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## Contents

### **1.1 Apache Commons Lib Apache 2.0**

1.1.1 Available under license

### **1.2 Apache Jakarta Commons HttpClient 3.1**

1.2.1 Available under license

### **1.3 Apache Log4j 1.2.16**

1.3.1 Available under license

### **1.4 apache-log4j 1.2.15 :DUPLICATE**

1.4.1 Available under license

### **1.5 apache-log4j 1.2.15**

1.5.1 Available under license

### **1.6 aspectjrt 1.8.4**

1.6.1 Available under license

### **1.7 aspectjweaver 1.8.4**

1.7.1 Available under license

### **1.8 async-http-client 1.8.5**

1.8.1 Available under license

### **1.9 bcmail-jdk15 1.45**

1.9.1 Available under license

### **1.10 bcprov-jdk15 1.45**

1.10.1 Available under license

### **1.11 bcprov-jdk16 1.36**

1.11.1 Available under license

### **1.12 c3p0 0.9.1.2**

1.12.1 Available under license

### **1.13 cglib-nodep 2.2.2**

1.13.1 Available under license

- 1.14 Commons Lang 2.4**
  - 1.14.1 Available under license
- 1.15 Commons Logging 1.1.1**
  - 1.15.1 Available under license
- 1.16 commons-cli 1.2**
  - 1.16.1 Available under license
- 1.17 commons-codec 1.7**
  - 1.17.1 Available under license
- 1.18 commons-codec 1.5 :commons-codec-1.5.jar**
  - 1.18.1 Available under license
- 1.19 commons-codec 1.6**
  - 1.19.1 Available under license
- 1.20 commons-collections 3.2.1**
  - 1.20.1 Available under license
- 1.21 commons-configuration 1.6**
  - 1.21.1 Available under license
- 1.22 commons-configuration 1.7**
  - 1.22.1 Available under license
- 1.23 commons-dbcp (DUPLICATE) 1.4**
  - 1.23.1 Available under license
- 1.24 commons-discovery 0.4**
  - 1.24.1 Available under license
- 1.25 commons-httpclient 3.1**
  - 1.25.1 Available under license
- 1.26 commons-io 2.1**
  - 1.26.1 Available under license
- 1.27 commons-lang 2.6**
  - 1.27.1 Available under license
- 1.28 commons-lang 2.4**
  - 1.28.1 Available under license
- 1.29 commons-logging 1.1.1**
  - 1.29.1 Available under license
- 1.30 Crazybob - DebuggingObjectOutputStream 1.0**
  - 1.30.1 Available under license
- 1.31 distDES 0.1.0**
  - 1.31.1 Available under license
- 1.32 DOM 20001113**
  - 1.32.1 Available under license
- 1.33 ehcache-core 2.4.6**

- 1.33.1 Available under license
- 1.34 guava 13.0.1**
  - 1.34.1 Available under license
- 1.35 httpclient 4.2.3**
  - 1.35.1 Available under license
- 1.36 javax.servlet 3.0.0.v201112011016**
  - 1.36.1 Available under license
- 1.37 jboss-jaxb-api\_2.2\_spec 1.0.4.Final**
  - 1.37.1 Available under license
- 1.38 jdom 2.0.2**
  - 1.38.1 Notifications
  - 1.38.2 Available under license
- 1.39 jetty-continuation 8.1.7.v20120910**
  - 1.39.1 Available under license
- 1.40 jetty-http 8.1.7.v20120910**
  - 1.40.1 Available under license
- 1.41 jetty-io 8.1.7.v20120910**
  - 1.41.1 Available under license
- 1.42 jetty-security 8.1.7 :v20120910**
  - 1.42.1 Available under license
- 1.43 jetty-server 8.1.7.v20120910**
  - 1.43.1 Available under license
- 1.44 jetty-servlet 8.1.7.v20120910**
  - 1.44.1 Available under license
- 1.45 jetty-util 8.1.7.v20120910**
  - 1.45.1 Available under license
- 1.46 jetty-webapp 8.1.7 :v20120910**
  - 1.46.1 Available under license
- 1.47 jetty-xml 8.1.7 :v20120910**
  - 1.47.1 Available under license
- 1.48 Joda Time 2.1**
  - 1.48.1 Available under license
- 1.49 Joda-Time 1.6.2**
  - 1.49.1 Available under license
- 1.50 log4j 1.2.16**
  - 1.50.1 Available under license
- 1.51 Log4j 1.2.16**
  - 1.51.1 Available under license
- 1.52 mysql-connector-java 5.1.10**

- 1.52.1 Available under license
- 1.53 oro 2.0.8**
  - 1.53.1 Notifications
  - 1.53.2 Available under license
- 1.54 Quartz 1.5.2**
  - 1.54.1 Available under license
- 1.55 reflections 0.9.8**
  - 1.55.1 Available under license
- 1.56 relaxngDatatype 20020414**
  - 1.56.1 Available under license
- 1.57 scala-library 2.10.2**
  - 1.57.1 Available under license
- 1.58 scala-reflect 2.10.2**
  - 1.58.1 Available under license
- 1.59 Simple Logging Facade for Java (SLF4J) 1.7.2**
  - 1.59.1 Available under license
- 1.60 Spring Context 3.2.1.RELEASE**
  - 1.60.1 Available under license
- 1.61 Spring Framework 2.0.7**
  - 1.61.1 Available under license
- 1.62 spring-aop 3.0.5.RELEASE**
  - 1.62.1 Available under license
- 1.63 spring-aop 3.2.1.RELEASE**
  - 1.63.1 Available under license
- 1.64 spring-asm 3.0.3.RELEASE**
  - 1.64.1 Available under license
- 1.65 spring-asm 3.0.5.RELEASE**
  - 1.65.1 Available under license
- 1.66 spring-beans 3.0.5.RELEASE**
  - 1.66.1 Available under license
- 1.67 spring-beans 3.2.1.RELEASE**
  - 1.67.1 Available under license
- 1.68 spring-context 3.2.1**
  - 1.68.1 Available under license
- 1.69 spring-context 3.0.5.RELEASE**
  - 1.69.1 Available under license
- 1.70 spring-context-support 3.0.5.RELEASE**
  - 1.70.1 Available under license
- 1.71 spring-context-support 3.2.1.RELEASE**

- 1.71.1 Available under license
- 1.72 spring-core 3.0.5.RELEASE**
  - 1.72.1 Available under license
- 1.73 spring-expression 3.0.5.RELEASE**
  - 1.73.1 Available under license
- 1.74 spring-instrument 3.2.1.RELEASE**
  - 1.74.1 Available under license
- 1.75 spring-jdbc 3.2.1.RELEASE**
  - 1.75.1 Available under license
- 1.76 spring-jdbc 3.0.5.RELEASE**
  - 1.76.1 Available under license
- 1.77 spring-orm 3.0.5.RELEASE**
  - 1.77.1 Available under license
- 1.78 spring-tx 3.0.5.RELEASE**
  - 1.78.1 Available under license
- 1.79 spring-tx 3.2.1.RELEASE**
  - 1.79.1 Available under license
- 1.80 Xalan 2.7.1**
  - 1.80.1 Available under license
- 1.81 xsdlib 20060615**
  - 1.81.1 Available under license

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# 1.6 aspectjrt 1.8.4

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## 1.9 bcmail-jdk15 1.45

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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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## 1.38 jdom 2.0.2

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## 1.39 jetty-continuation 8.1.7.v20120910

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```
//  
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```

```
package org.eclipse.jetty.continuation;
```

```

import javax.servlet.Filter;
import javax.servlet.FilterChain;
import javax.servlet.Servlet;
import javax.servlet.ServletRequest;
import javax.servlet.ServletResponse;
import javax.servlet.ServletResponseWrapper;

/* ----- */
/**
 * Continuation.
 *
 * A continuation is a mechanism by which a HTTP Request can be suspended and
 * restarted after a timeout or an asynchronous event has occurred.
 *
 * <p>
 * The continuation mechanism is a portable mechanism that will work
 * asynchronously without additional configuration of all jetty-7,
 * jetty-8 and Servlet 3.0 containers. With the addition of
 * the { @link ContinuationFilter}, the mechanism will also work
 * asynchronously on jetty-6 and non-asynchronously on any
 * servlet 2.5 container.
 *
 * <p>
 * The Continuation API is a simplification of the richer async API
 * provided by the servlet-3.0 and an enhancement of the continuation
 * API that was introduced with jetty-6.
 *
 * </p>
 * <h1>Continuation Usage</h1>
 *
 * <p>
 * A continuation object is obtained for a request by calling the
 * factory method { @link ContinuationSupport#getContinuation(ServletRequest)}.
 * The continuation type returned will depend on the servlet container
 * being used.
 *
 * </p>
 *
 * <p>
 * There are two distinct style of operation of the continuation API.
 *
 * </p>
 *
 * <h3>Suspend/Resume Usage</h3>
 *
 * <p>The suspend/resume style is used when a servlet and/or
 * filter is used to generate the response after a asynchronous wait that is
 * terminated by an asynchronous handler.
 *
 * </p>
 *
 * <pre>
 * <b>Filter/Servlet:</b>
 * // if we need to get asynchronous results
 * Object results = request.getAttribute("results");
 * if (results==null)
 * {
 *     Continuation continuation = ContinuationSupport.getContinuation(request);

```

```

* continuation.suspend();
* myAsyncHandler.register(continuation);
* return; // or continuation.undispatch();
* }
*
* async wait ...
*
* <b>Async Handler:</b>
* // when the waited for event happens
* continuation.setAttribute("results",event);
* continuation.resume();
*
* <b>Filter/Servlet:</b>
* // when the request is redispached
* if (results==null)
* {
*   ... // see above
* }
* else
* {
*   response.getOutputStream().write(process(results));
* }
* </pre>
* <h3>Suspend/Complete Usage</h3>
* <p>
* The suspend/complete style is used when an asynchronous handler is used to
* generate the response:
* </p>
* <pre>
* <b>Filter/Servlet:</b>
* // when we want to enter asynchronous mode
* Continuation continuation = ContinuationSupport.getContinuation(request);
* continuation.suspend(response); // response may be wrapped
* myAsyncHandler.register(continuation);
* return; // or continuation.undispatch();
*
* <b>Wrapping Filter:</b>
* // any filter that had wrapped the response should be implemented like:
* try
* {
*   chain.doFilter(request,wrappedResponse);
* }
* finally
* {
*   if (!continuation.isResponseWrapped())
*     wrappedResponse.finish()
*   else
*     continuation.addContinuationListener(myCompleteListener)

```

```

* }
*
* async wait ...
*
* <b>Async Handler:</b>
* // when the async event happens
* continuation.getServletResponse().getOutputStream().write(process(event));
* continuation.complete()
* </pre>
*
* <h1>Continuation Timeout</h1>
* <p>
* If a continuation is suspended, but neither { @link #complete()} or { @link #resume()} is
* called during the period set by { @link #setTimeout(long)}, then the continuation will
* expire and { @link #isExpired()} will return true.
* </p>
* <p>
* When a continuation expires, the { @link ContinuationListener#onTimeout(Continuation)}
* method is called on any { @link ContinuationListener} that has been registered via the
* { @link #addContinuationListener(ContinuationListener)} method. The onTimeout handlers
* may write a response and call { @link #complete()}. If { @link #complete()} is not called,
* then the container will redispach the request as if { @link #resume()} had been called,
* except that { @link #isExpired()} will be true and { @link #isResumed()} will be false.
* </p>
*
* @see ContinuationSupport
* @see ContinuationListener
*
*/
public interface Continuation
{
    public final static String ATTRIBUTE = "org.eclipse.jetty.continuation";

    /* ----- */
    /**
     * Set the continuation timeout.
     *
     * @param timeoutMs
     *     The time in milliseconds to wait before expiring this
     *     continuation after a call to { @link #suspend()} or { @link #suspend(ServletResponse)}.
     *     A timeout of <=0 means the continuation will never expire.
     */
    void setTimeout(long timeoutMs);

    /* ----- */
    /**
     * Suspend the processing of the request and associated
     * { @link ServletResponse}.

```



```

*
* <p>
* After this method has been called, the lifecycle of the request will be
* extended beyond the return to the container from the
* {@link Servlet#service(ServletRequest, ServletResponse)} method and
* {@link Filter#doFilter(ServletRequest, ServletResponse, FilterChain)}
* calls. When a suspended request is returned to the container after
* a dispatch, then the container will not commit the associated response
* (unless an exception other than {@link ContinuationThrowable} is thrown).
* </p>
*
* <p>
* When the thread calling the filter chain and/or servlet has returned to
* the container with a suspended request, the thread is freed for other
* tasks and the request is held until either:
* <ul>
* <li>a call to {@link #resume()}.</li>
* <li>a call to {@link #complete()}.</li>
* <li>the timeout expires.</li>
* </ul>
* <p>
* Typically suspend with no arguments is uses when a call to {@link #resume()}
* is expected. If a call to {@link #complete()} is expected, then the
* {@link #suspend(ServletResponse)} method should be used instead of this method.
* </p>
*
* @exception IllegalStateException
*         If the request cannot be suspended
*/
void suspend();

/* ----- */
/**
* Suspend the processing of the request and associated
* {@link ServletResponse}.
*
* <p>
* After this method has been called, the lifecycle of the request will be
* extended beyond the return to the container from the
* {@link Servlet#service(ServletRequest, ServletResponse)} method and
* {@link Filter#doFilter(ServletRequest, ServletResponse, FilterChain)}
* calls. When a suspended request is returned to the container after
* a dispatch, then the container will not commit the associated response
* (unless an exception other than {@link ContinuationThrowable} is thrown).
* </p>
* <p>
* When the thread calling the filter chain and/or servlet has returned to

```

```

* the container with a suspended request, the thread is freed for other
* tasks and the request is held until either:
* <ul>
* <li>a call to {@link #resume()}.</li>
* <li>a call to {@link #complete()}.</li>
* <li>the timeout expires.</li>
* </ul>
* <p>
* Typically suspend with a response argument is uses when a call to {@link #complete()}
* is expected. If a call to {@link #resume()} is expected, then the
* {@link #suspend()} method should be used instead of this method.
* </p>
* <p>
* Filters that may wrap the response object should check {@link #isResponseWrapped()}
* to decide if they should destroy/finish the wrapper. If {@link #isResponseWrapped()}
* returns true, then the wrapped request has been passed to the asynchronous
* handler and the wrapper should not be destroyed/finished until after a call to
* {@link #complete()} (potentially using a {@link ContinuationListener#onComplete(Continuation)}
* listener).
*
* @param response The response to return via a call to {@link #getServletResponse()}
* @exception IllegalStateException
*         If the request cannot be suspended
*/
void suspend(ServletResponse response);

/* ----- */
/**
* Resume a suspended request.
*
* <p>
* This method can be called by any thread that has been passed a reference
* to a continuation. When called the request is redispached to the
* normal filter chain and servlet processing with {@link #isInitial()} false.
* </p>
* <p>
* If resume is called before a suspended request is returned to the
* container (ie the thread that called {@link #suspend()} is still
* within the filter chain and/or servlet service method), then the resume
* does not take effect until the call to the filter chain and/or servlet
* returns to the container. In this case both {@link #isSuspended()} and
* {@link #isResumed()} return true. Multiple calls to resume are ignored.
* </p>
* <p>
* Typically resume() is used after a call to {@link #suspend()} with
* no arguments. The dispatch after a resume call will use the original
* request and response objects, even if {@link #suspend(ServletResponse)}
* had been passed a wrapped response.

```

```

* </p>
*
* @see #suspend()
* @exception IllegalStateException if the request is not suspended.
*
*/
void resume();

/* ----- */
/**
 * Complete a suspended request.
 *
 * <p>
 * This method can be called by any thread that has been passed a reference
 * to a suspended request. When a request is completed, the associated
 * response object committed and flushed. The request is not redispached.
 * </p>
 *
 * <p>
 * If complete is called before a suspended request is returned to the
 * container (ie the thread that called { @link #suspend()} is still
 * within the filter chain and/or servlet service method), then the complete
 * does not take effect until the call to the filter chain and/or servlet
 * returns to the container. In this case both { @link #isSuspended()} and
 * { @link #isResumed()} return true.
 * </p>
 *
 * <p>
 * Typically resume() is used after a call to { @link #suspend(ServletResponse)} with
 * a possibly wrapped response. The async handler should use the response
 * provided by { @link #getServletResponse()} to write the response before
 * calling { @link #complete()}. If the request was suspended with a
 * call to { @link #suspend()} then no response object will be available via
 * { @link #getServletResponse()}.
 * </p>
 *
 * <p>
 * Once complete has been called and any thread calling the filter chain
 * and/or servlet chain has returned to the container, the request lifecycle
 * is complete. The container is able to recycle request objects, so it is
 * not valid hold a request or continuation reference after the end of the
 * life cycle.
 *
 * @see #suspend()
 * @exception IllegalStateException
 *         if the request is not suspended.
 *
 */

```

```

void complete();

/* ----- */
/**
 * @return true after { @link #suspend() } has been called and before the
 *     request has been redispached due to being resumed, completed or
 *     timed out.
 */
boolean isSuspended();

/* ----- */
/**
 * @return true if the request has been redispached by a call to
 *     { @link #resume() }. Returns false after any subsequent call to
 *     suspend
 */
boolean isResumed();

/* ----- */
/**
 * @return true after a request has been redispached as the result of a
 *     timeout. Returns false after any subsequent call to suspend.
 */
boolean isExpired();

/* ----- */
/**
 * @return true while the request is within the initial dispatch to the
 *     filter chain and/or servlet. Will return false once the calling
 *     thread has returned to the container after suspend has been
 *     called and during any subsequent redispach.
 */
boolean isInitial();

/* ----- */
/**
 * Is the suspended response wrapped.
 * <p>
 * Filters that wrap the response object should check this method to
 * determine if they should destroy/finish the wrapped response. If
 * the request was suspended with a call to { @link #suspend(ServletResponse) }
 * that passed the wrapped response, then the filter should register
 * a { @link ContinuationListener } to destroy/finish the wrapped response
 * during a call to { @link ContinuationListener#onComplete(Continuation) }.
 * @return True if { @link #suspend(ServletResponse) } has been passed a
 * { @link ServletResponseWrapper } instance.
 */
boolean isResponseWrapped();

```

```

/* ----- */
/**
 * Get the suspended response.
 * @return the {@link ServletResponse} passed to {@link #suspend(ServletResponse)}.
 */
ServletResponse getServletResponse();

/* ----- */
/**
 * Add a ContinuationListener.
 *
 * @param listener
 */
void addContinuationListener(ContinuationListener listener);

/* ----- */
/** Set a request attribute.
 * This method is a convenience method to call the {@link ServletRequest#setAttribute(String, Object)}
 * method on the associated request object.
 * This is a thread safe call and may be called by any thread.
 * @param name the attribute name
 * @param attribute the attribute value
 */
public void setAttribute(String name, Object attribute);

/* ----- */
/** Get a request attribute.
 * This method is a convenience method to call the {@link ServletRequest#getAttribute(String)}
 * method on the associated request object.
 * This is a thread safe call and may be called by any thread.
 * @param name the attribute name
 * @return the attribute value
 */
public Object getAttribute(String name);

/* ----- */
/** Remove a request attribute.
 * This method is a convenience method to call the {@link ServletRequest#removeAttribute(String)}
 * method on the associated request object.
 * This is a thread safe call and may be called by any thread.
 * @param name the attribute name
 */
public void removeAttribute(String name);

/* ----- */
/**

```

```

* Undispatch the request.
* <p>
* This method can be called on a suspended continuation in order
* to exit the dispatch to the filter/servlet by throwing a {@link ContinuationThrowable}
* which is caught either by the container or the {@link ContinuationFilter}.
* This is an alternative to simply returning from the dispatch in the case
* where filters in the filter chain may not be prepared to handle a suspended
* request.
* </p>
* This method should only be used as a last resort and a normal return is a preferable
* solution if filters can be updated to handle that case.
*
* @throws ContinuationThrowable thrown if the request is suspended. The instance of the
* exception may be reused on subsequent calls, so the stack frame may not be accurate.
*/
public void undispatch() throws ContinuationThrowable;
}

```

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# 1.40 jetty-http 8.1.7.v20120910

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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(Buffer 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();
    }
}
}

```

## 1.41 jetty-io 8.1.7.v20120910

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```
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//
```

```
package org.eclipse.jetty.io;
```

```
import java.io.IOException;  
import java.io.InputStream;  
import java.io.OutputStream;
```

```
import org.eclipse.jetty.util.TypeUtil;  
import org.eclipse.jetty.util.log.Log;  
import org.eclipse.jetty.util.log.Logger;
```

```
/**  
 *  
 */
```

```
public abstract class AbstractBuffer implements Buffer  
{  
    private static final Logger LOG = Log.getLogger(AbstractBuffer.class);
```

```

private final static boolean __boundsChecking =
Boolean.getBoolean("org.eclipse.jetty.io.AbstractBuffer.boundsChecking");

protected final static String
__IMMUTABLE = "IMMUTABLE",
__READONLY = "READONLY",
__READWRITE = "READWRITE",
__VOLATILE = "VOLATILE";

protected int _access;
protected boolean _volatile;

protected int _get;
protected int _put;
protected int _hash;
protected int _hashGet;
protected int _hashPut;
protected int _mark;
protected String _string;
protected View _view;

/**
 * Constructor for BufferView
 *
 * @param access 0==IMMUTABLE, 1==READONLY, 2==READWRITE
 */
public AbstractBuffer(int access, boolean isVolatile)
{
    if (access == IMMUTABLE && isVolatile)
        throw new IllegalArgumentException("IMMUTABLE && VOLATILE");
    setMarkIndex(-1);
    _access = access;
    _volatile = isVolatile;
}

/**
 * @see org.eclipse.io.Buffer#toArray()
 */
public byte[] asArray()
{
    byte[] bytes = new byte[length()];
    byte[] array = array();
    if (array != null)
        System.arraycopy(array, getIndex(), bytes, 0, bytes.length);
    else
        peek(getIndex(), bytes, 0, length());
    return bytes;
}

```

```

public ByteBuffer duplicate(int access)
{
    Buffer b=this.buffer();
    if (this instanceof Buffer.CaseInsensitive || b instanceof Buffer.CaseInsensitive)
        return new ByteBuffer.CaseInsensitive(asArray(), 0, length(),access);
    else
        return new ByteBuffer(asArray(), 0, length(), access);
}

/*
 * @see org.eclipse.io.Buffer#asNonVolatile()
 */
public Buffer asNonVolatileBuffer()
{
    if (!isVolatile()) return this;
    return duplicate(_access);
}

public Buffer asImmutableBuffer()
{
    if (isImmutable()) return this;
    return duplicate(IMMUTABLE);
}

/*
 * @see org.eclipse.util.Buffer#asReadOnlyBuffer()
 */
public Buffer asReadOnlyBuffer()
{
    if (isReadOnly()) return this;
    return new View(this, markIndex(), getIndex(), putIndex(), READONLY);
}

public Buffer asMutableBuffer()
{
    if (!isImmutable()) return this;

    Buffer b=this.buffer();
    if (b.isReadOnly())
    {
        return duplicate(READWRITE);
    }
    return new View(b, markIndex(), getIndex(), putIndex(), _access);
}

public Buffer buffer()
{

```



```

    return this;
}

public void clear()
{
    setMarkIndex(-1);
    setGetIndex(0);
    setPutIndex(0);
}

public void compact()
{
    if (isReadOnly()) throw new IllegalStateException(__READONLY);
    int s = markIndex() >= 0 ? markIndex() : getIndex();
    if (s > 0)
    {
        byte array[] = array();
        int length = putIndex() - s;
        if (length > 0)
        {
            if (array != null)
                System.arraycopy(array(), s, array(), 0, length);
            else
                poke(0, peek(s, length));
        }
        if (markIndex() > 0) setMarkIndex(markIndex() - s);
        setGetIndex(getIndex() - s);
        setPutIndex(putIndex() - s);
    }
}

@Override
public boolean equals(Object obj)
{
    if (obj==this)
        return true;

    // reject non buffers;
    if (obj == null || !(obj instanceof Buffer)) return false;
    Buffer b = (Buffer) obj;

    if (this instanceof Buffer.CaseInsensitive || b instanceof Buffer.CaseInsensitive)
        return equalsIgnoreCase(b);

    // reject different lengths
    if (b.length() != length()) return false;

    // reject AbstractBuffer with different hash value

```

```

if (_hash != 0 && obj instanceof AbstractBuffer)
{
    AbstractBuffer ab = (AbstractBuffer) obj;
    if (ab._hash != 0 && _hash != ab._hash) return false;
}

// Nothing for it but to do the hard grind.
int get=getIndex();
int bi=b.putIndex();
for (int i = putIndex(); i-->get;)
{
    byte b1 = peek(i);
    byte b2 = b.peek(--bi);
    if (b1 != b2) return false;
}
return true;
}

public boolean equalsIgnoreCase(Buffer b)
{
    if (b==this)
        return true;

    // reject different lengths
    if (b.length() != length()) return false;

    // reject AbstractBuffer with different hash value
    if (_hash != 0 && b instanceof AbstractBuffer)
    {
        AbstractBuffer ab = (AbstractBuffer) b;
        if (ab._hash != 0 && _hash != ab._hash) return false;
    }

    // Nothing for it but to do the hard grind.
    int get=getIndex();
    int bi=b.putIndex();

    byte[] array = array();
    byte[] barray= b.array();
    if (array!=null && barray!=null)
    {
        for (int i = putIndex(); i-->get;)
        {
            byte b1 = array[i];
            byte b2 = barray[--bi];
            if (b1 != b2)
            {
                if ('a' <= b1 && b1 <= 'z') b1 = (byte) (b1 - 'a' + 'A');
            }
        }
    }
}

```

```

        if ('a' <= b2 && b2 <= 'z') b2 = (byte) (b2 - 'a' + 'A');
        if (b1 != b2) return false;
    }
}
else
{
    for (int i = putIndex(); i-->get;)
    {
        byte b1 = peek(i);
        byte b2 = b.peek(--bi);
        if (b1 != b2)
        {
            if ('a' <= b1 && b1 <= 'z') b1 = (byte) (b1 - 'a' + 'A');
            if ('a' <= b2 && b2 <= 'z') b2 = (byte) (b2 - 'a' + 'A');
            if (b1 != b2) return false;
        }
    }
}
return true;
}

```

```
public byte get()
```

```
{
    return peek(_get++);
}
```

```
public int get(byte[] b, int offset, int length)
```

```
{
    int gi = getIndex();
    int l=length();
    if (l==0)
        return -1;

    if (length>l)
        length=l;

    length = peek(gi, b, offset, length);
    if (length>0)
        setGetIndex(gi + length);
    return length;
}
```

```
public Buffer get(int length)
```

```
{
    int gi = getIndex();
    Buffer view = peek(gi, length);
    setGetIndex(gi + length);
}
```

```

    return view;
}

public final int getIndex()
{
    return _get;
}

public boolean hasContent()
{
    return _put > _get;
}

@Override
public int hashCode()
{
    if (_hash == 0 || _hashGet!=_get || _hashPut!=_put)
    {
        int get=getIndex();
        byte[] array = array();
        if (array==null)
        {
            for (int i = putIndex(); i-- >get;)
            {
                byte b = peek(i);
                if ('a' <= b && b <= 'z')
                    b = (byte) (b - 'a' + 'A');
                _hash = 31 * _hash + b;
            }
        }
        else
        {
            for (int i = putIndex(); i-- >get;)
            {
                byte b = array[i];
                if ('a' <= b && b <= 'z')
                    b = (byte) (b - 'a' + 'A');
                _hash = 31 * _hash + b;
            }
        }
        if (_hash == 0)
            _hash = -1;
        _hashGet=_get;
        _hashPut=_put;
    }
    return _hash;
}

```

```

public boolean isImmutable()
{
    return _access <= IMMUTABLE;
}

public boolean isReadOnly()
{
    return _access <= READONLY;
}

public boolean isVolatile()
{
    return _volatile;
}

public int length()
{
    return _put - _get;
}

public void mark()
{
    setMarkIndex(_get - 1);
}

public void mark(int offset)
{
    setMarkIndex(_get + offset);
}

public int markIndex()
{
    return _mark;
}

public byte peek()
{
    return peek(_get);
}

public Buffer peek(int index, int length)
{
    if (_view == null)
    {
        _view = new View(this, -1, index, index + length, isReadOnly() ? READONLY : READWRITE);
    }
    else

```

```

    {
        _view.update(this.buffer());
        _view.setMarkIndex(-1);
        _view.setGetIndex(0);
        _view.setPutIndex(index + length);
        _view.setGetIndex(index);
    }
    return _view;
}

public int poke(int index, Buffer src)
{
    _hash=0;
    /*
    if (isReadOnly())
        throw new IllegalStateException(__READONLY);
    if (index < 0)
        throw new IllegalArgumentException("index<0: " + index + "<0");
    */

    int length=src.length();
    if (index + length > capacity())
    {
        length=capacity()-index;
        /*
        if (length<0)
            throw new IllegalArgumentException("index>capacity(): " + index + ">" + capacity());
        */
    }

    byte[] src_array = src.array();
    byte[] dst_array = array();
    if (src_array != null && dst_array != null)
        System.arraycopy(src_array, src.getIndex(), dst_array, index, length);
    else if (src_array != null)
    {
        int s=src.getIndex();
        for (int i=0;i<length;i++)
            poke(index++,src_array[s++]);
    }
    else if (dst_array != null)
    {
        int s=src.getIndex();
        for (int i=0;i<length;i++)
            dst_array[index++]=src.peek(s++);
    }
    else

```

```

    {
        int s=src.getIndex();
        for (int i=0;i<length;i++)
            poke(index++,src.peek(s++));
    }

    return length;
}

public int poke(int index, byte[] b, int offset, int length)
{
    _hash=0;
    /*
    if (isReadOnly())
        throw new IllegalStateException(__READONLY);
    if (index < 0)
        throw new IllegalArgumentException("index<0: " + index + "<0");
    */
    if (index + length > capacity())
    {
        length=capacity()-index;
        /* if (length<0)
        throw new IllegalArgumentException("index>capacity(): " + index + ">" + capacity());
        */
    }

    byte[] dst_array = array();
    if (dst_array != null)
        System.arraycopy(b, offset, dst_array, index, length);
    else
    {
        int s=offset;
        for (int i=0;i<length;i++)
            poke(index++,b[s++]);
    }
    return length;
}

public int put(Buffer src)
{
    int pi = putIndex();
    int l=poke(pi, src);
    setPutIndex(pi + l);
    return l;
}

public void put(byte b)

```

```

{
    int pi = putIndex();
    poke(pi, b);
    setPutIndex(pi + 1);
}

public int put(byte[] b, int offset, int length)
{
    int pi = putIndex();
    int l = poke(pi, b, offset, length);
    setPutIndex(pi + 1);
    return l;
}

public int put(byte[] b)
{
    int pi = putIndex();
    int l = poke(pi, b, 0, b.length);
    setPutIndex(pi + 1);
    return l;
}

public final int putIndex()
{
    return _put;
}

public void reset()
{
    if (markIndex() >= 0) setGetIndex(markIndex());
}

public void rewind()
{
    setGetIndex(0);
    setMarkIndex(-1);
}

public void setGetIndex(int getIndex)
{
    /* bounds checking
    if (isImmutable())
        throw new IllegalStateException(__IMMUTABLE);
    if (getIndex < 0)
        throw new IllegalArgumentException("getIndex<0: " + getIndex + "<0");
    if (getIndex > putIndex())
        throw new IllegalArgumentException("getIndex>putIndex: " + getIndex + ">" + putIndex());
    */
}

```



```

    _get = getIndex;
    _hash=0;
}

public void setMarkIndex(int index)
{
    /*
    if (index>=0 && isImmutable())
        throw new IllegalStateException(__IMMUTABLE);
    */
    _mark = index;
}

public void setPutIndex(int putIndex)
{
    /* bounds checking
    if (isImmutable())
        throw new IllegalStateException(__IMMUTABLE);
    if (putIndex > capacity())
        throw new IllegalArgumentException("putIndex>capacity: " + putIndex + ">" + capacity());
    if (getIndex() > putIndex)
        throw new IllegalArgumentException("getIndex>putIndex: " + getIndex() + ">" + putIndex);
    */
    _put = putIndex;
    _hash=0;
}

public int skip(int n)
{
    if (length() < n) n = length();
    setGetIndex(getIndex() + n);
    return n;
}

public Buffer slice()
{
    return peek(getIndex(), length());
}

public Buffer sliceFromMark()
{
    return sliceFromMark(getIndex() - markIndex() - 1);
}

public Buffer sliceFromMark(int length)
{
    if (markIndex() < 0) return null;
    Buffer view = peek(markIndex(), length);

```

```

    setMarkIndex(-1);
    return view;
}

public int space()
{
    return capacity() - _put;
}

public String toDetailString()
{
    StringBuilder buf = new StringBuilder();
    buf.append("[");
    buf.append(super.hashCode());
    buf.append(",");
    buf.append(this.buffer().hashCode());
    buf.append(",m=");
    buf.append(markIndex());
    buf.append(",g=");
    buf.append(getIndex());
    buf.append(",p=");
    buf.append(putIndex());
    buf.append(",c=");
    buf.append(capacity());
    buf.append("]={");
    if (markIndex() >= 0)
    {
        for (int i = markIndex(); i < getIndex(); i++)
        {
            byte b = peek(i);
            TypeUtil.toHexString(b,buf);
        }
        buf.append("}{");
    }
    int count = 0;
    for (int i = getIndex(); i < putIndex(); i++)
    {
        byte b = peek(i);
        TypeUtil.toHexString(b,buf);
        if (count++ == 50)
        {
            if (putIndex() - i > 20)
            {
                buf.append(" ... ");
                i = putIndex() - 20;
            }
        }
    }
}

```

```

        buf.append(' ');
        return buf.toString();
    }

    /* ----- */
    @Override
    public String toString()
    {
        if (isImmutable())
        {
            if (_string == null)
                _string = new String(asArray(), 0, length());
            return _string;
        }
        return new String(asArray(), 0, length());
    }

    /* ----- */
    public String toString(String charset)
    {
        try
        {
            byte[] bytes=array();
            if (bytes!=null)
                return new String(bytes,getIndex(),length(),charset);
            return new String(asArray(), 0, length(),charset);
        }
        catch(Exception e)
        {
            LOG.warn(e);
            return new String(asArray(), 0, length());
        }
    }

    /* ----- */
    public String toDebugString()
    {
        return getClass()+"@"+super.hashCode();
    }

    /* ----- */
    public void writeTo(OutputStream out)
        throws IOException
    {
        byte[] array = array();

        if (array!=null)

```

```

    {
        out.write(array,getIndex(),length());
    }
else
{
    int len = this.length();
    byte[] buf=new byte[len>1024?1024:len];
    int offset=_get;
    while (len>0)
    {
        int l=peek(offset,buf,0,len>buf.length?buf.length:len);
        out.write(buf,0,l);
        offset+=l;
        len-=l;
    }
}
clear();
}

/* ----- */
public int readFrom(InputStream in,int max) throws IOException
{
    byte[] array = array();
    int s=space();
    if (s>max)
        s=max;

    if (array!=null)
    {
        int l=in.read(array,_put,s);
        if (l>0)
            _put+=l;
        return l;
    }
else
{
    byte[] buf=new byte[s>1024?1024:s];
    int total=0;
    while (s>0)
    {
        int l=in.read(buf,0,buf.length);
        if (l<0)
            return total>0?total:-1;
        int p=put(buf,0,l);
        assert l==p;
        s-=l;
    }
    return total;
}

```

```
}  
}  
}
```

# 1.42 jetty-security 8.1.7 :v20120910

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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 ByteBuffer(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(),pathInCo
ncontext)));
    }
    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(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.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(Headers.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+
        Headers.CONTENT_TYPE.length()+2+mimetype.length()+2+
        Headers.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[]{Headers.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(HttpServletRequest 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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```
/*! jQuery UI - v1.9.0 - 2012-10-05
 * http://jqueryui.com
 * Includes: jquery.ui.core.js, jquery.ui.widget.js, jquery.ui.mouse.js, jquery.ui.position.js, jquery.ui.accordion.js,
 jquery.ui.autocomplete.js, jquery.ui.button.js, jquery.ui.datepicker.js, jquery.ui.dialog.js, jquery.ui.draggable.js,
 jquery.ui.droppable.js, jquery.ui.effect.js, jquery.ui.effect-blind.js, jquery.ui.effect-bounce.js, jquery.ui.effect-clip.js,
 jquery.ui.effect-drop.js, jquery.ui.effect-explode.js, jquery.ui.effect-fade.js, jquery.ui.effect-fold.js, jquery.ui.effect-
highlight.js, jquery.ui.effect-pulsate.js, jquery.ui.effect-scale.js, jquery.ui.effect-shake.js, jquery.ui.effect-slide.js,
 jquery.ui.effect-transfer.js, jquery.ui.menu.js, jquery.ui.progressbar.js, jquery.ui.resizable.js, jquery.ui.selectable.js,
 jquery.ui.slider.js, jquery.ui.sortable.js, jquery.ui.spinner.js, jquery.ui.tabs.js, jquery.ui.tooltip.js
 * Copyright (c) 2012 jQuery Foundation and other contributors Licensed MIT */
/*! jQuery v1.8.2 jquery.com | jquery.org/license */
/**
 * @preserve jquery.layout 1.3.0 - Release Candidate 30.62
 * $Date: 2012-08-04 08:00:00 (Thu, 23 Aug 2012) $
 * $Rev: 303006 $
 *
 * Copyright (c) 2012
 * Fabrizio Balliano (http://www.fabrizioballiano.net)
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 */
```

```

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*
* Changelog: http://layout.jquery-dev.net/changelog.cfm#1.3.0.rc30.62
* NOTE: This is a short-term release to patch a couple of bugs.
* These bugs are listed as officially fixed in RC30.7, which will be released shortly.
*
* Docs: http://layout.jquery-dev.net/documentation.html
* Tips: http://layout.jquery-dev.net/tips.html
* Help: http://groups.google.com/group/jquery-ui-layout
*/
/**
* jquery.layout.state 1.0
* $Date: 2011-07-16 08:00:00 (Sat, 16 July 2011) $
*
* Copyright (c) 2010
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*
* @dependancies: UI Layout 1.3.0.rc30.1 or higher
* @dependancies: $.ui.cookie (above)
*
* @support: http://groups.google.com/group/jquery-ui-layout
*/
/**
* jquery.layout.buttons 1.0
* $Date: 2011-07-16 08:00:00 (Sat, 16 July 2011) $
*
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*
* @dependancies: UI Layout 1.3.0.rc30.1 or higher
*
* @support: http://groups.google.com/group/jquery-ui-layout
*
* Docs: [ to come ]
* Tips: [ to come ]
*/
/**
* jquery.layout.browserZoom 1.0
* $Date: 2011-12-29 08:00:00 (Thu, 29 Dec 2011) $
*
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*
* Dual licensed under the GPL (http://www.gnu.org/licenses/gpl.html)
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*
* @dependencies: UI Layout 1.3.0.rc30.1 or higher
*
* @support: http://groups.google.com/group/jquery-ui-layout
*
* @todo: Extend logic to handle other problematic zooming in browsers
* @todo: Add hotkey/mousewheel bindings to _instantly_ respond to these zoom event
*/
// +-----+ \\
// and; Raphaël 2.1.0 - JavaScript Vector Library          and; \\
// +-----and; \\
// and; Copyright © 2008-2012 Dmitry Baranovskiy (http://raphaeljs.com) and; \\
// and; Copyright © 2008-2012 Sencha Labs (http://sencha.com)          and; \\
// +-----and; \\
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*
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*
* Launch : November 2008
* Date: ${date}
* Revision: ${revision}
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### 1.7.2

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