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```
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 * httpd@ncsa.uiuc.edu
 *
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1.8 apache-log4j 1.2.15

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1.9 args4j 2.0.12

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1.10 bcprov-jdk16 1.36

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1.11 cglib-nodep 2.1_3

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- ACE
- ActiveMQ
- Airavata
- Ambari
- Ant
- Any23
- APR

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Avro
Axis
Bigtop
Bloodhound
Buildr
BVal
Camel
Cassandra
Cayenne
Chemistry
Chukwa
Clerezza
Click
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Cocoon
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Cordova
CouchDB
Creadur
Crunch
cTAKES
Curator
CXF
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Etch
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Giraph
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Hive
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Jackrabbit
James

jclouds
Jena
JMeter
JSPWiki
jUDDI
Kafka
Karaf
Lenya
Libcloud
Logging
Lucene
Lucene.Net
Lucy
Mahout
ManifoldCF
Marmotta
Maven
Mesos
MINA
MRUnit
MyFaces
Nutch
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OFBiz
Oltu
Onami
OODT
Oozie
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PDFBox
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Pig
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POI
Portals
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CSS (generic), Cascading Style Sheets Specification
DOM (generic), Document Object Model
DSig (generic), Digital Signature Initiative
HTML (generic), HyperText Markup Language
HTTP (generic), Hypertext Transfer Protocol
JEP (generic)I, Joint Electronic Payment Initiative
Jigsawö, Java Web Server
MathML (generic), Mathematical Markup Language
Metadata (generic)
P3P, Platform for Privacy Preferences Project
PICS (generic), Platform for Internet Content Selection
PICSRules (generic), Rules Language for PICS
RDF (generic), Resource Description Framework
SMIL (generic), Synchronized Multimedia Integration Language
SVG (generic), Scalable Vector Graphics
WAIö, Web Accessibility Initiative
WebFonts (generic)
XENC (generic), XML Encryption
XHTML (generic), The Extensible HyperText Markup Language
XML (generic), Extensible Markup Language
XMLDSIG (generic), XML Signatures
XSL (generic), Extensible Stylesheet Language

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1.27 guava 13.0.1

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1.28 httpclient 4.2.3

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1.33 jetty-annotations 8.1.21.v20160908

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1.35 jetty-continuation 8.1.21.v20160908

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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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```

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1.36 jetty-http 8.1.21.v20160908

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```
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//
```

```
package org.eclipse.jetty.http;
```

```
import org.eclipse.jetty.io Buffers;  
import org.eclipse.jetty.io BuffersFactory;  
import org.eclipse.jetty.util.component.AbstractLifeCycle;
```

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

```
/** Abstract Buffer pool.
```

```
* simple unbounded pool of buffers for header, request and response sizes.
```

```
*
```

```
*/
```

```
public class HttpBuffersImpl extends AbstractLifeCycle implements HttpBuffers
```

```
{
```

```
    private int _requestBufferSize=16*1024;
```

```
    private int _requestHeaderSize=6*1024;
```

```
    private int _responseBufferSize=32*1024;
```

```
    private int _responseHeaderSize=6*1024;
```

```
    private int _maxBuffers=1024;
```

```
    private Buffers.Type _requestBufferType=Buffers.Type.BYTE_ARRAY;
```

```
    private Buffers.Type _requestHeaderType=Buffers.Type.BYTE_ARRAY;
```

```
    private Buffers.Type _responseBufferType=Buffers.Type.BYTE_ARRAY;
```

```
    private Buffers.Type _responseHeaderType=Buffers.Type.BYTE_ARRAY;
```

```
    private Buffers _requestBuffers;
```

```
    private Buffers _responseBuffers;
```

```
    public HttpBuffersImpl()
```

```

{
    super();
}

/**
 * @return the requestBufferSize
 */
public int getRequestBufferSize()
{
    return _requestBufferSize;
}

/**
 * @param requestBufferSize the requestBufferSize to set
 */
public void setRequestBufferSize(int requestBufferSize)
{
    _requestBufferSize = requestBufferSize;
}

/**
 * @return the requestHeaderSize
 */
public int getRequestHeaderSize()
{
    return _requestHeaderSize;
}

/**
 * @param requestHeaderSize the requestHeaderSize to set
 */
public void setRequestHeaderSize(int requestHeaderSize)
{
    _requestHeaderSize = requestHeaderSize;
}

/**
 * @return the responseBufferSize
 */
public int getResponseBufferSize()
{
    return _responseBufferSize;
}

/**
 * @param responseBufferSize the responseBufferSize to set
 */
public void setResponseBufferSize(int responseBufferSize)

```

```

{
    _responseBufferSize = responseBufferSize;
}

/**
 * @return the responseHeaderSize
 */
public int getResponseHeaderSize()
{
    return _responseHeaderSize;
}

/**
 * @param responseHeaderSize the responseHeaderSize to set
 */
public void setResponseHeaderSize(int responseHeaderSize)
{
    _responseHeaderSize = responseHeaderSize;
}

/**
 * @return the requestBufferType
 */
public Buffers.Type getRequestBufferType()
{
    return _requestBufferType;
}

/**
 * @param requestBufferType the requestBufferType to set
 */
public void setRequestBufferType(Buffers.Type requestBufferType)
{
    _requestBufferType = requestBufferType;
}

/**
 * @return the requestHeaderType
 */
public Buffers.Type getRequestHeaderType()
{
    return _requestHeaderType;
}

/**
 * @param requestHeaderType the requestHeaderType to set
 */
public void setRequestHeaderType(Buffers.Type requestHeaderType)

```

```

{
    _requestHeaderType = requestHeaderType;
}

/**
 * @return the responseBufferType
 */
public Buffers.Type getResponseBufferType()
{
    return _responseBufferType;
}

/**
 * @param responseBufferType the responseBufferType to set
 */
public void setResponseBufferType(Buffers.Type responseBufferType)
{
    _responseBufferType = responseBufferType;
}

/**
 * @return the responseHeaderType
 */
public Buffers.Type getResponseHeaderType()
{
    return _responseHeaderType;
}

/**
 * @param responseHeaderType the responseHeaderType to set
 */
public void setResponseHeaderType(Buffers.Type responseHeaderType)
{
    _responseHeaderType = responseHeaderType;
}

/**
 * @param requestBuffers the requestBuffers to set
 */
public void setRequestBuffers(Buffers requestBuffers)
{
    _requestBuffers = requestBuffers;
}

/**
 * @param responseBuffers the responseBuffers to set
 */
public void setResponseBuffers(Buffers responseBuffers)

```

```

    {
        _responseBuffers = responseBuffers;
    }

    @Override
    protected void doStart()
        throws Exception
    {
        _requestBuffers=BuffersFactory.newBuffers(_requestHeaderType,_requestHeaderSize,_requestBufferType,_request
        BufferSize,_requestBufferType, getMaxBuffers());
        _responseBuffers=BuffersFactory.newBuffers(_responseHeaderType,_responseHeaderSize,_responseBufferType,_r
        esponseBufferSize,_responseBufferType, getMaxBuffers());
        super.doStart();
    }

    @Override
    protected void doStop()
        throws Exception
    {
        _requestBuffers=null;
        _responseBuffers=null;
    }

    public Buffers getRequestBuffers()
    {
        return _requestBuffers;
    }

    public Buffers getResponseBuffers()
    {
        return _responseBuffers;
    }

    public void setMaxBuffers(int maxBuffers)
    {
        _maxBuffers = maxBuffers;
    }

    public int getMaxBuffers()
    {
        return _maxBuffers;
    }

    public String toString()
    {
        return _requestBuffers+"/"+_responseBuffers;
    }

```


}

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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[] toArray()
{
    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 + 1);
    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.toHex(b,buf);
        }
        buf.append("{}");
    }
    int count = 0;
    for (int i = getIndex(); i < putIndex(); i++)
    {
        byte b = peek(i);
        TypeUtil.toHex(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;
}
}
}

```

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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(Headers.VARY,Headers.ACCEPT_ENCODING);
    // Should we vary this response according to accept-encoding?
    String accept=request.getHeader(Headers.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(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(mdIm.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(HttpServletRequestResponse 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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1.43 jetty-servlet 8.1.21.v20160908

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1.48 jetty-xml 8.1.21.v20160908

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1.54 org.objectweb.asm 3.1.0.v200803061910

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1.55 reflections 0.9.8

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1.56 scala-library 2.9.1

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<http://scala-lang.org/>

```
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```

```
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```

```
* @author Martin Odersky
```

```
*/
```

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1.57 servlet-api 3.0.1 :3.0

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1.58 Simple Logging Facade for Java (SLF4J)

1.7.2

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1.65 spring-context 3.2.18.RELEASE

1.66 spring-context 3.2.1

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1.67 spring-context-support 3.2.18

1.68 spring-context-support 3.2.1.RELEASE

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