v.name();
__.out(" = ");
__.dl();
if ($if(toNull)) {
  __.dl();__.out("null");
} else {
  __.dl();__.out("new java.util.EnumMap<");
  $___.getWrappedElementType();
  __.out(" ");
  $___.getWrappedSecondaryElementType();
  __.out(">");
  $___.getWrappedElementType();
  __.out(".
class");
}
___.dl();__.out(";").ln();
__.out(" ");
} else if ($if(v.isMapType())) {
  __.dl();__.ln();
  __.dl();
  if ($if(declare)) {
    __.dl();$___.updatableAccessModifier;
    __.out(" java.util.Map<");
    $___.getWrappedElementType();
    __.out(" ");
    $___.getWrappedSecondaryElementType();
    __.out(">");
  } else {
    __.dl();__.out("this.");
  }
}
else {
  __dl();__out("this.");
}

__dl();$___.v.name();
__out(" = ");
__dl();
if ($if(toNull)) {
  __dl();__out("null");
} else {
  __dl();__out("new java.util.LinkedHashMap<");
  __out(___.v.getWrappedElementType());
  __out(", ");
  __out(___.v.getWrappedSecondaryElementType());
  __out(">()");
  __dl();__out(";").ln();
}

else if ($if(v.isGenerateEnumSet())) {
  __dl();__ln();
  __dl();
  if ($if(declare)) {
    __dl();$___.updateableAccessModifier;
    __out(" java.util.EnumSet");
    __out(" java.util.EnumSet");
  } else {
    __dl();__out("this.");
  }

  __dl();$___.v.name();
  __out(" = ");
  __dl();
  if ($if(toNull)) {
    __dl();__out("null");
  } else {
    __dl();__out("java.util.EnumSet.noneOf(");
    __out(___.v.getElementType());
    __out(".class")
    __dl();__out(";").ln();
  }

} else {
  __dl();__out("this.");
}
} else {
    __dl();__ln();
    __out("    ");
    __dl();
    if ($if(v.isAttributeBuilder()) {  
    __dl();__ln();
    __dl();
    if ($if(declare)) {
        __dl();$__updatableAccessModifier;
        __out(" java.util.List<");
        \{final org.immutables.value.processor.meta.AttributeBuilderDescriptor
            n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());
            $(___. n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());
    }
    __out(" > ");
    }
    } else {
    __dl();__out("this.");
    }
    __dl();$__v.name();
    __out(" = ");
    __dl();
    if ($if(toNull)) {
        __dl();__out("null");
    } else {
        __dl();__out("new java.util.ArrayList<");
        \{final org.immutables.value.processor.meta.AttributeBuilderDescriptor
            n_attributeBuilderBuilderType_1431666641 = $cast(v.getAttributeBuilderDescriptor());
            $(___. n_attributeBuilderBuilderType_1431666641.getQualifiedBuilderTypeName());
    }
    __out(">()");
    }
    __out(";").ln();
    __out("  ");
  }
} else {
    __dl();__ln();
    __dl();
    if ($if(declare)) {
        __dl();$__updatableAccessModifier;
        __out(" java.util.List");
        $(___. v.getGenericArgs());
        __out(" ");
    }
} else {
    __.dl();___.out("this.");
}

___.dl();$___.out("_v.name();
    ___.out(" = ");
    __.dl();
    if (Sif(toNull)) {
        ___.dl();___.out("null");
    } else {
        ___.dl();___.out("new java.util.ArrayList");
        $___.v.getGenericArgs();
        ___.out("()");
    }

    ___.dl();___.out(";").ln();
    ___.out(" ");
}

___.dl();___.ln();
    ___.out(" ");
}

___.dl();___.ln();
    ___.out(" ");
}

} else {
    ___.dl();___.ln();
    ___.out(" ");
    __.dl();
    if (Sif(v.isGenerateSortedSet())) {
        ___.dl();___.ln();
        __.dl();
        if (Sif(declare)) {
            __.dl();$___.updatableAccessModifier;
            ___.out(" ");
            $(___.guava);
            __.out(".collect.ImmutableSortedSet.Builder");
            $___.v.getGenericArgs();
            ___.out(" ");
        } else {
            ___.dl();___.out("this.");
        }
    }
}

___.dl();$___.v.name();
if ($if(toNull)) {
    __.dl();__.out("null");
} else {
    __.dl();$___.guava();
    __.out("_.collect.ImmutableSortedSet.");
    __.dl();
    if ($if(v.hasNaturalOrder())) {
        __.dl();__.out("naturalOrder");
    } else {
        __.dl();__.out("reverseOrder");
    }
    __.dl();__.out("()");
}
___.dl();__.out(";").ln();
___.out(" ");
} else if ($if(v.isGenerateSortedMultiset())) {
    __.dl();__.ln();
    __.dl();
    if ($if(declare)) {
        __.dl();$___.guava();
        __.out("_.collect.ImmutableSortedMultiset.Builder");
        $(___.v.getGenericArgs());
        __.out(" ");
    } else {
        __.dl();this.;
        ___.v.name();
        __.out(" = ");
        __.dl();
        if ($if(toNull)) {
            __.dl();__.out("null");
        } else {
            __.dl();$___.guava();
            __.out("_.collect.ImmutableSortedMultiset.");
            __.dl();
            if ($if(v.hasNaturalOrder())) {
                __.dl();__.out("naturalOrder");
            } else {
                __.dl();__.out("reverseOrder");
            }
            __.dl();__.out("()");
        }
        __.dl();__.out(";");
    }
}
} else if ($if(v.isCustomCollectionType())) {
    __.dl();___.ln();
    __.dl();
    if ($if(declare)) {
        __.dl();$(__, updatableAccessModifier);
        __.out(" ");
        $(__, v.getRawType());
        __.out(".Builder");
        $(__, v.getGenericArgs());
        __.out(" ");
    } else {
        __.dl();___.ln();
        __.dl();
    }
}

} else if ($if(toNull)) {
    __.dl();__.ln();
    __.out("null");
} else {
    __.dl();$(__, v.getRawType());
    __.out(".builder()");
}

} else if ($if(toNull)) {
    __.dl();__.ln();
    __.out("null");
} else {
    __.dl();$(__, v.getRawType());
    __.out(".Builder");
}

} else if ($if(v.isCollectionType())) {
    __.dl();__.ln();
    __.dl();
    if ($if(v.isAttributeBuilder())) {
        __.dl();__.ln();
        __.dl();
    }
}

} else if ($if(v.isCollectionType())) {
    __.dl();__.ln();
    __.out(" ");
} else if ($if(v.isAttributeBuilder())) {
    __.dl();__.ln();
    __.dl();
    if ($if(declare)) {
        __.dl();$(__, updatableAccessModifier);
        __.out(" ");
    }
__dl();$(__, v.name());
__out(" = ");
__dl();
if ($if(toNull)) {
  __dl();__out("null");
} else {
  __dl();$(__, guava);
  __out(">.collect.Immutable");
$(__, v.getRawCollectionType());
  __out(">.builder()");
}
__dl();__out(";").ln();
__out("    ");

__dl();__ln();
__out("    ");
} else if ($if(v.isOptionalType())) {
  __dl();__ln();
  __dl();
  if ($if(declare)) {
    __dl();$(__, accessModifier);
    __out(" ");
  } else {
    __dl();__out("this.");
  }
}
__dl();$(__, v.name());
__out(" = ");
final org.immutables.value.processor.meta.ValueAttribute a_optionalEmpty_1867206284 = $cast(v);
$___.a_optionalEmpty_1867206284.getRawType();
__out(".");
__dl();
if ($if(a_optionalEmpty_1867206284.isJdkOptional())) {
  __dl();__out("empty");
} else if ($if($(a_optionalEmpty_1867206284.isFugueOptional(), or, a_optionalEmpty_1867206284.isJavaslangOptional()))) {
  __dl();__out("none");
} else {
  __dl();__out("absent");
}
}
$(__, guava);
__out(".collect.Immutable");
$(__, v.getRawMapType());
__out(".Builder");
$(__, v.getGenericArgs());
__out(" ");
} else {
    __dl();__out("this.");

}
__dl();$(__, v.name());
__out(" = ");
__dl();
if ($if(toNull)) {
    __dl();__out("null");
} else {
    __dl();$(__, guava);
    __out(".collect.Immutable");
$(__, v.getRawMapType());
    __out(".builder()");
}
__dl();__out(";").ln();
__out(" ");
}
__dl();__ln();
__out(" ");
}
__dl();__ln();
__out(" ");
} else if ($if(v.isPrimitive())) {
    __dl();__ln();
    __out(" ");
    __dl();
    if ($if(declare)) {
        __dl();__ln();
        $(__, accessModifier);
        __out(" ");
        $(__, v.getType());
        __out(" ");
        $(__, v.name());
        __out(";").ln();
        __out(" ");
    } else if ($if(v.isBoolean())) {

```java
__.dl();__.ln();
__.out("this.");
$___.v.name();
__.out(" = false;").ln();
__.out(" ");
}

} else {
__.dl();__.ln();
__.out("this.");
$___.v.name();
__.out(" = 0;").ln();
__.out(" ");
}

} else if ($if(v.isAttributeBuilder())) {
__.dl();__.ln();
__.out(" ");
__.dl();
if ($if(declare)) {
__.dl();__.ln();
$.accessModifier;
__.out(" ");
{final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(v);
__.dl();
if ($if($(s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable"))) {
__.dl();__.out("@javax.annotation.Nullable ");
}
}
}

} else {
__.dl();__.ln();
$.v.name();
__.out(";").ln();
__.out(" ");
}

} else {
__.dl();__.ln();
__.out("this.");
$___.v.name();
__.out(" = null;").ln();
__.out(" ");
}
```
org.immutables.generator.Templates.Invokable createBuilderForCollection() { return createBuilderForCollection; }
private final org.immutables.generator.Templates.Invokable createBuilderForCollection = new FragmentDispatch(3, 77);
void _t77__createBuilderForCollection(org.immutables.generator.Templates.Invocation __) {
  __dl(); final org.immutables.value.processor.meta.ValueType type = $cast(__param(0));
}
final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(1));
final java.lang.String variableName = __.param(2).toString();

__.ln();
__.dl();
if ($if(a.isMapType())) {
  __.dl();__.ln();
  __.out("  ");
  __.dl();
  if ($if($(type.isGenerateJdkOnly(), or, a.typeKind().isSortedKind())))) {
    __.dl();__.ln();
    __.out("java.util.Map");
    $(__, a.getGenericArgs());
    __.out(" ");
    $(__, variableName);
    __.out(" = new java.util.LinkedHashMap");
    $(__, a.getGenericArgs());
    __.out(";").ln();
    __.out(" ");
  } else {
    __.dl();__.ln();
    $(__, guava);
    __.out(".collect.Immutable");
    $(__, a.getRawMapType());
    __.out(".Builder");
    $(__, a.getGenericArgs());
    __.out(" ");
    $(__, variableName);
    __.out(" = ");
    $(__, guava);
    __.out(".collect.Immutable");
    $(__, a.getRawMapType());
    __.out(".builder();").ln();
    __.out(" ");
  }
} else if ($if(a.isCollectionType())) {
  __.dl();__.ln();
  __.out("  ");
  __.dl();
  if ($if(a.isCustomCollectionType())) {
    __.dl();__.ln();
    $(__, a.getRawType());
    __.out(".Builder");
    $(__, a.getGenericArgs());
    __.out(" ");
    $(__, variableName);
  } else if ($if(a.isCustomCollectionType())) {
    __.dl();__.ln();
    $(__, a.getRawType());
    __.out(".Builder");
    $(__, a.getGenericArgs());
    __.out(" ");
    $(__, variableName);
  } else if ($if(a.isCustomCollectionType())) {
    __.dl();__.ln();
    $(__, a.getRawType());
    __.out(".Builder");
    $(__, a.getGenericArgs());
    __.out(" ");
    $(__, variableName);
  }
private final org.immutables.generator.Templates.Invokable createBuiltCollection = new FragmentDispatch(3, 78);
void _78__createBuiltCollection(org.immutables.generator.Templates.Invokation __) {
  __dl(); __ln();
  final org.immutables.value.processor.meta.ValueType type = __cast(__param(0));
  final org.immutables.value.processor.meta.ValueAttribute a = __cast(__param(1));
  final java.lang.String variableName = __param(2).toString();
  __dl(); final org.immutables.value.processor.meta.ValueType type = __cast(__param(0));
  final org.immutables.value.processor.meta.ValueAttribute a = __cast(__param(1));
  final java.lang.String variableName = __param(2).toString();
 __$(__, output.trim, new org.immutables.generator.Templates.Fragment(0) {
    @Override public void run(org.immutables.generator.Templates.Invokation __) {
      __dl(); __ln();
    }
  });
}
if (Slf($is(a.isMapType(), or, a.isCollectionType()))) {
    __.dl();__.ln();
    __.out("  ");
    __.dl();
    if (Slf($is(type.isGenerateJdkOnly(), or, a.typeKind().isSortedKind()))) {
        __.dl();__.ln();
        __.out("    ");
        $(__, variableName);
        __.ln();
        __.out("  ");
    } else {
        __.dl();__.ln();
        __.out("    ");
        $(__, variableName);
        __.ln();
    }
}
___.dl();___.ln();

} else {
    __.dl();__.ln();
    __.out("  ");
    $(__, variableName);
    __.ln();
}
___.dl();___.ln();___.dl();
}));
___.dl();

org.immutables.generator.Templates.Invokable serialVersionUID() { return serialVersionUID; }
private final org.immutables.generator.Templates.Invokable serialVersionUID = new FragmentDispatch(1, 79);
void _t79__serialVersionUID(org.immutables.generator.Templates.Invokation __) {
    __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    __.ln();
    {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
        final java.lang.Long serialVersion = $cast(type.serialVersionUID());
        __.dl();__.ln();
        if (Slf(serialVersionUID)) {
            __.dl();__.ln();
            __.ln();
        }
        __.ln();
        __.ln();
        __.ln();
        __.ln();
    }
}
private static final long serialVersionUID = $(__, literal, serialVersion);
__.out(";").ln();
__.out(" ");

__.dl();__.ln();
__.dl();_it1.index++;
_it1.first = false;
}
__.dl();__.ln();
__.dl();

org.immutables.generator.Templates.Invokable suppressCovariantCastForOptional() { return suppressCovariantCastForOptional; }
private final org.immutables.generator.Templates.Invokable suppressCovariantCastForOptional = new FragmentDispatch(1, 80);
void _t80__suppressCovariantCastForOptional(org.immutables.generator.Templates.Invokation __) {
 __.dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
 __.ln();
 __.dl();
  if ($if(a.isSafeUncheckedCovariantCast())) {
    __.dl();__.ln();
    __.out("@SuppressWarnings("unchecked") // safe covariant cast").ln();
  }
}

org.immutables.generator.Templates.Invokable suppressAnyCovariantCastForOptional() { return suppressAnyCovariantCastForOptional; }
private final org.immutables.generator.Templates.Invokable suppressAnyCovariantCastForOptional = new FragmentDispatch(1, 81);
void _t81__suppressAnyCovariantCastForOptional(org.immutables.generator.Templates.Invokation __) {
  __.dl();final java.lang.Iterable<org.immutables.value.processor.meta.ValueAttribute> as = $cast(__.param(0));
  __.ln();
  {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
   for (final org.immutables.value.processor.meta.ValueAttribute a : $in(as)) {
     __.dl();__.ln();
     if ($if(_it1.first)) {
       __.dl();__.ln();
       __.out("@SuppressWarnings("unchecked") // safe covariant cast").ln();
     }
  }
}
org.immutables.generator.Templates.Invokable eachLine() { return eachLine; }
private final org.immutables.generator.Templates.Invokable eachLine = new FragmentDispatch(1, 82);
void _t82__eachLine(org.immutables.generator.Templates.Invokation __) {
  __dl();final java.lang.Iterable<java.lang.Object> lines = $cast(__.param(0));
  {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
   for (final java.lang.Object l : $in(lines)) {
     __dl();__ln();
     ((___, l);
     __ln();
     __dl();_it1.index++;
     _it1.first = false;
   }
  }
  __dl();__ln();
  __dl();
};
org.immutables.generator.Templates.Invokable atGenerated() { return atGenerated; }
private final org.immutables.generator.Templates.Invokable atGenerated = new FragmentDispatch(1, 83);
void _t83__atGenerated(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  __ln();
  __dl();
  if ($if($(type, allowsClasspathAnnotation, "org.immutables.value.Generated"))) {
    __dl();__ln();
    __out("@org.immutables.value.Generated(from = ", generator = "Immutables\")").ln();
  }
  __dl();__ln();
  __dl();
};
org.immutables.generator.Templates.Invokable atElementNullable() { return atElementNullable; }
private final org.immutables.generator.Templates.Invokable atElementNullable = new FragmentDispatch(1, 84);
void _t84__atElementNullable(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
  __dl();
  if ($if($(not, a.nullElements.ban()))) {
    __dl();{final org.immutables.value.processor.meta.HasStyleInfo s_atNullable_105894042 = $cast(a);
      __dl();
    }
  }
  __dl();__ln();
  __dl();
};
if ($if($s_atNullable_105894042, allowsClasspathAnnotation, "javax.annotation.Nullable")) {
  __dl();__out("@javax.annotation.Nullable ");
}
__dl();
}
__dl();__dl();
}
org.immutables.generator.Templates.Invokable topSimplePrefix() { return topSimplePrefix; }
private final org.immutables.generator.Templates.Invokable topSimplePrefix = new FragmentDispatch(1, 85);
void _t85__topSimplePrefix(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  __dl();
  if ($if(topLevelSimple)) {
    __dl();$___.topLevelSimple;
    __out(".");
  } else {
    __dl();$___.type.getTopSimple();
    __out(".");
  }
  __dl();__dl();
};
org.immutables.generator.Templates.Invokable maybeCopyOf() { return maybeCopyOf; }
private final org.immutables.generator.Templates.Invokable maybeCopyOf = new FragmentDispatch(2, 86);
void _t86__maybeCopyOf(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
  final java.lang.String expression = __.param(1).toString();
  __dl();
  if ($if(v.isGenerateImmutableCopyOf)) {
    __dl();__out("immutableCopyOf("");
    $(___.expression);
    __out(")");
  } else {
    __dl();$(___.expression);
  }
  __dl();__dl();
};
org.immutables.generator.Templates.Invokable maybeNonNullValue() { return maybeNonNullValue; }
private final org.immutables.generator.Templates.Invokable maybeNonNullValue = new FragmentDispatch(2, 87);
void _t87__maybeNonNullValue(org.immutables.generator.Templates.Invokation __) {
    __dl();final org.immutables.value.processor.meta.ValueAttribute v = $cast(__.param(0));
    final java.lang.String expression = __.param(1).toString();
    __dl();
    if ($if($(v.isPrimitive(), or, v.isNull)) {  
        __dl();$__(_v, expression);
    } else {
        __dl();$__(_v, requireNonNull, v.containingType);
        __out("(");
        $__(_v, expression);
        __out(". v=");
        $__(_v, v.name());
        __out(")");
    }
    __dl();__dl();
}

org.immutables.generator.Templates.Invokable builderReturnThis() { return builderReturnThis; }
private final org.immutables.generator.Templates.Invokable builderReturnThis = new FragmentDispatch(1, 88);
void _t88__builderReturnThis(org.immutables.generator.Templates.Invokation __) {
    __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    __dl();
    if ($if(type.getInnerBuilder().isExtending)) {
        __dl();$__out("(");
        $__(_v, type.typeBuilder());
        __out(") ");
    }
    __dl();__out("this");
    __dl();
}

org.immutables.generator.Templates.Invokable builderReturnType() { return builderReturnType; }
private final org.immutables.generator.Templates.Invokable builderReturnType = new FragmentDispatch(1, 89);
void _t89__builderReturnType(org.immutables.generator.Templates.Invokation __) {
    __dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
    __dl();
    if ($if(type.getInnerBuilder().isExtending)) {
        __dl();$__(_v, type.typeBuilder());
    } else {
        $__(_v, type.typeBuilder().simple());
        $__(_v, type.generics().args());
    }
    __dl();__dl();
org.immutables.generator.Templates.Invokable attributeBuilderBuilderType() { return attributeBuilderBuilderType; }
private final org.immutables.generator.Templates.Invokable attributeBuilderBuilderType = new FragmentDispatch(1, 90);

void _t90__attributeBuilderBuilderType(org.immutables.generator.Templates.Invokation __) {
  __.dl(); final org.immutables.value.processor.meta.AttributeBuilderDescriptor n = $cast(__.param(0));
  __.dl();
}

org.immutables.generator.Templates.Invokable createAttributeBuilder() { return createAttributeBuilder; }
private final org.immutables.generator.Templates.Invokable createAttributeBuilder = new FragmentDispatch(1, 91);

void _t91__createAttributeBuilder(org.immutables.generator.Templates.Invokation __) {
  __.dl(); final org.immutables.value.processor.meta.AttributeBuilderDescriptor n = $cast(__.param(0));
  __.dl();
}

org.immutables.generator.Templates.Invokable validated() { return validated; }
private final org.immutables.generator.Templates.Invokable validated = new FragmentDispatch(3, 92);

void _t92__validated(org.immutables.generator.Templates.Invokation __) {
  __.dl(); final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final java.lang.Boolean qualified = $if(__.param(1));
  final java.lang.String expression = __.param(2).toString();
  __.dl();
  if ($if(type.isUseValidation())) {
    __.dl();
    if ($if(qualified)) {
      __.dl(); $(__, type.typeImmutable().relativeRaw());
      __.out(".");
    }
    __.dl();
    __.out("validate(");
    $(__, expression);
    __.out("");
  } else {
    __.dl(); $(__, expression);
  }
  __.dl();
}

org.immutables.generator.Templates.Invokable builderInitAccess() { return builderInitAccess; }
private final org.immutables.generator.Templates.Invokable builderInitAccess = new FragmentDispatch(1, 93);
void _t93__builderInitAccess(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
  __dl();
  if ($if($a.isBuilderParameter, or, a.isBuilderSwitcher())) {
    __dl();__dl();
    if ($if(a.containingType.kind().isFactory())) {
      __dl();__out("private ");
    }
    __dl();
  } else {
    __dl();$__ a.getIntializerAccess();
  }
  __dl();__dl();
}

org.immutables.generator.Templates.Invokable invokeSuper() { return invokeSuper; }
private final org.immutables.generator.Templates.Invokable invokeSuper = new FragmentDispatch(1, 94);
void _t94__invokeSuper(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
  {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
    final java.lang.String di = $cast(a.defaultInterface());
    __dl();__dl();
    if ($if(di)) {
      __dl();$__ di;
      __out(".");
    }
    __dl();__dl();_it1.index++;
    _it1.first = false;
  }__out("super");
  __dl();
}

org.immutables.generator.Templates.Invokable invokeSuperQualified() { return invokeSuperQualified; }
private final org.immutables.generator.Templates.Invokable invokeSuperQualified = new FragmentDispatch(1, 95);
void _t95__invokeSuperQualified(org.immutables.generator.Templates.Invokation __) {
  __dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
  ${__, a.containingType.typeImmutable().simple();}
  __out(".super");
  __dl();
}

org.immutables.generator.Templates.Invokable sourceDocRef() { return sourceDocRef; }
private final org.immutables.generator.Templates.Invokable sourceDocRef = new FragmentDispatch(1, 96);
void _t96__sourceDocRef(org.immutables.generator.Templates.Invokation __) {
final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));

{final org.immutables.value.processor.meta.ValueAttribute a_sourceDocLink_990947650 = $cast(a);
 final java.lang.String label_sourceDocLink_990947650 = $cast(a.names.raw);
__}dl();

if ($if(a_sourceDocLink_990947650.containingType.kind().isValue())) {
  __}dl();__out("[@link ");
$(__, a_sourceDocLink_990947650.containingType.typeDocument().relativeRaw());
__out("#");
$(__, a_sourceDocLink_990947650.names.get);
__out("() ");
$(__, label_sourceDocLink_990947650);
__out(""");
} else {
  __}dl();__out("[@code ");
$(__, label_sourceDocLink_990947650);
__out("]"");
}
__}dl();
}
__}dl();
};

org.immutables.generator.Templates.Invokable sourceDocLink() { return sourceDocLink; }
private final org.immutables.generator.Templates.Invokable sourceDocLink = new FragmentDispatch(2, 97);

void _t97__sourceDocLink(org.immutables.generator.Templates.Invokation __) {
  __}dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
 final java.lang.String label = __.param(1).toString();
 __}dl();
if ($if(a.containingType.kind().isValue())) {
  __}dl();__out("[@link ");
$(__, a.containingType.typeDocument().relativeRaw());
__out("#");
$(__, a.names.get);
__out("() ");
$(__, label);
__out(""");
} else {
  __}dl();__out("[@code ");
$(__, label);
__out("]"");
}
__}dl();__}dl();
}
org.immutables.generator.Templates.Invokable optionalGet() { return optionalGet; }
private final org.immutables.generator.Templates.Invokable optionalGet = new FragmentDispatch(1, 98);
void _t98__optionalGet(org.immutables.generator.Templates.Invocation __) {
  ___dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
  ___dl();
  if ($if(a.isJdkSpecializedOptional())) {
    ___dl();___out("getAs");
    $(___, toUpper, a.getElementType());
  } else {
    ___dl();___out("get");
  }
  ___dl();___out("()");___dl();
};

org.immutables.generator.Templates.Invokable optionalEmpty() { return optionalEmpty; }
private final org.immutables.generator.Templates.Invokable optionalEmpty = new FragmentDispatch(1, 99);
void _t99__optionalEmpty(org.immutables.generator.Templates.Invocation __) {
  ___dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
  __out(".");
  if ($if(a.isJdkOptional())) {
    ___dl();___out("empty");
  } else if ($if($(a.isFugueOptional(), or, a.isJavaslangOptional()))) {
    ___dl();___out("none");
  } else {
    ___dl();___out("absent");
  }
  ___dl();___out("()");___dl();
};

org.immutables.generator.Templates.Invokable optionalOf() { return optionalOf; }
private final org.immutables.generator.Templates.Invokable optionalOf = new FragmentDispatch(1, 100);
void _t100__optionalOf(org.immutables.generator.Templates.Invocation __) {
  ___dl();final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
  ___out(".");
  if ($if($(not, a.isOptionalAcceptNullable()))) {
    ___dl();
    if ($if($(a.isFugueOptional(), or, a.isJavaslangOptional()))) {
      ___dl();___out("some");
    } else if ($if($a.isFugueOptional(), or, a.isJavaslangOptional())) {
      ___dl();___out("none");
    } else {
      ___dl();___out("absent");
    }
  }
  ___dl();___out("()");___dl();
};
```java
___.dl();
}$(___. a.getWrappedElementType());

} else {
  ___.dl();$(___. a.getUnwrappedElementType());

} ___.dl();____.dl();
}

org.immutables.generator.Templates.Invokable atCanIgnoreReturnValue() { return atCanIgnoreReturnValue; }
private final org.immutables.generator.Templates.Invokable atCanIgnoreReturnValue = new FragmentDispatch(1, 103);
void _t103__atCanIgnoreReturnValue(org.immutables.generator.Templates.Invokation __) {
  ___.dl();final org.immutables.value.processor.meta.HasStyleInfo s = $cast(___.param(0));
  ____.dl();
  if ($if($(s, allowsClasspathAnnotation, "com.google.errorprone.annotations.CanIgnoreReturnValue"))) {
    ___.dl();____.out("@com.google.errorprone.annotations.CanIgnoreReturnValue ");

  }
  ____.dl();____.dl();
}

org.immutables.generator.Templates.Invokable atNullable() { return atNullable; }
private final org.immutables.generator.Templates.Invokable atNullable = new FragmentDispatch(1, 104);
void _t104__atNullable(org.immutables.generator.Templates.Invokation __) {
  ___.dl();final org.immutables.value.processor.meta.HasStyleInfo s = $cast(___.param(0));
  ____.dl();
  if ($if($(s, allowsClasspathAnnotation, "javax.annotation.Nullable"))) {
    ___.dl();____.out("@javax.annotation.Nullable ");

  }
  ____.dl();____.dl();
}

org.immutables.generator.Templates.Invokable atVar() { return atVar; }
private final org.immutables.generator.Templates.Invokable atVar = new FragmentDispatch(1, 105);
void _t105__atVar(org.immutables.generator.Templates.Invokation __) {
  ___.dl();final org.immutables.value.processor.meta.HasStyleInfo s = $cast(___.param(0));
  ____.dl();
  if ($if($(s, allowsClasspathAnnotation, "com.google.errorprone.annotations.Var"))) {
    ___.dl();____.out("@com.google.errorprone.annotations.Var ");

  }
  ____.dl();____.dl();
}
```
org.immutables.generator.Templates.Invokable disambiguateFieldRep() { return disambiguateFieldRep; }
private final org.immutables.generator.Templates.Invokable disambiguateFieldRep = new FragmentDispatch(3, 106);
void _t106__disambiguateFieldRep(org.immutables.generator.Templates.Invokation __) {
  __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final java.lang.String name = __.param(1).toString();
  final java.lang.String replacer = __.param(2).toString();
  $(__, name);
  {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
   for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getImplementedAttributes())) {
     if ($if($(v.name(), eq, name))) {
       __.dl();$__._it1.index++;
       __.out("$$");
     }
   }
  }
}

org.immutables.generator.Templates.Invokable disambiguateField() { return disambiguateField; }
private final org.immutables.generator.Templates.Invokable disambiguateField = new FragmentDispatch(2, 107);
void _t107__disambiguateField(org.immutables.generator.Templates.Invokation __) {
  __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final java.lang.String name = __.param(1).toString();
  $(__, name);
  {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
   for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getImplementedAttributes())) {
     if ($if($(v.name(), eq, name))) {
       __.dl();$__._it1.index++;
       __.out("$$");
     }
   }
  }
}

org.immutables.generator.Templates.Invokable disambiguateAccessor() { return disambiguateAccessor; }
private final org.immutables.generator.Templates.Invokable disambiguateAccessor = new FragmentDispatch(2, 108);
void _t108__disambiguateAccessor(org.immutables.generator.Templates.Invokation __) {
  __.dl();final org.immutables.value.processor.meta.ValueType type = $cast(__.param(0));
  final java.lang.String name = __.param(1).toString();
  $(__, name);
  {final org.immutables.generator.Templates.Iteration _it1 = new org.immutables.generator.Templates.Iteration();
   for (final org.immutables.value.processor.meta.ValueAttribute v : $in(type.getImplementedAttributes())) {
     if ($if($(v.names.get, eq, name))) {
       __.dl();$__._it1.index++;
       __.out("$$");
     }
   }
  }
}
```java
private final org.immutables.generator.Templates.Invokable deprecation = new FragmentDispatch(1, 109);
void _t109__deprecation(org.immutables.generator.Templates.Invokation __) {
    final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
    if (a.deprecated) {
        out("@Deprecated");
    }
}

private final org.immutables.generator.Templates.Invokable typeDeprecation = new FragmentDispatch(1, 110);
void _t110__typeDeprecation(org.immutables.generator.Templates.Invokation __) {
    final org.immutables.value.processor.meta.ValueType t = $cast(__.param(0));
    if (t.isDeprecated()) {
        out("@Deprecated");
    }
}

private final org.immutables.generator.Templates.Invokable varargsSafety = new FragmentDispatch(1, 111);
void _t111__varargsSafety(org.immutables.generator.Templates.Invokation __) {
    final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
    if (a.isNonRawElementType() || a.hasTypeVariables) {
        out("@SafeVarargs @SuppressWarnings("varargs")");
    }
}

private final org.immutables.generator.Templates.Invokable varargsSafetyAbstract = new FragmentDispatch(1, 112);
void _t112__varargsSafetyAbstract(org.immutables.generator.Templates.Invokation __) {
    final org.immutables.value.processor.meta.ValueAttribute a = $cast(__.param(0));
    if (a.isNonRawElementType() || a.hasTypeVariables) {
        out("@SuppressWarnings("varargs")");
    }
}
```

org.immutables.generator.Templates.Invokable functionClass() { return functionClass; }
private final org.immutables.generator.Templates.Invokable functionClass = new FragmentDispatch(0, 113);
void _t113__functionClass(org.immutables.generator.Templates.Invokation __) {
  __dl();
  if ($if(classpath.isJava8())) {
    __dl();
    __out("java.util.function.Function");
  } else {
    __dl();
    __out("\base\Function");
  }
}

org.immutables.generator.Templates.Invokable overrideJsonDeserialize() { return overrideJsonDeserialize; }
private final org.immutables.generator.Templates.Invokable overrideJsonDeserialize = new FragmentDispatch(1, 114);
void _t114__overrideJsonDeserialize(org.immutables.generator.Templates.Invokation __) {
  __dl();
  final org.immutables.value.processor.meta.ValueType type = $cast(__param(0));
  __dl();
  if ($if(type.isJacksonDeserialized())) {
    __dl();
    __out("@com.fasterxml.jackson.databind.annotation.JsonDeserialize");
  }
}

org.immutables.generator.Templates.Invokable overrideJsonTypeInfo() { return overrideJsonTypeInfo; }
private final org.immutables.generator.Templates.Invokable overrideJsonTypeInfo = new FragmentDispatch(1, 115);
void _t115__overrideJsonTypeInfo(org.immutables.generator.Templates.Invokation __) {
  __dl();
  final org.immutables.value.processor.meta.ValueType type = $cast(__param(0));
  __dl();
  if ($if(type.isJacksonJsonTypeInfo())) {
    __dl();
    __out("@com.fasterxml.jackson.annotation.JsonTypeInfo(use=com.fasterxml.jackson.annotation.JsonTypeInfo.Id.NONE)");
  }
}

org.immutables.generator.Templates.Invokable jsonIgnore() { return jsonIgnore; }
private final org.immutables.generator.Templates.Invokable jsonIgnore = new FragmentDispatch(1, 116);
void _t116__jsonIgnore(org.immutables.generator.Templates.Invokation __) {
    __dl(); final org.immutables.value.processor.meta.ValueType type = __cast(__param(0));
    __dl();
    if ($if(type.isGenerateJacksonIngoreFields())) {
        __dl(); __out("@com.fasterxml.jackson.annotation.JsonIgnore");
    }
    __dl();
}

org.immutables.generator.Templates.Invokable castObject() { return castObject; }
private final org.immutables.generator.Templates.Invokable castObject = new FragmentDispatch(1, 117);
void _t117__castObject(org.immutables.generator.Templates.Invokation __) {
    __dl(); final java.lang.String typename = __param(0).toString();
    __dl();
    if ($if($(typename, ne, "java.lang.Object"))) {
        __dl(); __out("(");
        $(__, typename);
        __out(") ");
    }
    __dl();
}

org.immutables.generator.Templates.Invokable maybeMasked() { return maybeMasked; }
private final org.immutables.generator.Templates.Invokable maybeMasked = new FragmentDispatch(2, 118);
void _t118__maybeMasked(org.immutables.generator.Templates.Invokation __) {
    __dl(); final org.immutables.value.processor.meta.ValueAttribute a = __cast(__param(0));
    final java.lang.String value = __param(1).toString();
    __dl();
    if ($if(a.getRedactedMask())) {
        __dl(); $(__, literal.string, a.getRedactedMask());
    } else {
        __dl(); $(__, value);
    }
    __dl();
}

org.immutables.generator.Templates.Invokable hiddenMutableState() { return hiddenMutableState; }
private final org.immutables.generator.Templates.Invokable hiddenMutableState = new FragmentDispatch(1, 119);
void _t119__hiddenMutableState(org.immutables.generator.Templates.Invokation __) {
    __dl(); final org.immutables.value.processor.meta.ValueType type = __cast(__param(0));
    __dl();
    if ($if($type, allowsClasspathAnnotation, "com.google.errorprone.annotations.Immutable")) {
        __dl(); __out("@SuppressWarnings("Immutable")");
    } else {
    }
    __dl();
}
private class FragmentDispatch extends org.immutables.generator.Templates.Fragment{
    private final int index;
    FragmentDispatch(int arity, int index){
        super(arity);
        this.index = index;
    }
    @Override public void run(org.immutables.generator.Templates.Invokation invocation){
        switch (index){
            case 0: _t0__generate(invocation); break;
            case 1: _t1__annotationsWhenTopLevel(invocation); break;
            case 2: _t2__packageWhenTopLevel(invocation); break;
            case 3: _t3__generateEnclosing(invocation); break;
            case 4: _t4__generateImmutable(invocation); break;
            case 5: _t5__extendsImplements(invocation); break;
            case 6: _t6__generateSerialization(invocation); break;
            case 7: _t7__generateWithInterface(invocation); break;
            case 8: _t8__generateJsonWithUnsupported(invocation); break;
            case 9: _t9__generateInterning(invocation); break;
            case 10: _t10__generateConstruction(invocation); break;
            case 11: _t11__generateSingletonInstance(invocation); break;
            case 12: _t12__generateImmutableCopyOf(invocation); break;
            case 13: _t13__generateLazyValues(invocation); break;
            case 14: _t14__castBuildStagedBuilder(invocation); break;
            case 15: _t15__factoryBuildStageBuilderType(invocation); break;
            case 16: _t16__telescopicBuilderImplementInterfaces(invocation); break;
            case 17: _t17__generateTelescopicBuilderInterfaces(invocation); break;
            case 18: _t18__generateBuilder(invocation); break;
            case 19: _t19__builderReturnValue(invocation); break;
            case 20: _t20__checkRequiredOrThrow(invocation); break;
            case 21: _t21__buildFromAttributeNullableSupertype(invocation); break;
            case 22: _t22__buildFromAttribute(invocation); break;
            case 23: _t23__returnFactoryBuild(invocation); break;
            case 24: _t24__valueFromSuper(invocation); break;
            case 25: _t25__maybeToBuilder(invocation); break;
            case 26: _t26__valueToBuilder(invocation); break;
            case 27: _t27__valueFrom(invocation); break;
            case 28: _t28__valueFromValue(invocation); break;
            case 29: _t29__valueFromValueNoOptional(invocation); break;
            case 30: _t30__deepCopyOf(invocation); break;
            case 31: _t31__valueFromBuilder(invocation); break;
            case 32: _t32__valueFromBuilderAlt(invocation); break;
            case 33: _t33__emptyImmutableInstance(invocation); break;
            case 34: _t34__generateConstructorNoAttributes(invocation); break;
            case 35: _t35__generateConstructorDefaultAttributes(invocation); break;
            case 36: _t36__generateImmutableMembers(invocation); break;
        }
    }
}
case 37: _t37__generateConstructor(invokation); break;
case 38: _t38__buildFromMandatoryAttribute(invokation); break;
case 39: _t39__dynamicFromModifiableCheck(invokation); break;
case 40: _t40__generateSafeDerivedShim(invokation); break;
case 41: _t41__constructorAcceptTypeNoOptional(invokation); break;
case 42: _t42__constructorAcceptType(invokation); break;
case 43: _t43__generateJacksonMapped(invokation); break;
case 44: _t44__generateAccessorMethods(invokation); break;
case 45: _t45__generateObjectUtilityMethods(invokation); break;
case 46: _t46__generateToString(invokation); break;
case 47: _t47__generateDerivedConstruction(invokation); break;
case 48: _t48__generateAfterConstruction(invokation); break;
case 49: _t49__generateReturnCopy(invokation); break;
case 50: _t50__generateReturnCopyRaw(invokation); break;
case 51: _t51__generateReturnCopyContextual(invokation); break;
case 52: _t52__generateReturnBuilderConstructed(invokation); break;
case 53: _t53__generateCopyMethods(invokation); break;
case 54: _t54__defaultAnnotationValues(invokation); break;
case 55: _t55__forwardingEnclosingFactoryMethods(invokation); break;
case 56: _t56__javadocBuilderFactoryExample(invokation); break;
case 57: _t57__immutableImplementationType(invokation); break;
case 58: _t58__immutableCollectionBuild(invokation); break;
case 59: _t59__immutableCollectionCopyOf(invokation); break;
case 60: _t60__immutableCollectionCopyOfSafe(invokation); break;
case 61: _t61__equalsAttribute(invokation); break;
case 62: _t62__arrayAsList(invokation); break;
case 63: _t63__arrayAsListSecondary(invokation); break;
case 64: _t64__primitiveHashCode(invokation); break;
case 65: _t65__objectsEqual(invokation); break;
case 66: _t66__objectsHashCode(invokation); break;
case 67: _t67__requireNonNull(invokation); break;
case 68: _t68__objectsUtility(invokation); break;
case 69: _t69__attributeBuilderTransformUtilities(invokation); break;
case 70: _t70__convertToBuilderType(invokation); break;
case 71: _t71__convertToValueType(invokation); break;
case 72: _t72__copyBuilderListBody(invokation); break;
case 73: _t73__collectionUtility(invokation); break;
case 74: _t74__javadocGenerics(invokation); break;
case 75: _t75__defineOrResetBuildingField(invokation); break;
case 76: _t76__defineOrResetBuildingFieldAlt(invokation); break;
case 77: _t77__createBuilderForCollection(invokation); break;
case 78: _t78__createBuiltCollection(invokation); break;
case 79: _t79__serialVersionUID(invokation); break;
case 80: _t80__suppressCovariantCastForOptional(invokation); break;
case 81: _t81__suppressAnyCovariantCastForOptional(invokation); break;
case 82: _t82__eachLine(invokation); break;
case 83: _t83__atGenerated(invokation); break;
case 84: _t84__atElementNullable(invokation); break;
case 85: _t85__topSimplePrefix(invokation); break;
case 86: _t86__maybeCopyOf(invokation); break;
case 87: _t87__maybeNonNullableValue(invokation); break;
case 88: _t88__builderReturnThis(invokation); break;
case 89: _t89__builderReturnType(invokation); break;
case 90: _t90__attributeBuilderBuilderType(invokation); break;
case 91: _t91__createAttributeBuilder(invokation); break;
case 92: _t92__validated(invokation); break;
case 93: _t93__builderInitAccess(invokation); break;
case 94: _t94__invokeSuper(invokation); break;
case 95: _t95__invokeSuperQualified(invokation); break;
case 96: _t96__sourceDocRef(invokation); break;
case 97: _t97__sourceDocLink(invokation); break;
case 98: _t98__optionalGet(invokation); break;
case 99: _t99__optionalEmpty(invokation); break;
case 100: _t100__optionalOf(invokation); break;
case 101: _t101__optionalPresent(invokation); break;
case 102: _t102__unwrappedOptionalType(invokation); break;
case 103: _t103__atCanIgnoreReturnValue(invokation); break;
case 104: _t104__atNullable(invokation); break;
case 105: _t105__atVar(invokation); break;
case 106: _t106__disambiguateFieldRep(invokation); break;
case 107: _t107__disambiguateField(invokation); break;
case 108: _t108__disambiguateAccessor(invokation); break;
case 109: _t109__deprecation(invokation); break;
case 110: _t110__typeDeprecation(invokation); break;
case 111: _t111__varargsSafety(invokation); break;
case 112: _t112__varargsSafetyAbstract(invokation); break;
case 113: _t113__functionClass(invokation); break;
case 114: _t114__overrideJsonDeserialize(invokation); break;
case 115: _t115__overrideJsonTypeInfo(invokation); break;
case 116: _t116__jsonIgnore(invokation); break;
case 117: _t117__castObject(invokation); break;
case 118: _t118__maybeMasked(invokation); break;
case 119: _t119__hiddenMutableState(invokation); break;
default: break;
}}

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jar/org/immutables/value/internal/$generator$/PostprocessingMachine.java
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jar/org/immutables/value/internal/$processor$/meta/SGsonMirrors.java
* /opt/cola/permits/1145300069_1616148424.84/value-2-8-2-sources-
jar/org/immutables/value/internal/$processor$/meta/SCriteriaMirrors.java
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jar/org/immutables/value/internal/$processor$/meta/SCachingElements.java
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jar/org/immutables/value/internal/$processor$/meta/SSuppressedWarnings.java
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jar/org/immutables/value/internal/$processor$/meta/SOKJsonMirrors.java
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jar/org/immutables/value/internal/$processor$/meta/SMongoMirrors.java
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jar/org/immutables/value/internal/$processor$/meta/SCasesMirrors.java
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jar/org/immutables/value/internal/$processor$/meta/SAttributeTypeKind.java
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jar/org/immutables/value/internal/$processor$/meta/SSwitcherModel.java
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jar/org/immutables/value/internal/$processor$/meta/STypeHierarchyCollector.java
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jar/org/immutables/value/internal/$generator$/TypeHierarchyCollector.java
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jar/org/immutables/value/internal/$processor$/meta/$ValueAttribute.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-
jar/org/immutables/value/internal/$processor$/meta/$ValueAttributeFunctions.java
* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-
jar/org/immutables/value/internal/$processor$/meta/$ValueType.java

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* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/SGsons.java

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* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/org/immutables/value/internal/$processor$/SProcessor.java
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* /opt/cola/permits/1145300069_1616148424.84/0/value-2-8-2-sources-jar/META-INF/maven/org.immutables/value-processor/pom.xml

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1.1240 go-ps v0.0.0-20190716172923-621e5597135b

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1.1241 libmnl 1.0.4-r1

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.1249 x-crypto v0.0.0-20200622213623-75b288015ac9

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```
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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

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1.1269 controller-runtime v0.8.3

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### 1.1271 dosfs-tools 4.1

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*Version 3, 29 June 2007*

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  jar/org/apache/commons/logging/impl/AvalonLogger.java
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  jar/org/apache/commons/logging/impl/package.html
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  jar/org/apache/commons/logging/impl/WeakHashtable.java

1.1277 protobuf v1.4.3

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package cloud
import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)
var sentinels = []string{
    "Copyright",
    "Google",
    `Licensed under the Apache License, Version 2.0 (the "License");`,
}
func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if strings.HasSuffix(path, ".pb.go") {
            // .pb.go files are generated from the proto files.
            // .proto files must have license headers.
            return nil
        }
        if path == "bigtable/cmd/cbt/cbtdoc.go" {
            // Automatically generated.
            return nil
        }
        if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
            // BSD license, which is compatible, is embedded in the file.
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        src = src[:300] // Ensure all of the sentinel values are at the top of the file.

        // Find license
for _, sentinel := range sentinels {
if !bytes.Contains(src, []byte(sentinel)) {
  t.Errorf("%v: license header not present. want %q", path, sentinel)
  return nil
}

return nil
}
if err != nil {
t.Fatal(err)
}

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1.1284 gophercloud v0.16.0

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package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
gophercloud.Result
}
// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
determine if the request succeeded or failed.
type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
    pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"
            Previous string `json:"previous"
        } `json:"links"
    }
    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
}
Contributor Tutorial

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we’re very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project’s service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](/.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/.github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.
We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* https://github.com/gophercloud/gophercloud/pull/584
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed.
Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're testing ([step-04-acceptance-testing.md](step-04-acceptance-testing.md)) with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests
If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:
```
```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child
  Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and
proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional
changes to your code.
While you're working on the finishing touches to your code, it is helpful to add a `[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used.

2. Requests for additional information about the validity of something. This
might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
---------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
---------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

```go
package testing

import (
    "fmt"
    "net/http"
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult = `
{
}
`

// GetResult provides a Get result.
const GetResult = `
{

```
// CreateRequest provides the input to a Create request.
const CreateRequest = `{
}
`

// UpdateRequest provides the input to for Update request.
const UpdateRequest = `{
}
`

// UpdateResult provides an update result.
const UpdateResult = `{
}
`

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{
}

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{
}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{
}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)

        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.WriteHeader(http.StatusNoContent)
    })
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "PATCH")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, UpdateRequest)

        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, UpdateResult)
    })
}
package testing

import (
    "testing"
    
    "github.com/gophercloud/gophercloud/openstack/service/v1/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++

        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)

        return true, nil
    })

    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)
func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }

    actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

package RESOURCE

import {
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
}
// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {
}

// ToResourceListQuery formats a ListOpts into a query string.
func (opts ListOpts) ToResourceListQuery() (string, error) {
    q, err := gophercloud.BuildQueryString(opts)
    return q.String(), err
}

// List retrieves a list of RESOURCES.
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
    url := listURL(client)
    if opts != nil {
        query, err := opts.ToResourceListQuery()
        if err != nil {
            return pagination.Pager{Err: err}
        }
        url += query
    }
        return ResourcePage{pagination.LinkedPageBase{PageResult: r}}
    })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    resp, err := client.Get(getURL(client, id), &r.Body, nil)
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}
// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    resp, err := client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestMethod{
        OkCodes: []int{201},
    })
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    resp, err := client.Delete(deleteURL(client, id), nil)
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
        OkCodes: []int{200, 201},
    })
    _, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
    return
}
resp, err := client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
    OkCodes: jint{200},
})
_, r.Header, r.Err = gophercloud.ParseResponse(resp, err)
return
}

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package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

Step 7: Congratulations!

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 4: Acceptance Testing

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.
Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

*/

Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/

package RESOURCE

Step 2: Create an Issue

=================================

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

-----------

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

Feature Request
---------------

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field
is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.

Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.
An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

Step 3: Code Hunting

====================

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package.

Meaning, we want to change:

```go
type Network struct {
    ID           string `json:"id"`
    Name         string `json:"name"`
    AdminStateUp bool `json:"admin_state_up"`
    Status       string `json:"status"`
    Subnets      []string `json:"subnets"`
    TenantID     string `json:"tenant_id"`
    Shared       bool `json:"shared"`
}
```

...go

```go
type Network struct {
    ID                    string `json:"id"`
    Name                  string `json:"name"`
    AdminStateUp          bool `json:"admin_state_up"`
    Status                string `json:"status"`
    Subnets               []string `json:"subnets"`
    TenantID              string `json:"tenant_id"`
    Shared                bool `json:"shared"`
    AvailabilityZoneHints []string `json:"availability_zone_hints"`
```
We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[string]` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[string]`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605
Code Hunting Tips
-------------

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides
-------------

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

1.1285 go-git-fixtures v3.5.0

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1.1288 x-sync v0.0.0-20210220032951-
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1.1289 go-openapi-jsonpointer v0.19.5

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1.1307 x-net v0.0.0-20200707034311-ab3426394381

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1.1308 netty-resolver 4.1.63.Final

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* /opt/cola/permits/1150446056_1617434856.38/0/netty-resolver-4-1-63-final-sources-jar/io/netty/resolver/RoundRobinInetAddressResolver.java

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  jar/io/netty/resolver/CompositeNameResolver.java
* /opt/cola/permits/1150446056_1617434856.38/0/netty-resolver-4-1-63-final-sources-
  jar/io/netty/resolver/HostsFileParser.java
* /opt/cola/permits/1150446056_1617434856.38/0/netty-resolver-4-1-63-final-sources-
  jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
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  jar/io/netty/resolver/DefaultAddressResolverGroup.java
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  jar/io/netty/resolver/InetSocketAddressResolver.java
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  jar/io/netty/resolver/AddressResolver.java
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  jar/io/netty/resolver/AbstractAddressResolver.java

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jar/io/netty/resolver/SimpleNameResolver.java
* /opt/cola/permits/1150446056_1617434856.38/0/netty-resolver-4-1-63-final-sources-
jar/io/netty/resolver/NoopAddressResolver.java
* /opt/cola/permits/1150446056_1617434856.38/0/netty-resolver-4-1-63-final-sources-
jar/io/netty/resolver/AddressResolverGroup.java
* /opt/cola/permits/1150446056_1617434856.38/0/netty-resolver-4-1-63-final-sources-
jar/io/netty/resolver/NameResolver.java
* /opt/cola/permits/1150446056_1617434856.38/0/netty-resolver-4-1-63-final-sources-jar/io/netty/resolver/package-info.java
* /opt/cola/permits/1150446056_1617434856.38/0/netty-resolver-4-1-63-final-sources-
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* /opt/cola/permits/1150446056_1617434856.38/0/netty-resolver-4-1-63-final-sources-jar/io/netty/resolver/HostsFileEntries.java

1.1309 gotool v1.0.0

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1.1310 k8s.io-client-go v0.18.6

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1.1311 k8s.io-api v0.18.8

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- RSA is no longer included, found in the OpenSSL library
- IDEA is no longer included, its use is deprecated

```bash
* /opt/cola/permits/1146907087_1616837576.62/0/github-com-azure-go-autorest-autorest-date-1-zip/timerfc1123.go  
* /opt/cola/permits/1146907087_1616837576.62/0/github-com-azure-go-autorest-autorest-date-1-zip/timerfc1123_test.go  
* /opt/cola/permits/1146907087_1616837576.62/0/github-com-azure-go-autorest-autorest-date-1-zip/unixtime.go  
* /opt/cola/permits/1146907087_1616837576.62/0/github-com-azure-go-autorest-autorest-date-1-zip/time_test.go  
* /opt/cola/permits/1146907087_1616837576.62/0/github-com-azure-go-autorest-autorest-date-1-zip/unixtime_test.go  
* /opt/cola/permits/1146907087_1616837576.62/0/github-com-azure-go-autorest-autorest-date-1-zip/date_test.go  
* /opt/cola/permits/1146907087_1616837576.62/0/github-com-azure-go-autorest-autorest-date-1-zip/time.go  
* /opt/cola/permits/1146907087_1616837576.62/0/github-com-azure-go-autorest-autorest-date-1-zip/utility.go  
```
- DES is now external, in the OpenSSL library
- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL
- Blowfish is now external, in the OpenSSL library

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* @version 3.0 (December 2000)
 *
* Optimised ANSI C code for the Rijndael cipher (now AES)
 *
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/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.5. April 19th, 2010

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The data format used by the zlib library is described by RFCs (Request for
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* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources.jar/io/netty/handler/ssl/oscp/package-info.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources.jar/io/netty/handler/ssl/AbstractSniHandler.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources.jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources.jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources.jar/io/netty/handler/ssl/Conscrypt.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources.jar/io/netty/handler/ssl/SniCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources.jar/io/netty/handler/ssl/OptionalSslHandler.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources.jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources.jar/io/netty/handler/ssl/JdkAlpnSslEngine.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources.jar/io/netty/handler/ssl/SslClientHelloHandler.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources.jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java

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1.1348 jackson 2.9.8

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1.1350 client-model v0.2.0

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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
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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* /opt/cola/permits/1104445043_1604978442.53/0/netty-tcnative-boringssl-static-2-0-31-final-sources-
  jar/io/netty/internal/tcnative/SSLPrivateKeyMethodTask.java
* /opt/cola/permits/1104445043_1604978442.53/0/netty-tcnative-boringssl-static-2-0-31-final-sources-
  jar/io/netty/internal/tcnative/SSLTask.java
* /opt/cola/permits/1104445043_1604978442.53/0/netty-tcnative-boringssl-static-2-0-31-final-sources-
  jar/io/netty/internal/tcnative/CertificateVerifierTask.java
* /opt/cola/permits/1104445043_1604978442.53/0/netty-tcnative-boringssl-static-2-0-31-final-sources-
  jar/io/netty/internal/tcnative/CertificateCallbackTask.java
* /opt/cola/permits/1104445043_1604978442.53/0/netty-tcnative-boringssl-static-2-0-31-final-sources-
  jar/io/netty/internal/tcnative/SSLPrivateKeyMethodDecryptTask.java
* /opt/cola/permits/1104445043_1604978442.53/0/netty-tcnative-boringssl-static-2-0-31-final-sources-
  jar/io/netty/internal/tcnative/SSLPrivateKeyMethodSignTask.java

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* /opt/cola/permits/1104445043_1604978442.53/0/netty-tcnative-boringssl-static-2-0-31-final-sources-jar/io/netty/internal/tcnative/Buffer.java
* /opt/cola/permits/1104445043_1604978442.53/0/netty-tcnative-boringssl-static-2-0-31-final-sources-jar/io/netty/internal/tcnative/SSL.java
* /opt/cola/permits/1104445043_1604978442.53/0/netty-tcnative-boringssl-static-2-0-31-final-sources-jar/io/netty/internal/tcnative/Library.java

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jar/io/netty/internal/tnative/CertificateVerifier.java
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jar/io/netty/internal/tnative/SSLSessionCache.java
* /opt/cola/permits/1104445043_1604978442.53/0/netty-tnative-boringssl-static-2-0-31-final-sources-
jar/io/netty/internal/tnative/SSLSession.java
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Manifest-Version: 1.0
BoringSSL-Revision: 243b5cc9e33979ae2afa79eaa4e4c8d59db161d4
Bundle-Description: A Mavenized fork of Tomcat Native which incorporates various patches. This artifact is statically linked to BoringSSL and Apache APR.
Apr-Version: 1.6.5
Automatic-Module-Name: io.netty.tcnative.boringssl
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.tcnative-boringssl-static
Archiver-Version: Plexus Archiver
Built-By: norman
Bnd-LastModified: 1591785325580
Bundle-ManifestVersion: 2
Bundle-DocURL: http://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional
Found in path(s):
* /opt/cola/permits/1104445043_1604978442.53/0/netty-tnative-boringssl-static-2-0-31-final-sources-jar/META-INF/MANIFEST.MF
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 */

package org.apache.xalan;

/ *
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information. This class will replace the older
 * org.apache.xalan.processor.Version class.</P>
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties for
 * information about the version of the XSLT spec we support.</P>
 * @xsl.usage general
 */

public class Version
/**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * Futurework: have this read version info from jar manifest.
 * 
 * @return String denoting our current version
 */

public static String getVersion()
{
    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";
}
* 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.

```java
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}
```

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg, implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
```java
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}
```

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance drop applied to a specific release and contains fixes for defects reported. It maintains compatibility with the release and contains no API changes.
 * When missing, it designates the final and complete development drop for a release.
 */
```java
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.
*/

```java
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

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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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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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* 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.
/**
* 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.<i>r</i>[.<i>dd</i>] <B>D</B>nn</CODE>.
* Futurework: have this read version info from jar manifest.
* @return String denoting our current version
*/
public static String getVersion()
{
}

/**
* Print the processor version to the command line.
* @param argv command line arguments, unused.
*/
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
* Name of product: Serializer.
*/
public static String getProduct()
/**
 * 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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*/
/**
 * 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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 */
Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToHTMLStream.java
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*/
// Proprietary
/** The 'document-location()' id (Proprietary). */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/FunctionTable.java
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Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Encodings.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/XMLEntities.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_text.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTInfo.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTInfo.properties

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*/

/*  
* $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $  
*/

/*  
* @author Jacek Ambroziak  
* @author Santiago Pericas-Geertsen  
* @author Morten Jorgensen  
* @author G. Todd Miller  
*/

package org.apache.xalan.xslt.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;

import org.apache.xml.dtm.DTM;
import org.apache.xalan.xslt.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.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) {
    _xsltc.setMultiDocument(flag);
}

public void setCallsNodeset(boolean flag) {
    _xsltc.setCallsNodeset(flag);
}

public void setHasIdCall(boolean flag) {
    _xsltc.setHasIdCall(flag);
}

/**
 * This method is similar to findNodeType(int, Object) except that it
 * creates a StepPattern instead of just returning a node type. It also
 * differs in the way it handles "*[uri]:*" and "*[uri]:@*". The last two
 * patterns are expanded as "*[namespace-uri()='uri']" and
 * "*[namespace-uri()='uri']", respectively. This expansion considerably
 * simplifies the grouping of patterns in the Mode class. For this
 * expansion to be correct, the priority of the pattern/template must be
 * set to -0.25 (when no other predicates are present).
 */

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;
    } else if (test instanceof Integer) {
        nodeType = ((Integer) test).intValue();
    } else {
        QName name = (QName)test;
        boolean setPriority = false;
        if (axis == Axis.NAMESPACE) {
            // Handle "*[uri]:*" and "*[uri]:@*
            nodeType =...
        }
    }
    return new StepPattern(axis, nodeType, predicates);
}

if (test == null) {  // "*"
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
    (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;

    return new StepPattern(axis, nodeType, predicates);
} else if (test instanceof Integer) {
    nodeType = ((Integer) test).intValue();

    return new StepPattern(axis, nodeType, predicates);
} else {
    QName name = (QName)test;
    boolean setPriority = false;

    if (axis == Axis.NAMESPACE) {
nodeType = (name.toString().equals("*")) ? -1
: _xsltc.registerNamespacePrefix(name);
else {
final String uri = name.getNamespace();
final String local = name.getLocalPart();
final QName namespace_uri =
_parser.getQNameIgnoreDefaultNs("namespace-uri");

// Expand {uri}:* to *[namespace-uri() = 'uri'] - same for @*
if (uri != null && (local.equals("*") || local.equals("@*"))) {
  if (predicates == null) {
    predicates = new Vector(2);
  }

  // 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
            : _xsltc.registerNamespacePrefix(name);
    }

    if (name.getNamespace() == null) {
        final String local = name.getLocalPart();

        if (local.equals("*")) {
            return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
                : NodeTest.ELEMENT;
        }
        else if (local.equals("@*")) {
            return NodeTest.ATTRIBUTE;
        }
    }

    return (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
        : _xsltc.registerElement(name);
    }

    /**
     * Parse the expression passed to the current scanner. If this
     * expression contains references to local variables and it will be
     * compiled in an external module (not in the main class) request
     * the current template to create a new variable stack frame.
     * *
     * @param lineNumber Line where the current expression is defined.
     * @param external  Set to <tt>true</tt> if this expression is
    * compiled in a separate module.
    * *
    * /
    public Symbol parse(String expression, int lineNumber) throws Exception {
        try {

_expression = expression;
[lineNumber = lineNumber;
return super.parse();
}
catch (IllegalCharException e) {
    ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
    lineNumber, e.getMessage());
    _parser.reportError(Constants.FATAL, err);
}
return null;
}
/**
 * Lookup a variable or parameter in the symbol table given its name.
 *
 * @param name Name of the symbol being looked up.
 */
final SyntaxTreeNode lookupName(QName name) {
    // Is it a local var or param ?
    final SyntaxTreeNode result = _parser.lookupVariable(name);
    if (result != null)
        return(result);
    else
        return(_symbolTable.lookupName(name));
}
public final void addError(ErrorMsg error) {
    _parser.reportError(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;
on terminal Expression Predicate, FilterExpr, Step;
on terminal Expression OrExpr, AndExpr, EqualityExpr;
on terminal Expression RelationalExpr, AdditiveExpr;
on terminal Expression MultiplicativeExpr, UnaryExpr;
on terminal Expression VariableReference, FunctionCall;
on terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
on terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
on 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 DCOLOM;

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::= 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)); :}
<table>
<thead>
<tr>
<th>ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt</th>
</tr>
</thead>
<tbody>
<tr>
<td>:: RESULT = parser.createStepPattern(axis.intValue(), nt, null);</td>
</tr>
<tr>
<td>::</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ChildOrAttributeAxisSpecifier:axis</th>
</tr>
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<tr>
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</tr>
<tr>
<td>:: RESULT = parser.createStepPattern(axis.intValue(), nt, pp);</td>
</tr>
<tr>
<td>::</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip</th>
</tr>
</thead>
<tbody>
<tr>
<td>::</td>
</tr>
<tr>
<td>:: RESULT = pip; // TODO: report error if axis is attribute</td>
</tr>
<tr>
<td>::</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip</th>
</tr>
</thead>
<tbody>
<tr>
<td>Predicates:pp</td>
</tr>
<tr>
<td>::</td>
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<tr>
<td>:: // TODO: report error if axis is attribute</td>
</tr>
<tr>
<td>::</td>
</tr>
<tr>
<td>RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);</td>
</tr>
<tr>
<td>::</td>
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</tbody>
</table>

NodeTestPattern ::= NameTestPattern:nt |
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>:: RESULT = nt; ::</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>:: RESULT = new Integer(NodeTest.ANODE); ::</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TEXT</th>
</tr>
</thead>
<tbody>
<tr>
<td>:: RESULT = new Integer(NodeTest.TEXT); ::</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>COMMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>:: RESULT = new Integer(NodeTest.COMMENT); ::</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PI</th>
</tr>
</thead>
<tbody>
<tr>
<td>:: RESULT = new Integer(NodeTest.PI); ::</td>
</tr>
</tbody>
</table>

NameTestPattern ::= STAR |
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>:: RESULT = null; ::</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>QName:qn</th>
</tr>
</thead>
<tbody>
<tr>
<td>:: RESULT = qn; ::</td>
</tr>
</tbody>
</table>

ChildOrAttributeAxisSpecifier ::= ATSIGN |
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>:: RESULT = new Integer(Axis.ATTRIBUTE); ::</td>
</tr>
</tbody>
</table>
| 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
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
\[
\begin{align*}
: \text{RESULT} &= \text{lp}; \\
| \text{FilterExpr}: \text{xexp} \\
: \text{RESULT} &= \text{xexp}; \\
| \text{FilterExpr}: \text{xexp} \text{SLASH} \text{RelativeLocationPath}: \text{rlp} \\
: \text{RESULT} &= \text{new FilterParentPath(\text{xexp}, \text{rlp})}; \\
| \text{FilterExpr}: \text{xexp} \text{DSLASH} \text{RelativeLocationPath}: \text{rlp} \\
:
//
// Expand '///' into '/descendant-or-self::node()/' or
// into /descendant-or-self::*/
//
int \text{nodeType} = \text{DOM.NO_TYPE};
\text{if (rlp instanceof Step &&}
  \text{parser.isElementAxis(((Step) rlp).getAxis()))}
{\text{nodeType = DTM.ELEMENT_NODE;}}

\text{final Step step = new Step(Axis.DESCENDANTORSELF, \text{nodeType}, null);} 
\text{FilterParentPath fpp = new FilterParentPath(\text{xexp}, \text{step});}
\text{fpp = new FilterParentPath(fpp, \text{rlp});}
\text{if (\text{xexp instanceof KeyCall} == false) }
{\text{fpp.setDescendantAxis();}}

\text{RESULT = fpp;}
\text{);};
\text{LocationPath ::= RelativeLocationPath:rlp}
{\text{RESULT} = \text{rlp};}
| \text{AbsoluteLocationPath}: \text{alp}
{\text{RESULT} = \text{alp};}
\text{RelativeLocationPath ::= Step:step}
{\text{RESULT} = \text{step};}
| \text{RelativeLocationPath:rlp SLASH Step:step}
{:}
\text{if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) }
{\text{RESULT = step; } // Remove './' from the middle}
\text{else if (((Step) step).isAbbreviatedDot()) }
{\text{RESULT = rlp; } // Remove '/.' from the end}
\text{else }
{\text{RESULT =}}
\end{align*}
\]
new ParentLocationPath((RelativeLocationPath) rlp, step);
}
):

| AbbreviatedRelativeLocationPath:arlp
{| RESULT = arlp; :);

AbsoluteLocationPath ::= SLASH
{| RESULT = new AbsoluteLocationPath(); :}

| SLASH RelativeLocationPath:rlp
{| RESULT = new AbsoluteLocationPath(rlp); :}

| AbbreviatedAbsoluteLocationPath:aalp
{| RESULT = aalp; :);

AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
{| final Step right = (Step)step;
 final int axis = right.getAxis();
 final int type = right.getNodeType();
 final Vector predicates = right.getPredicates();

if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) { // Compress './/child:E' into 'descendant::E' - if possible
 if (predicates == null) {
 right.setAxis(Axis.DESCENDANT);
 if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
 RESULT = right;
 }
 else {
 // Expand 'rlp//child::E' into 'rlp/descendant::E'
 RelativeLocationPath left = (RelativeLocationPath)rlp;
 RESULT = new ParentLocationPath(left, right);
 }
 }
 else { // Expand 'step' -> 'descendant-or-self::*/step'
 if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
 Step left = new Step(Axis.DESCENDANTORSELF,
 DTM.ELEMENT_NODE, null);
 RESULT = new ParentLocationPath(left, right);
 }
 else { // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
 RelativeLocationPath left = (RelativeLocationPath)rlp;
 Step mid = new Step(Axis.DESCENDANTORSELF,
 DTM.ELEMENT_NODE, null);
ParentLocationPath ppl = new ParentLocationPath(mid, right);
RESULT = new ParentLocationPath(left, ppl);
}
}
}
else if ((axis == 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);
}
};

AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
{

// Expand '//' into '/descendant-or-self::node()/' or
// into /descendant-or-self::*/

int nodeType = DOM.NO_TYPE;
if (rlp instanceof Step &&
   parser.isElementAxis(((Step) rlp).getAxis()))
{
   nodeType = DTM.ELEMENT_NODE;
}
final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
RESULT = new AbsoluteLocationPath(parser.insertStep(step,
(RelativeLocationPath) rlp));
};

Step ::= NodeTest:ntest
{
if (ntest instanceof Step) {
   RESULT = (Step)ntest;
}
else {
   RESULT = new Step(Axis.CHILD,
parser.findNodeType(Axis.CHILD, ntest),
null);

<table>
<thead>
<tr>
<th>NodeTest:ntest Predicates:pp</th>
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</thead>
<tbody>
<tr>
<td>: RESULT = (Step)ntest;</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>}</td>
</tr>
<tr>
<td>: RESULT = new Step(Axis.CHILD,</td>
</tr>
<tr>
<td>parser.findNodeType(Axis.CHILD, ntest), pp);</td>
</tr>
<tr>
<td>: RESULT = new Step(axis.intValue(),</td>
</tr>
<tr>
<td>parser.findNodeType(axis.intValue(), ntest), pp);</td>
</tr>
<tr>
<td>: RESULT = new Step(axis.intValue(),</td>
</tr>
<tr>
<td>parser.findNodeType(axis.intValue(), ntest), null);</td>
</tr>
<tr>
<td>AbbreviatedStep:abbrev</td>
</tr>
<tr>
<td>: RESULT = abbrev; :;</td>
</tr>
</tbody>
</table>

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; : |
/*
 * 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(Casts.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"); : }

| 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.getNameIgnoreDefaultNs("following-sibling"); :}

| NAMESPACE |
{: RESULT = parser.getNameIgnoreDefaultNs("namespace"); :}

| PARENT |
{: RESULT = parser.getNameIgnoreDefaultNs("parent"); :}

| PRECEDING |
{: RESULT = parser.getNameIgnoreDefaultNs("preceding"); :}

| PRECEDINGSIBLING |
{: RESULT = parser.getNameIgnoreDefaultNs("preceding-sibling"); :}

| SELF |
{: RESULT = parser.getNameIgnoreDefaultNs("self"); :}

| ID |
{: RESULT = parser.getNameIgnoreDefaultNs("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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* 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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 */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java
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 */
/**

 * Execute the proprietary document-location() function, which returns
 * a node set of documents.
 * @xsl.usage advanced
 */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-
  jar/org/apache/xpath/functions/FuncDoclocation.java
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*/
*/
*/ $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $ */

/*
 * @author Jacek Ambroziak
 * @author Santiago Pericas-Geertsen
 * @author Morten Jorgensen
 */

package org.apache.xalan.xslt.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 == '	' || c == '' || c == '
'  || c == '');
}

/**
 * If symbol is not followed by `::` or `(`, then treat it as a
* name instead of an axis or function (Jira-1912).
*/

Symbol disambiguateAxisOrFunction(int ss) throws Exception {
    // Peek in the input buffer without changing the internal state
    int index = yy_buffer_index;

    // Skip whitespace
    while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
        index++;
    }

    // If end of buffer, can't disambiguate :
    if (index >= yy_buffer_read) {
        // Can't disambiguate, so return as symbol
        return new Symbol(ss);
    }

    // Return symbol if next token is '::' or '('
    return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':') ||
           (yy_buffer[index] == '(') ?
           newSymbol(ss) : newSymbol(sym.QNAME, yytext());
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * name instead of a keyword (Jira-1912).
 */

Symbol disambiguateOperator(int ss) throws Exception {
    switch (last) {
    case -1:    // first token
        case sym.ATSIGN:
        case sym.DCOLON:
        case sym.LPAREN:
        case sym.LBRACK:
        case sym.COMMA:
        case sym.AND:
        case sym.OR:
        case sym.MOD:
        case sym.DIV:
        case sym.MULT:
        case sym.SLASH:
        case sym.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.DSLSASH:
        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-u01FF|u01F0-u01F4-u01F5|u01FA-u0217|u0250-
|u02A8-u02BB|u02C1-u0386|u0388-u038A|u038Cu038E|u03A1-u03A3|u03CE|u03D0-
|u03D6|u03DA|u03DC|u03E0|u03E2|u03F3|u0401-u040C|u040E-u044F|u0451-u045C|u045E-
|u0481|u0490|u04C4|u04C7|u04C8|u04CB|u04CC|u04D0|u04EB|u04EE|u04F5|u04F9|u0531-
|u0556|u0559|u0561-u0586|u05D0|u05EA|u05F0-u05F2|u05F7|u063A|u0641-u0664|u0671-u06B6|u06BA-
|u06BE|u06E0|u06E6|u06D3|u06D5|u06E5|u06E6|u0905-u0939|u093D|u0958-u0961|u098C-
|u098F|u0990-u0993|u09A8-u09AA|u09B0-u09B6|u09B9|u09DC|u09DF-
|u09E1|u09F0-u09F1|u0A0A|u0A0F|u0A0|u0A1-u0A3|u0A32-u0A33|u0A35-
|u0A36|u0A38|u0A39|u0A5|u0A5C|u0A72|u0A74|u0A85|u0A8B|u0A8D|u0A8F|u0A91|u0A93-
|u0A98|u0AA|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|u0B8B|u0B90|u0B92|u0B95|u0B99|u0B9A|u0B9Cu0B9E|u0B9Fu0BA3|u0BA4|u0BA8-
|u0BAA|u0BAE|u0BB5|u0BB7|u0BB9|u0C05|u0C0Cu0C0E|u0C10|u0C12|u0C28|u0C2A|u0C33|u0C35-
|u0C39|u0C60|u0C61|u0C85|u0C8Cu0C8E|u0C90|u0C92|u0CA8|u0CAE|u0CB3|u0CB5-
|u0CB9|u0CDE|u0CE|u0CE1|u0DD5|u0DD6|u0DD8|u0DDA|u0DD9|u0D6-
|u0D61|u0E01|u0E22|u0E30|u0E32|u0E33|u0E40|u0E45|u0E81|u0E82|u0E84|u0E87-
|u0E88|u0E8A|u0E8D|u0E94|u0E97|u0E99|u0E9F|u0EA1|u0EA3|u0EA5|u0EA7|u0EAA|u0EAD-
|u0EAE|u0EB0|u0EB2|u0EB3|u0EBD|u0EC0|u0EC4|u0F40|u0F47|u0F49|u0F69|u0A0|u0A5C|u0D0-
|u0F6u1000|u1102|u1133|u113C|u113E|u1140|u114C|u114E|u1150|u1154|u1155u1159|u115F-
|u1161|u1163|u1165|u1167|u1169|u116D|u116E|u1172|u1173|u1175|u119E|u11A8|u11AB|u11AE-
"::" { 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.DSLSlash); }
"=" { return newSymbol(sym.EQ); }
"!=" { return newSymbol(sym.NE); }
"<" { return newSymbol(sym.LT); }
">" { return newSymbol(sym.GT); }
"<=" { return newSymbol(sym.LE); }
">=" { return newSymbol(sym.GE); }
"id" { return disambiguateAxisOrFunction(sym.ID); }
"key" { return disambiguateAxisOrFunction(sym.KEY); }
"text()" { return newSymbol(sym.TEXT); }
"text"+[ 	\n\r\f]+"()" { return newSymbol(sym.TEXT); }
"node()" { return newSymbol(sym.NODE); }
"node"+[ 	\n\r\f]+"()" { return newSymbol(sym.NODE); }
"comment()" { return newSymbol(sym.COMMENT); }
"comment"+[ 	\n\r\f]+"()" { return newSymbol(sym.COMMENT); }
"processing-instruction" { return disambiguateAxisOrFunction(sym.PIPE); }
"processing-instruction()" { return newSymbol(sym.PI); }
"processing-instruction"+[ 	\n\r\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); }
"[\"A\"]\"{ return newSymbol(sym.Literal, yytext().substring(1, yytext().length() - 1)); }
\"[A]\"{ 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/xslt/compiler/xpath.lex

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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
*
compeleted, 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):
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* /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
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/package.html
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* /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/xalan/objects/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/axes/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/package.html

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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
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* /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/xslt/compiler/util/NodeSetType.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/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/xalan/xsltc/trax/WalkingIteratorSorted.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemWhen.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StylesheetPIHandler.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ErrorMessages_sl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/SecuritySupport.java
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* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/util/PrecedingAxisIterator.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/util/DescendantOrSelfAxisIterator.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/util/AncestorOrSelfAxisIterator.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/Navigator.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/util/FollowingAxisIterator.java

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* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
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* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
  jar/org/jaxen/expr/PredicateSet.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
  jar/org/jaxen/expr/DefaultAdditiveExpr.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
  jar/org/jaxen/expr/NumberExpr.java
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  jar/org/jaxen/expr/VariableReferenceExpr.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/expr/Predicate.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/pattern/NameTest.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/NamespaceContext.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/function/ext/EndsWithFunction.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/expr/DefaultXPathExpr.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/pattern/NodeTest.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/expr/StartsWithFunction.java
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* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/expr/LocationPath.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/expr/ConcatFunction.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/dom/DOMXPath.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/expr/DefaultGreaterThanExpr.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/function/StartsWithFunction.java
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* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/function/ConcatFunction.java
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* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/NamedAccessNavigator.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/expr/iter/IterableAxis.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/expr/DefaultNameStep.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/ContextSupport.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/Context.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/expr/iter/IterableAttributeAxis.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/expr/DefaultNameStep.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/ContextSupport.java
* /opt/ws_local/PERMITS_SQL/1093498622_1600942376.18/0/jaxen-62-sources-jar/org/jaxen/ContextSupport.java
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1.1409 google-golang-org-genproto v0.0.0-20191108220845-16a3f7862a1a

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jar/io/netty/handler/codec/http/package-info.java
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1.1416 netty-transport 4.1.61.Final

1.1416.1 Available under license:

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Manifest-Version: 1.0
Implementation-Title: Netty/Transport
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.transport
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.transport
Implementation-Version: 4.1.61.Final
Built-By: norman
Bnd-LastModified: 1617096666373
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Open Source Used In kASA v1 9228

Import-Package: io.netty.buffer;version="[4.1,5)" , io.netty.resolver;version="[4.1,5)" , io.netty.util;version="[4.1,5)" , io.netty.util.concurrent;version="[4.1,5)" , io.netty.util.internal;version="[4.1,5)" , io.netty.util.internal.logging;version="[4.1,5)" , sun.nio.ch;resolution=optional, org.eclipse.jetty.npn;version="[1,2)" , resolution=optional, org.eclipse.jetty.alpn;version="[1,2)" , resolution=optional

Require-Capability: osgi.ee;filter:="(&amp; osgi.ee=JavaSE)(version=1.6)"

Tool: Bnd-2.4.1.201501161923

Implementation-Vendor: The Netty Project


Bundle-Name: Netty/Transport

Bundle-Version: 4.1.61.Final

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0_252

Implementation-URL: https://netty.io/netty-transport/

Found in path(s):

* /opt/cola/permits/1153055898_1618392532.14/0/netty-transport-4-1-61-final-jar/META-INF/MANIFEST.MF

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