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*/

package org.apache.commons.codec;

/**

* Defines common decoding methods for byte array decoders.

*

- * @author Apache Software Foundation
- \ast @version \$Id: Binary Decoder.java,
v1.102004/06/1518:14:15ggregory Exp
 \$

*/

public interface BinaryDecoder extends Decoder {

/**

* Decodes a byte array and returns the results as a byte array.

*

- * @param pArray A byte array which has been encoded with the
- * appropriate encoder

*

* @return a byte array that contains decoded content

*

- * @throws DecoderException A decoder exception is thrown
- * if a Decoder encounters a failure condition during
- * the decode process.

*/

byte[] decode(byte[] pArray) throws DecoderException;

}

The commons-codec team is pleased to announce the Codec 1.3 release!

http://jakarta.apache.org/commons/codec/

The codec package contains simple encoder and decoders for various formats such as Base64 and Hexadecimal. In addition to these widely used encoders and decoders, the codec package also maintains a collection of phonetic encoding utilities.

Changes in this version include:

New Features:

o BinaryCodec: Encodes and decodes binary to and from Strings of 0s and 1s.

Issue: 27813. Thanks to Alex Karasulu.

o QuotedPrintableCodec: Codec for RFC 1521 MIME (Multipurpose Internet Mail Extensions) Part One. Rules #3, #4, and #5 of the quoted-printable spec are

not implemented yet. See also issue 27789. Issue: 26617. Thanks to Oleg Kalnichevski.

- o BCodec: Identical to the Base64 encoding defined by RFC 1521 and allows a character set to be specified. Issue: 26617. Thanks to Oleg Kalnichevski.
- o QCodec: Similar to the Quoted-Printable content-transfer-encoding defined in RFC 1521 and designed to allow text containing mostly ASCII characters to be decipherable on an ASCII terminal without decoding. Issue: 26617. Thanks to Oleg Kalnichevski.
- o Soundex: Implemented the DIFFERENCE algorithm. Issue: 25243. Thanks to Matthew Inger.
- o RefinedSoundex: Implemented the DIFFERENCE algorithm. Issue: 25243. Thanks to Matthew Inger.

Fixed bugs:

- o The default URL encoding logic was broken. Issue: 25995. Thanks to Oleg Kalnichevski.
- o Base64 chunked encoding not compliant with RFC 2045 section 2.1 CRLF. Issue: 27781. Thanks to Gary D. Gregory.
- o Hex converts illegal characters to 255. Issue: 28455.
- o Metaphone now correctly handles a silent B in a word that ends in MB.
- "COMB" is encoded as "KM", before this fix "COMB" was encoded as "KMB". Issue: 28457.
- o Added missing tags in Javadoc comments.
- o General Javadoc improvements.

Changes:

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Have fun!

-The commons-codec team

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*/

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/**

* A visitor to visit a Java annotation. The methods of this interface must be

```
* called in the following order: (<tt>visit<tt> | <tt>visitEnum<tt> |
* <tt>visitAnnotation<tt> | <tt>visitArray<tt>)* <tt>visitEnd<tt>.
* @author Eric Bruneton
* @author Eugene Kuleshov
public interface AnnotationVisitor {
 /**
  * Visits a primitive value of the annotation.
  * @param name the value name.
  * @param value the actual value, whose type must be {@link Byte},
         {@link Boolean}, {@link Character}, {@link Short},
         {@link Integer}, {@link Long}, {@link Float}, {@link Double},
         {@link String} or {@link Type}. This value can also be an array
        of byte, boolean, short, char, int, long, float or double values
        (this is equivalent to using {@link #visitArray visitArray} and
        visiting each array element in turn, but is more convenient).
  void visit(String name, Object value);
  * Visits an enumeration value of the annotation.
  * @param name the value name.
  * @param desc the class descriptor of the enumeration class.
  * @param value the actual enumeration value.
  void visitEnum(String name, String desc, String value);
  * Visits a nested annotation value of the annotation.
  * @param name the value name.
  * @param desc the class descriptor of the nested annotation class.
  * @return a visitor to visit the actual nested annotation value, or
         <tt>null</tt> if this visitor is not interested in visiting
         this nested annotation. <i>The nested annotation value must be
         fully visited before calling other methods on this annotation
         visitor</i>.
  */
  AnnotationVisitor visitAnnotation(String name, String desc);
  * Visits an array value of the annotation. Note that arrays of primitive
  * types (such as byte, boolean, short, char, int, long, float or double)
  * can be passed as value to {@link #visit visit}. This is what
```

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1.32 Bean Validation API 1.1.0. Final

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

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src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java contains test data from http://aspell.sourceforge.net/test/batch0.tab.

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*

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1.55 EasyMock class extension 3.1

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1.56 eureka-client 1.1.147

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AppleJavaExtensions

v 1.2

http://developer.apple.com/samplecode/AppleJavaExtensions/AppleJavaExtensions.html

This is a pluggable jar of stub classes representing the new Apple eAWT and eIO APIs for Java 1.4 on Mac OS X. The purpose of these stubs is to allow for compilation of eAWT- or eIO-referencing code on platforms other than Mac OS X. These stubs are not intended for the runtime classpath on non-Mac platforms. Please see the OSXAdapter sample for how to write cross-platform code that uses eAWT.

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Apple Java Extensions

v 1.2

This is a pluggable jar of stub classes representing the new Apple eAWT and eIO APIs for Java 1.4 on Mac OS X. The purpose of these stubs is to allow for compilation of eAWT- or eIO-referencing code on platforms other than Mac OS X. The jar file is enclosed in a zip archive for easy expansion on other platforms.

These stubs are not intended for the runtime classpath on non-Mac platforms. Please see the OSXAdapter sample for how to write cross-platform code that uses eAWT.

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Other developers who have contributed code are:

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1.83 jackson-databind 2.6.3

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1.104 javax.ws.rs-api 2.0.1

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// ====
package org.eclipse.jetty.http;
import java.io.IOException;
import org.eclipse.jetty.io.Buffer;
import org.eclipse.jetty.io.Buffers;
import org.eclipse.jetty.io.ByteArrayBuffer;
import org.eclipse.jetty.io.EndPoint;
import org.eclipse.jetty.io.EofException;
import org.eclipse.jetty.io.View;
import org.eclipse.jetty.util.log.Log;
import org.eclipse.jetty.util.log.Logger;
/**
* Abstract Generator. Builds HTTP Messages.
```

```
* Currently this class uses a system parameter "jetty.direct.writers" to control
* two optional writer to byte conversions. buffer.writers=true will probably be
* faster, but will consume more memory. This option is just for testing and tuning.
public abstract class AbstractGenerator implements Generator
 private static final Logger LOG = Log.getLogger(AbstractGenerator.class);
 // states
 public final static int STATE_HEADER = 0;
 public final static int STATE_CONTENT = 2;
 public final static int STATE_FLUSHING = 3;
 public final static int STATE_END = 4;
 public static final byte[] NO_BYTES = { };
 // data
 protected final Buffers _buffers; // source of buffers
 protected final EndPoint _endp;
 protected int _state = STATE_HEADER;
 protected int \_status = 0;
 protected int _version = HttpVersions.HTTP_1_1_ORDINAL;
 protected Buffer reason;
 protected Buffer _method;
 protected String _uri;
 protected long _contentWritten = 0;
 protected long _contentLength = HttpTokens.UNKNOWN_CONTENT;
 protected boolean _last = false;
 protected boolean _head = false;
 protected boolean _noContent = false;
 protected Boolean _persistent = null;
 protected Buffer _header; // Buffer for HTTP header (and maybe small _content)
 protected Buffer _buffer; // Buffer for copy of passed _content
 protected Buffer _content; // Buffer passed to addContent
 protected Buffer _date;
 private boolean _sendServerVersion;
 /**
```

```
* Constructor.
* @param buffers buffer pool
* @param io the end point
public AbstractGenerator(Buffers buffers, EndPoint io)
 this._buffers = buffers;
 this._{endp} = io;
}
/* _____*/
public abstract boolean isRequest();
/* _____*/
public abstract boolean isResponse();
/* _____*/
public boolean isOpen()
 return _endp.isOpen();
}
/* ------*/
public void reset()
 _state = STATE_HEADER;
 _{\text{status}} = 0;
 _version = HttpVersions.HTTP_1_1_ORDINAL;
 _reason = null;
 _last = false;
 _head = false;
 _noContent=false;
 _persistent = null;
 _contentWritten = 0;
 _contentLength = HttpTokens.UNKNOWN_CONTENT;
 _date = null;
 _content = null;
 _method=null;
}
public void returnBuffers()
 if (_buffer!=null && _buffer.length()==0)
   _buffers.returnBuffer(_buffer);
```

```
_buffer=null;
  if (_header!=null && _header.length()==0)
    _buffers.returnBuffer(_header);
    header=null;
}
/* _____*/
public void resetBuffer()
  if(_state>=STATE_FLUSHING)
    throw new IllegalStateException("Flushed");
  _last = false;
  _persistent=null;
  _contentWritten = 0;
  \_contentLength = HttpTokens.UNKNOWN\_CONTENT;
  _content=null;
  if (_buffer!=null)
    _buffer.clear();
}
* @return Returns the contentBufferSize.
public int getContentBufferSize()
{
  if (_buffer==null)
    _buffer=_buffers.getBuffer();
  return _buffer.capacity();
}
/* _____*/
* @param contentBufferSize The contentBufferSize to set.
public void increaseContentBufferSize(int contentBufferSize)
  if (_buffer==null)
    _buffer=_buffers.getBuffer();
  if (contentBufferSize > _buffer.capacity())
    Buffer nb = _buffers.getBuffer(contentBufferSize);
    nb.put(_buffer);
```

```
_buffers.returnBuffer(_buffer);
   _buffer = nb;
}
/* _____*/
public Buffer getUncheckedBuffer()
 return _buffer;
}
/* _____*/
public boolean getSendServerVersion ()
 return _sendServerVersion;
}
/* _____*/
public void setSendServerVersion (boolean sendServerVersion)
 _sendServerVersion = sendServerVersion;
}
/* -----*/
public int getState()
 return _state;
}
/* _____*/
public boolean isState(int state)
 return _state == state;
}
/* -----*/
public boolean isComplete()
 return _state == STATE_END;
}
/* -----*/
public boolean isIdle()
 return _state == STATE_HEADER && _method==null && _status==0;
}
```

```
public boolean isCommitted()
 return _state != STATE_HEADER;
}
/* _____*/
* @return Returns the head.
public boolean isHead()
 return _head;
}
/* -----*/
public void setContentLength(long value)
 if (value<0)
    _contentLength=HttpTokens.UNKNOWN_CONTENT;
    _contentLength=value;
}
/* -----*/
* @param head The head to set.
public void setHead(boolean head)
  _head = head;
}
/* -----*/
* @return <code>false</code> if the connection should be closed after a request has been read,
* <code>true</code> if it should be used for additional requests.
*/
public boolean isPersistent()
 return _persistent!=null
 ?_persistent.booleanValue()
 :(isRequest()?true:_version>HttpVersions.HTTP_1_0_ORDINAL);
}
public void setPersistent(boolean persistent)
 _persistent=persistent;
```

```
}
* @param version The version of the client the response is being sent to (NB. Not the version
       in the response, which is the version of the server).
public void setVersion(int version)
 if ( state != STATE HEADER)
    throw new IllegalStateException("STATE!=START "+_state);
 _version = version;
 if (_version==HttpVersions.HTTP_0_9_ORDINAL && _method!=null)
    _noContent=true;
}
/* _____*/
public int getVersion()
 return _version;
/* -----*/
* @see org.eclipse.jetty.http.Generator#setDate(org.eclipse.jetty.io.Buffer)
public void setDate(Buffer timeStampBuffer)
{
  _date=timeStampBuffer;
/* -----*/
*/
public void setRequest(String method, String uri)
 if (method==null || HttpMethods.GET.equals(method) )
    _method=HttpMethods.GET_BUFFER;
 else
    _method=HttpMethods.CACHE.lookup(method);
 if (_version==HttpVersions.HTTP_0_9_ORDINAL)
    _noContent=true;
}
/* _____*/
* @param status The status code to send.
```

```
* @param reason the status message to send.
public void setResponse(int status, String reason)
  if (_state != STATE_HEADER) throw new IllegalStateException("STATE!=START");
  _method=null;
  status = status;
  if (reason!=null)
    int len=reason.length();
    // TODO don't hard code
    if (len>1024)
      len=1024;
    _reason=new ByteArrayBuffer(len);
    for (int i=0;i<len;i++)
      char ch = reason.charAt(i);
      if (ch!='\r'&&ch!='\n')
        _reason.put((byte)ch);
      else
        _reason.put((byte)' ');
    }
  }
}
/* -----*/
/** Prepare buffer for unchecked writes.
* Prepare the generator buffer to receive unchecked writes
* @return the available space in the buffer.
* @throws IOException
public abstract int prepareUncheckedAddContent() throws IOException;
/* _____*/
void uncheckedAddContent(int b)
{
  _buffer.put((byte)b);
}
/* -----*/
public void completeUncheckedAddContent()
{
  if (_noContent)
    if(_buffer!=null)
      _buffer.clear();
  }
```

```
else
   _contentWritten+=_buffer.length();
   if (_head)
     _buffer.clear();
}
/* -----*/
public boolean isBufferFull()
 if (_buffer != null && _buffer.space()==0)
   if (_buffer.length()==0 && !_buffer.isImmutable())
     _buffer.compact();
   return _buffer.space()==0;
 return _content!=null && _content.length()>0;
}
/* _____*/
public boolean isWritten()
 return _contentWritten>0;
/* _____*/
public boolean isAllContentWritten()
 return _contentLength>=0 && _contentWritten>=_contentLength;
}
/* _____*/
public abstract void completeHeader(HttpFields fields, boolean allContentAdded) throws IOException;
/* ______*/
* Complete the message.
* @throws IOException
public void complete() throws IOException
 if (_state == STATE_HEADER)
   throw new IllegalStateException("State==HEADER");
```

```
if (_contentLength >= 0 && _contentLength != _contentWritten && !_head)
     if (LOG.isDebugEnabled())
        LOG.debug("ContentLength written="+_contentWritten+" != contentLength=="+_contentLength);
     _persistent = false;
   }
 }
 /* -----*/
 public abstract int flushBuffer() throws IOException;
 /* _____*/
 public void flush(long maxIdleTime) throws IOException
   // block until everything is flushed
   long now=System.currentTimeMillis();
   long end=now+maxIdleTime;
   Buffer content = _content;
   Buffer buffer = buffer;
   if (content!=null && content.length()>0 || buffer!=null && buffer.length()>0 || isBufferFull())
     flushBuffer();
     while (now<end && (content!=null && content.length()>0 ||buffer!=null && buffer.length()>0) &&
_endp.isOpen()&& !_endp.isOutputShutdown())
     {
       blockForOutput(end-now);
        now=System.currentTimeMillis();
      }
   }
 }
 /* ______*/
  * Utility method to send an error response. If the builder is not committed, this call is
  * equivalent to a setResponse, addContent and complete call.
  * @param code The error code
  * @param reason The error reason
  * @param content Contents of the error page
  * @param close True if the connection should be closed
  * @throws IOException if there is a problem flushing the response
 public void sendError(int code, String reason, String content, boolean close) throws IOException
 {
   if (close)
```

```
_persistent=false;
  if (isCommitted())
  {
    LOG.debug("sendError on committed: {} {}",code,reason);
  }
  else
   LOG.debug("sendError: {} {}",code,reason);
    setResponse(code, reason);
    if (content != null)
    {
      completeHeader(null, false);
      addContent(new View(new ByteArrayBuffer(content)), Generator.LAST);
    }
    else
    {
      completeHeader(null, true);
    complete();
  }
}
/* -----*/
* @return Returns the contentWritten.
public long getContentWritten()
{
  return _contentWritten;
/* -----*/
public void blockForOutput(long maxIdleTime) throws IOException
  if (_endp.isBlocking())
    try
      flushBuffer();
    }
    catch(IOException e)
      _endp.close();
      throw e;
```

```
else
{
    if (!_endp.blockWritable(maxIdleTime))
    {
        _endp.close();
        throw new EofException("timeout");
    }
    flushBuffer();
}
```

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```
//
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//
package org.eclipse.jetty.servlet;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.net.MalformedURLException;
import java.net.URL;
import java.util.ArrayList;
import java.util.Enumeration;
import java.util.List;
import java.util.Map;
```

import javax.servlet.RequestDispatcher; import javax.servlet.ServletContext; import javax.servlet.ServletException; import javax.servlet.UnavailableException; import javax.servlet.http.HttpServlet; import javax.servlet.http.HttpServletRequest; import javax.servlet.http.HttpServletResponse;

import org.eclipse.jetty.http.HttpContent; import org.eclipse.jetty.http.HttpFields; import org.eclipse.jetty.http.HttpHeaderValues; import org.eclipse.jetty.http.HttpHeaders; import org.eclipse.jetty.http.HttpMethods; import org.eclipse.jetty.http.MimeTypes; import org.eclipse.jetty.io.Buffer; import org.eclipse.jetty.io.ByteArrayBuffer; import org.eclipse.jetty.io.WriterOutputStream; import org.eclipse.jetty.server.AbstractHttpConnection; import org.eclipse.jetty.server.Connector; import org.eclipse.jetty.server.Dispatcher; import org.eclipse.jetty.server.HttpOutput; import org.eclipse.jetty.server.InclusiveByteRange; import org.eclipse.jetty.server.ResourceCache; import org.eclipse.jetty.server.Response; import org.eclipse.jetty.server.handler.ContextHandler; import org.eclipse.jetty.server.nio.NIOConnector; import org.eclipse.jetty.server.ssl.SslConnector; import org.eclipse.jetty.util.IO; import org.eclipse.jetty.util.MultiPartOutputStream; import org.eclipse.jetty.util.URIUtil; import org.eclipse.jetty.util.log.Log; import org.eclipse.jetty.util.log.Logger; import org.eclipse.jetty.util.resource.FileResource; import org.eclipse.jetty.util.resource.Resource; import org.eclipse.jetty.util.resource.ResourceCollection; import org.eclipse.jetty.util.resource.ResourceFactory;

```
/* -----*/
```

^{/**} The default servlet.

^{*} This servlet, normally mapped to /, provides the handling for static

^{*} content, OPTION and TRACE methods for the context.

^{*} The following initParameters are supported, these can be set either

^{*} on the servlet itself or as ServletContext initParameters with a prefix

^{*} of org.eclipse.jetty.servlet.Default.:

^{* &}lt;PRE>

```
acceptRanges
                 If true, range requests and responses are
           supported
dirAllowed
                If true, directory listings are returned if no
           welcome file is found. Else 403 Forbidden.
welcomeServlets If true, attempt to dispatch to welcome files
           that are servlets, but only after no matching static
           resources could be found. If false, then a welcome
           file must exist on disk. If "exact", then exact
           servlet matches are supported without an existing file.
           Default is true.
           This must be false if you want directory listings,
           but have index.jsp in your welcome file list.
redirectWelcome If true, welcome files are redirected rather than
           forwarded to.
             If set to true, then static content will be served as
gzip
           gzip content encoded if a matching resource is
           found ending with ".gz"
resourceBase
                 Set to replace the context resource base
                 If set, this is a context attribute name, which the servlet
resourceCache
           will use to look for a shared ResourceCache instance.
relativeResourceBase
           Set with a pathname relative to the base of the
           servlet context root. Useful for only serving static content out
           of only specific subdirectories.
                 If true, only the path info will be applied to the resourceBase
pathInfoOnly
stylesheet
              Set with the location of an optional stylesheet that will be used
           to decorate the directory listing html.
aliases
             If True, aliases of resources are allowed (eg. symbolic
           links and caps variations). May bypass security constraints.
maxCacheSize
                   The maximum total size of the cache or 0 for no cache.
maxCachedFileSize The maximum size of a file to cache
maxCachedFiles The maximum number of files to cache
useFileMappedBuffer
           If set to true, it will use mapped file buffer to serve static content
           when using NIO connector. Setting this value to false means that
```

```
a direct buffer will be used instead of a mapped file buffer.
             By default, this is set to true.
* cacheControl
                  If set, all static content will have this value set as the cache-control
             header.
* </PRE>
public class DefaultServlet extends HttpServlet implements ResourceFactory
 private static final Logger LOG = Log.getLogger(DefaultServlet.class);
 private static final long serialVersionUID = 4930458713846881193L;
 private ServletContext _servletContext;
 private ContextHandler _contextHandler;
 private boolean _acceptRanges=true;
 private boolean _dirAllowed=true;
 private boolean _welcomeServlets=false;
 private boolean _welcomeExactServlets=false;
 private boolean _redirectWelcome=false;
 private boolean _gzip=true;
 private boolean _pathInfoOnly=false;
 private Resource _resourceBase;
 private ResourceCache _cache;
 private MimeTypes _mimeTypes;
 private String[] _welcomes;
 private Resource _stylesheet;
 private boolean _useFileMappedBuffer=false;
 private ByteArrayBuffer _cacheControl;
 private String _relativeResourceBase;
 private ServletHandler _servletHandler;
 private ServletHolder _defaultHolder;
  @Override
 public void init()
 throws UnavailableException
    _servletContext=getServletContext();
```

```
_contextHandler = initContextHandler(_servletContext);
_mimeTypes = _contextHandler.getMimeTypes();
_welcomes = _contextHandler.getWelcomeFiles();
if (_welcomes==null)
  _welcomes=new String[] {"index.html","index.jsp"};
_acceptRanges=getInitBoolean("acceptRanges",_acceptRanges);
_dirAllowed=getInitBoolean("dirAllowed",_dirAllowed);
_redirectWelcome=getInitBoolean("redirectWelcome",_redirectWelcome);
_gzip=getInitBoolean("gzip",_gzip);
_pathInfoOnly=getInitBoolean("pathInfoOnly",_pathInfoOnly);
if ("exact".equals(getInitParameter("welcomeServlets")))
  _welcomeExactServlets=true;
  welcomeServlets=false;
}
else
  _welcomeServlets=getInitBoolean("welcomeServlets", _welcomeServlets);
if (getInitParameter("aliases")!=null)
  _contextHandler.setAliases(getInitBoolean("aliases",false));
boolean aliases=_contextHandler.isAliases();
if (!aliases && !FileResource.getCheckAliases())
  throw new IllegalStateException("Alias checking disabled");
if (aliases)
  _servletContext.log("Aliases are enabled");
_useFileMappedBuffer=getInitBoolean("useFileMappedBuffer",_useFileMappedBuffer);
_relativeResourceBase = getInitParameter("relativeResourceBase");
String rb=getInitParameter("resourceBase");
if (rb!=null)
  if (_relativeResourceBase!=null)
    throw new UnavailableException("resourceBase & relativeResourceBase");
  try{_resourceBase=_contextHandler.newResource(rb);}
  catch (Exception e)
  {
    LOG.warn(Log.EXCEPTION,e);
    throw new UnavailableException(e.toString());
```

```
String css=getInitParameter("stylesheet");
try
{
  if(css!=null)
     _stylesheet = Resource.newResource(css);
    if(!_stylesheet.exists())
       LOG.warn("!" + css);
       stylesheet = null;
     }
  }
  if(_stylesheet == null)
    _stylesheet = Resource.newResource(this.getClass().getResource("/jetty-dir.css"));
  }
catch(Exception e)
  LOG.warn(e.toString());
  LOG.debug(e);
}
String t=getInitParameter("cacheControl");
if (t!=null)
  _cacheControl=new ByteArrayBuffer(t);
String resourceCache = getInitParameter("resourceCache");
int max_cache_size=getInitInt("maxCacheSize", -2);
int max_cached_file_size=getInitInt("maxCachedFileSize", -2);
int max_cached_files=getInitInt("maxCachedFiles", -2);
if (resourceCache!=null)
  if (max_cache_size!=-1 || max_cached_file_size!= -2 || max_cached_files!=-2)
    LOG.debug("ignoring resource cache configuration, using resourceCache attribute");
  if (_relativeResourceBase!=null || _resourceBase!=null)
     throw new UnavailableException("resourceCache specified with resource bases");
  _cache=(ResourceCache)_servletContext.getAttribute(resourceCache);
  LOG.debug("Cache {}={}",resourceCache,_cache);
try
  if (_cache==null && max_cached_files>0)
    _cache= new ResourceCache(null,this,_mimeTypes,_useFileMappedBuffer);
```

```
if (max_cache_size>0)
         _cache.setMaxCacheSize(max_cache_size);
       if (max_cached_file_size>=-1)
         _cache.setMaxCachedFileSize(max_cached_file_size);
      if (max_cached_files>=-1)
         _cache.setMaxCachedFiles(max_cached_files);
    }
  catch (Exception e)
    LOG.warn(Log.EXCEPTION,e);
    throw new UnavailableException(e.toString());
  }
  _servletHandler= (ServletHandler) _contextHandler.getChildHandlerByClass(ServletHandler.class);
  for (ServletHolder h :_servletHandler.getServlets())
    if (h.getServletInstance()==this)
       defaultHolder=h;
  if (LOG.isDebugEnabled())
    LOG.debug("resource base = "+_resourceBase);
}
/**
* Compute the field _contextHandler.<br/>
* In the case where the DefaultServlet is deployed on the HttpService it is likely that
* this method needs to be overwritten to unwrap the ServletContext facade until we reach
* the original jetty's ContextHandler.
* @param servletContext The servletContext of this servlet.
* @return the jetty's ContextHandler for this servletContext.
protected ContextHandler initContextHandler(ServletContext servletContext)
  ContextHandler.Context scontext=ContextHandler.getCurrentContext();
  if (scontext==null)
    if (servletContext instanceof ContextHandler.Context)
       return ((ContextHandler.Context)servletContext).getContextHandler();
       throw new IllegalArgumentException("The servletContext " + servletContext + " " +
         servletContext.getClass().getName() + " is not " + ContextHandler.Context.class.getName());
  }
  else
    return ContextHandler.getCurrentContext().getContextHandler();
}
/* _____*/
@Override
```

```
public String getInitParameter(String name)
  String value=getServletContext().getInitParameter("org.eclipse.jetty.servlet.Default."+name);
  if (value==null)
    value=super.getInitParameter(name);
  return value;
}
/* _____*/
private boolean getInitBoolean(String name, boolean dft)
  String value=getInitParameter(name);
  if (value==null || value.length()==0)
    return dft;
  return (value.startsWith("t")||
      value.startsWith("T")||
      value.startsWith("y")||
      value.startsWith("Y")||
      value.startsWith("1"));
}
/* _____*/
private int getInitInt(String name, int dft)
  String value=getInitParameter(name);
  if (value==null)
    value=getInitParameter(name);
  if (value!=null && value.length()>0)
    return Integer.parseInt(value);
  return dft;
}
/* _____*/
/** get Resource to serve.
* Map a path to a resource. The default implementation calls
* HttpContext.getResource but derived servlets may provide
* their own mapping.
* @param pathInContext The path to find a resource for.
* @return The resource to serve.
*/
public Resource getResource(String pathInContext)
  Resource r=null;
  if (_relativeResourceBase!=null)
    pathInContext = URIUtil.addPaths (\_relativeResourceBase, pathInContext);\\
  try
```

```
if (_resourceBase!=null)
      r = _resourceBase.addPath(pathInContext);
    }
    else
    {
      URL u = _servletContext.getResource(pathInContext);
      r = _contextHandler.newResource(u);
    if (LOG.isDebugEnabled())
      LOG.debug("Resource "+pathInContext+"="+r);
  catch (IOException e)
    LOG.ignore(e);
  }
  if((r==null || !r.exists()) && pathInContext.endsWith("/jetty-dir.css"))
    r=_stylesheet;
  return r;
}
/* ------ */
@Override
protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException
  String servletPath=null;
  String pathInfo=null;
  Enumeration<String> reqRanges = null;
  Boolean included =request.getAttribute(Dispatcher.INCLUDE_REQUEST_URI)!=null;
  if (included!=null && included.booleanValue())
    servletPath=(String)request.getAttribute(Dispatcher.INCLUDE_SERVLET_PATH);
    pathInfo=(String)request.getAttribute(Dispatcher.INCLUDE_PATH_INFO);
    if (servletPath==null)
       servletPath=request.getServletPath();
      pathInfo=request.getPathInfo();
    }
  else
    included = Boolean.FALSE;
    servletPath = _pathInfoOnly?"/":request.getServletPath();
    pathInfo = request.getPathInfo();
```

```
// Is this a Range request?
  reqRanges = request.getHeaders(HttpHeaders.RANGE);
  if (!hasDefinedRange(reqRanges))
     reqRanges = null;
String pathInContext=URIUtil.addPaths(servletPath,pathInfo);
boolean endsWithSlash=(pathInfo==null?request.getServletPath():pathInfo).endsWith(URIUtil.SLASH);
// Can we gzip this request?
String pathInContextGz=null;
boolean gzip=false;
if \ (!included.booleanValue() \&\& \_gzip \&\& \ reqRanges == null \&\& \ !endsWithSlash \ )\\
  // Tell caches that response may vary by accept-encoding
  response.setHeader(HttpHeaders.VARY,HttpHeaders.ACCEPT_ENCODING);
  // Should we vary this response according to accept-encoding?
  String accept=request.getHeader(HttpHeaders.ACCEPT_ENCODING);
  if (accept!=null && accept.indexOf("gzip")>=0)
     gzip=true;
}
// Find the resource and content
Resource resource=null;
HttpContent content=null;
try
  // Try gzipped content first
  if (gzip)
    pathInContextGz=pathInContext+".gz";
    if (_cache==null)
       resource=getResource(pathInContextGz);
     }
    else
     {
       content=_cache.lookup(pathInContextGz);
       resource=(content==null)?null:content.getResource();
     }
    if (resource==null || !resource.exists() || resource.isDirectory())
     {
       gzip=false;
       pathInContextGz=null;
```

```
// find resource
                            if (!gzip)
                                     if (cache==null)
                                                resource=getResource(pathInContext);
                                      else
                                                content=_cache.lookup(pathInContext);
                                                resource=content==null?null:content.getResource();
                                       }
                            }
                            if (LOG.isDebugEnabled())
                                     LOG.debug("uri="+request.getRequestURI()+" resource="+resource+(content!=null?" content":""));
                           // Handle resource
                            if (resource==null || !resource.exists())
                                     if (included)
                                                 throw new FileNotFoundException("!" + pathInContext);
                                      response.sendError(HttpServletResponse.SC_NOT_FOUND);
                            }
                            else if (!resource.isDirectory())
                                     if (endsWithSlash && _contextHandler.isAliases() && pathInContext.length()>1)
                                                String q=request.getQueryString();
                                                 pathInContext=pathInContext.substring(0,pathInContext.length()-1);
                                                if (q!=null&&q.length()!=0)
                                                           pathInContext+="?"+q;
response.send Redirect (response.encode Redirect URL (URIU til.add Paths (\_servlet Context.get Context Path (), path In Context Path (), pa
ntext)));
                                       }
                                      else
                                                // ensure we have content
                                                if (content==null)
                                                            content=new
HttpContent. Resource As HttpContent (resource, \_mimeTypes.getMimeByExtension (resource.toString()), response.getMimeByExtension (resource.toString()), respo
BufferSize());
                                                 if \ (included.boolean Value() \parallel pass Conditional Headers (request, response, \ resource, content))
                                                          if (gzip)
```

```
response.setHeader(HttpHeaders.CONTENT_ENCODING,"gzip");
                                                                     String mt=_servletContext.getMimeType(pathInContext);
                                                                    if (mt!=null)
                                                                               response.setContentType(mt);
                                                           sendData(request,response,included.booleanValue(),resource,content,reqRanges);
                                                }
                                      }
                            }
                           else
                            {
                                     String welcome=null;
                                     if (!endsWithSlash || (pathInContext.length()==1 &&
request.getAttribute("org.eclipse.jetty.server.nullPathInfo")!=null))
                                                StringBuffer buf=request.getRequestURL();
                                                synchronized(buf)
                                                          int param=buf.lastIndexOf(";");
                                                          if (param<0)
                                                                     buf.append('/');
                                                          else
                                                                     buf.insert(param,'/');
                                                          String q=request.getQueryString();
                                                          if (q!=null&&q.length()!=0)
                                                                    buf.append('?');
                                                                    buf.append(q);
                                                          response.setContentLength(0);
                                                          response.sendRedirect(response.encodeRedirectURL(buf.toString()));
                                                }
                                      }
                                     // else look for a welcome file
                                     else if (null!=(welcome=getWelcomeFile(pathInContext)))
                                      {
                                                LOG.debug("welcome={}",welcome);
                                                if (_redirectWelcome)
                                                {
                                                          // Redirect to the index
                                                          response.setContentLength(0);
                                                          String q=request.getQueryString();
                                                          if (q!=null&&q.length()!=0)
                                                                     response.send Redirect (response.encode Redirect URL (URIU til.add Paths (URIU til.a
_servletContext.getContextPath(),welcome)+"?"+q));
                                                          else
                                                                     response.send Redirect (response.encode Redirect URL (URIU til.add Paths (URIU til.a
```

```
_servletContext.getContextPath(),welcome)));
           }
           else
           {
             // Forward to the index
             RequestDispatcher dispatcher=request.getRequestDispatcher(welcome);
             if (dispatcher!=null)
                if (included.booleanValue())
                  dispatcher.include(request,response);
                else
                  request.setAttribute("org.eclipse.jetty.server.welcome",welcome);
                  dispatcher.forward(request,response);
           }
        else
         {
           content=new
HttpContent. Resource As HttpContent (resource, \_mimeTypes.getMimeByExtension (resource.toString())); \\
           if (included.booleanValue() || passConditionalHeaders(request,response, resource,content))
              sendDirectory(request,response,resource,pathInContext);
         }
      }
    catch(IllegalArgumentException e)
      LOG.warn(Log.EXCEPTION,e);
      if(!response.isCommitted())
        response.sendError(500, e.getMessage());
    finally
      if (content!=null)
         content.release();
      else if (resource!=null)
        resource.release();
    }
  }
 private boolean hasDefinedRange(Enumeration<String> reqRanges)
  {
    return (reqRanges!=null && reqRanges.hasMoreElements());
  }
```

```
/* ______*/
 @Override
 protected void doPost(HttpServletRequest request, HttpServletResponse response)
 throws ServletException, IOException
   doGet(request,response);
 }
 /* ______*/
 /* (non-Javadoc)
  * @see javax.servlet.http.HttpServlet#doTrace(javax.servlet.http.HttpServletRequest,
javax.servlet.http.HttpServletResponse)
 @Override
 protected void doTrace(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException
   resp.sendError(HttpServletResponse.SC METHOD NOT ALLOWED);
 }
 /* _____*/
 @Override
 protected void doOptions(HttpServletRequest req, HttpServletResponse resp)
 throws ServletException, IOException
 {
   resp.setHeader("Allow", "GET,HEAD,POST,OPTIONS");
 /* _____ */
  * Finds a matching welcome file for the supplied {@link Resource}. This will be the first entry in the list of
  * configured {@link #_welcomes welcome files} that existing within the directory referenced by the
<code>Resource</code>.
  * If the resource is not a directory, or no matching file is found, then it may look for a valid servlet mapping.
  * If there is none, then <code>null</code> is returned.
  * The list of welcome files is read from the {@link ContextHandler} for this servlet, or
  * <code>"index.jsp", "index.html"</code> if that is <code>null</code>.
  * @param resource
  * @return The path of the matching welcome file in context or null.
  * @throws IOException
  * @throws MalformedURLException
 private String getWelcomeFile(String pathInContext) throws MalformedURLException, IOException
   if (_welcomes==null)
     return null;
   String welcome_servlet=null;
```

```
for (int i=0;i<_welcomes.length;i++)
     String welcome_in_context=URIUtil.addPaths(pathInContext,_welcomes[i]);
     Resource welcome=getResource(welcome_in_context);
     if (welcome!=null && welcome.exists())
        return _welcomes[i];
     if ((_welcomeServlets || _welcomeExactServlets) && welcome_servlet==null)
        Map.Entry entry=_servletHandler.getHolderEntry(welcome_in_context);
        if (entry!=null && entry.getValue()!=_defaultHolder &&
            (_welcomeServlets || (_welcomeExactServlets && entry.getKey().equals(welcome_in_context))))
          welcome_servlet=welcome_in_context;
      }
   }
   return welcome_servlet;
 /* _____*/
 /* Check modification date headers.
  */
 protected boolean passConditionalHeaders(HttpServletRequest request,HttpServletResponse response, Resource
resource, HttpContent content)
 throws IOException
 {
   try
     if (!request.getMethod().equals(HttpMethods.HEAD) )
        String ifms=request.getHeader(HttpHeaders.IF_MODIFIED_SINCE);
        if (ifms!=null)
          //Get jetty's Response impl
          Response r = Response.getResponse(response);
          if (content!=null)
            Buffer mdlm=content.getLastModified();
            if (mdlm!=null)
               if (ifms.equals(mdlm.toString()))
                 r.reset(true);
                 r.setStatus(HttpServletResponse.SC\_NOT\_MODIFIED);
                 r.flushBuffer();
                 return false;
```

```
}
        long ifmsl=request.getDateHeader(HttpHeaders.IF_MODIFIED_SINCE);
        if (ifmsl!=-1)
           if (resource.lastModified()/1000 <= ifmsl/1000)
             r.reset(true);
             r.setStatus(HttpServletResponse.SC_NOT_MODIFIED);
             r.flushBuffer();
             return false;
           }
         }
      }
      // Parse the if[un]modified dates and compare to resource
      long date=request.getDateHeader(HttpHeaders.IF_UNMODIFIED_SINCE);
      if (date!=-1)
        if (resource.lastModified()/1000 > date/1000)
           response.sendError(HttpServletResponse.SC_PRECONDITION_FAILED);
           return false;
         }
    }
  catch(IllegalArgumentException iae)
    if(!response.isCommitted())
      response.sendError(400, iae.getMessage());
    throw iae;
  return true;
/* -----*/
protected void sendDirectory(HttpServletRequest request,
    HttpServletResponse response,
    Resource resource,
    String pathInContext)
throws IOException
  if (!_dirAllowed)
```

}

{

```
response.sendError(HttpServletResponse.SC_FORBIDDEN);
  }
  byte[] data=null;
  String base = URIUtil.addPaths(request.getRequestURI(),URIUtil.SLASH);
  //If the DefaultServlet has a resource base set, use it
  if ( resourceBase != null)
    // handle ResourceCollection
    if (_resourceBase instanceof ResourceCollection)
       resource=_resourceBase.addPath(pathInContext);
  //Otherwise, try using the resource base of its enclosing context handler
  else if (_contextHandler.getBaseResource() instanceof ResourceCollection)
    resource=_contextHandler.getBaseResource().addPath(pathInContext);
  String dir = resource.getListHTML(base,pathInContext.length()>1);
  if (dir==null)
    response.sendError(HttpServletResponse.SC_FORBIDDEN,
    "No directory");
    return;
  data=dir.getBytes("UTF-8");
  response.setContentType("text/html; charset=UTF-8");
  response.setContentLength(data.length);
  response.getOutputStream().write(data);
}
/* -----*/
protected void sendData(HttpServletRequest request,
    HttpServletResponse response,
    boolean include,
    Resource resource,
    HttpContent content,
    Enumeration reqRanges)
throws IOException
  boolean direct;
  long content_length;
  if (content==null)
    direct=false;
    content_length=resource.length();
```

```
else
      Connector connector = AbstractHttpConnection.getCurrentConnection().getConnector();
      direct=connector instanceof NIOConnector && ((NIOConnector)connector).getUseDirectBuffers() &&
!(connector instanceof SslConnector);
      content_length=content.getContentLength();
    }
   // Get the output stream (or writer)
   OutputStream out =null;
   boolean written:
   try
      out = response.getOutputStream();
      // has a filter already written to the response?
      written = out instanceof HttpOutput
         ? ((HttpOutput)out).isWritten()
        : AbstractHttpConnection.getCurrentConnection().getGenerator().isWritten();
   catch(IllegalStateException e)
      out = new WriterOutputStream(response.getWriter());
      written=true; // there may be data in writer buffer, so assume written
   if ( reqRanges == null || !reqRanges.hasMoreElements() || content_length<0)
      // if there were no ranges, send entire entity
      if (include)
        resource.writeTo(out,0,content_length);
      }
      else
      {
        // See if a direct methods can be used?
        if (content!=null && !written && out instanceof HttpOutput)
           if (response instanceof Response)
             writeOptionHeaders(((Response)response).getHttpFields());
             ((AbstractHttpConnection.Output) out).sendContent(content);\\
           }
           else
              Buffer buffer = direct?content.getDirectBuffer():content.getIndirectBuffer();
```

```
if (buffer!=null)
            writeHeaders(response,content,content_length);
            ((AbstractHttpConnection.Output)out).sendContent(buffer);
          }
         else
            writeHeaders(response,content,content_length);
            resource.writeTo(out,0,content_length);
       }
    else
       // Write headers normally
       writeHeaders(response,content,written?-1:content_length);
       // Write content normally
       Buffer buffer = (content==null)?null:content.getIndirectBuffer();
       if (buffer!=null)
          buffer.writeTo(out);
       else
         resource.writeTo(out,0,content_length);
  }
else
  // Parse the satisfiable ranges
  List ranges = InclusiveByteRange.satisfiableRanges(reqRanges,content_length);
  // if there are no satisfiable ranges, send 416 response
  if (ranges==null || ranges.size()==0)
  {
     writeHeaders(response, content, content_length);
    response.setStatus(HttpServletResponse.SC\_REQUESTED\_RANGE\_NOT\_SATISFIABLE);
    response.setHeader(HttpHeaders.CONTENT_RANGE,
          InclusiveByteRange.to416HeaderRangeString(content_length));
    resource.writeTo(out,0,content_length);
    return;
  }
  // if there is only a single valid range (must be satisfiable
  // since were here now), send that range with a 216 response
  if (ranges.size()== 1)
  {
    InclusiveByteRange singleSatisfiableRange =
       (InclusiveByteRange)ranges.get(0);
```

```
long singleLength = singleSatisfiableRange.getSize(content_length);
  writeHeaders(response,content,singleLength
  response.setStatus(HttpServletResponse.SC_PARTIAL_CONTENT);
  response.setHeader(HttpHeaders.CONTENT_RANGE,
       singleSatisfiableRange.toHeaderRangeString(content_length));
  resource.writeTo(out,singleSatisfiableRange.getFirst(content_length),singleLength);
  return;
}
// multiple non-overlapping valid ranges cause a multipart
// 216 response which does not require an overall
// content-length header
//
writeHeaders(response,content,-1);
String mimetype=content.getContentType().toString();
MultiPartOutputStream multi = new MultiPartOutputStream(out);
response.setStatus(HttpServletResponse.SC_PARTIAL_CONTENT);
// If the request has a "Request-Range" header then we need to
// send an old style multipart/x-byteranges Content-Type. This
// keeps Netscape and acrobat happy. This is what Apache does.
String ctp;
if (request.getHeader(HttpHeaders.REQUEST_RANGE)!=null)
  ctp = "multipart/x-byteranges; boundary=";
else
  ctp = "multipart/byteranges; boundary=";
response.setContentType(ctp+multi.getBoundary());
InputStream in=resource.getInputStream();
long pos=0;
// calculate the content-length
int length=0;
String[] header = new String[ranges.size()];
for (int i=0;i<ranges.size();i++)
  InclusiveByteRange ibr = (InclusiveByteRange) ranges.get(i);
  header[i]=ibr.toHeaderRangeString(content_length);
  length+=
    ((i>0)?2:0)+
    2+multi.getBoundary().length()+2+
    HttpHeaders.CONTENT_TYPE.length()+2+mimetype.length()+2+
    HttpHeaders.CONTENT_RANGE.length()+2+header[i].length()+2+
    (ibr.getLast(content_length)-ibr.getFirst(content_length))+1;
}
length+=2+2+multi.getBoundary().length()+2+2;
response.setContentLength(length);
```

```
for (int i=0;i<ranges.size();i++)
       InclusiveByteRange ibr = (InclusiveByteRange) ranges.get(i);
       multi.startPart(mimetype,new String[]{HttpHeaders.CONTENT_RANGE+": "+header[i]});
      long start=ibr.getFirst(content_length);
      long size=ibr.getSize(content_length);
      if (in!=null)
         // Handle non cached resource
         if (start<pos)
           in.close();
           in=resource.getInputStream();
           pos=0;
         }
         if (pos<start)
           in.skip(start-pos);
           pos=start;
         }
         IO.copy(in,multi,size);
         pos+=size;
       }
       else
         // Handle cached resource
         (resource).writeTo(multi,start,size);
    }
    if (in!=null)
      in.close();
    multi.close();
  return;
/* -----*/
protected void writeHeaders(HttpServletResponse response,HttpContent content,long count)
throws IOException
  if (content.getContentType()!=null && response.getContentType()==null)
    response.setContentType(content.getContentType().toString());
  if (response instanceof Response)
    Response r=(Response)response;
    HttpFields fields = r.getHttpFields();
```

}

{

```
if (content.getLastModified()!=null)
      fields.put(HttpHeaders.LAST_MODIFIED_BUFFER,content.getLastModified());
    else if (content.getResource()!=null)
      long lml=content.getResource().lastModified();
      if (lml!=-1)
        fields.putDateField(HttpHeaders.LAST_MODIFIED_BUFFER,lml);
    }
    if (count != -1)
      r.setLongContentLength(count);
    writeOptionHeaders(fields);
  else
    long lml=content.getResource().lastModified();
    if (lml > = 0)
      response.set Date Header (Http Headers. LAST\_MODIFIED, lml); \\
    if (count != -1)
      if (count<Integer.MAX_VALUE)
        response.setContentLength((int)count);
      else
        response.setHeader(HttpHeaders.CONTENT_LENGTH,Long.toString(count));
    }
    writeOptionHeaders(response);
  }
/* _____*/
protected void writeOptionHeaders(HttpFields fields) throws IOException
  if (_acceptRanges)
    fields.put(HttpHeaders.ACCEPT_RANGES_BUFFER,HttpHeaderValues.BYTES_BUFFER);
  if (_cacheControl!=null)
    fields.put(HttpHeaders.CACHE_CONTROL_BUFFER,_cacheControl);
/* -----*/
protected void writeOptionHeaders(HttpServletResponse response) throws IOException
  if (_acceptRanges)
    response.set Header (HttpHeaders. ACCEPT\_RANGES, "bytes");\\
```

}

}

{

```
if (_cacheControl!=null)
    response.setHeader(HttpHeaders.CACHE_CONTROL,_cacheControl.toString());
}

/* _______*

/* @see javax.servlet.Servlet#destroy()

*/
@Override
public void destroy()

{
    if (_cache!=null)
        _cache.flushCache();
    super.destroy();
}

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19 May, 2009
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1.304 tomcat-embed-websocket 8.0.23

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1.305 value 2.0.16

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1.306 WebSocket server API 1.0

1.306.1 Available under license:

cat javax.websocket-api-1.0-sources-2/javax/websocket/DecodeException.java

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