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- */

```
package org.apache.commons.codec;
```

```
/**
```

```
* Defines common decoding methods for byte array decoders.
```

```
*
```

```
* @author Apache Software Foundation
```

```
* @version $Id: BinaryDecoder.java,v 1.10 2004/06/15 18:14:15 ggregory 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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- o The Board recommendation to remove Javadoc author tags has been implemented. All author tags are now "Apache Software Foundation".

Have fun!

-The commons-codec team

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*/

```
package org.objectweb.asm;
```

```
/**
```

```
* 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
 * { @link ClassReader} does.
 *
 * @param name the value name.
 * @return a visitor to visit the actual array value elements, or
 *         <tt>null</tt> if this visitor is not interested in visiting
 *         these values. The 'name' parameters passed to the methods of this
 *         visitor are ignored. <i>All the array values must be visited
 *         before calling other methods on this annotation visitor</i>.
 */
AnnotationVisitor visitArray(String name);

/**
 * Visits the end of the annotation.
 */
void visitEnd();
}

```

1.26 ASM helper Minidev 1.0.2

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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:

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Axis

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Bloodhound

Buildr

BVal

Camel

Cassandra

Cayenne

Chemistry

Chukwa

Clerezza

Click

CloudStack

Cocoon

Commons

Continuum
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Deltacloud
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/* Jackson JSON-processor.

*

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AppleJavaExtensions

v 1.2

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1.84 jackson-databind 2.6.3

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Jackson JSON processor

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1.85 jackson-databind 2.2.2

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1.1.1

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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;
    _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;
    else
        _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);
    _uri=uri;
    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 ByteBuffer(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 ByteBuffer(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. :
 * <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.
*
* gzip            If set to true, then static content will be served as
*                  gzip content encoded if a matching resource is
*                  found ending with ".gz"
*
* resourceBase    Set to replace the context resource base
*
* resourceCache   If set, this is a context attribute name, which the servlet
*                  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.
*
* pathInfoOnly    If true, only the path info will be applied to the resourceBase
*
* 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 ByteBuffer _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();
            else
                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(Headers.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.sendRedirect(response.encodeRedirectURL(URIUtil.addPaths(_servletContext.getContextPath(),pathInContext)));
    }
    else
    {
        // ensure we have content
        if (content==null)
            content=new
HttpContent.ResourceAsHttpContent(resource,_mimeTypes.getMimeByExtension(resource.toString()),response.get
BufferSize());

        if (included.booleanValue() || passConditionalHeaders(request,response, resource,content))
        {
            if (gzip)
            {
                response.setHeader(Headers.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.sendRedirect(response.encodeRedirectURL(URIUtil.addPaths(
                _servletContext.getContextPath(),welcome)+"?" +q));
        else
            response.sendRedirect(response.encodeRedirectURL(URIUtil.addPaths(
                _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.ResourceAsHttpContent(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);
        return;
    }

    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+
        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.setDateHeader(HttpHeaders.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.setHeader(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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1.305 tomcat-embed-logging-juli 8.0.23

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1.307 value 2.0.16

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