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## 1.39 httpd-2.2.15 2.2.15

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For the server\util\_md5.c component:

```

/*****

```

```

* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications

```



```

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```
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=====
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)

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## 1.43 jetty-http 8.2.0.v20160908

## 1.44 jetty-io 8.2.0.v20160908

## 1.45 jetty-server 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(HttpHeaders.RANGE);
    if (!hasDefinedRange(reqRanges))
        reqRanges = null;
}

String pathInContext=URIUtil.addPaths(servletPath,pathInfo);
boolean endsWithSlash=(pathInfo==null?request.getServletPath():pathInfo).endsWith(URIUtil.SLASH);

// Can we gzip this request?
String pathInContextGz=null;
boolean gzip=false;
if (!included.booleanValue() && _gzip && reqRanges==null && !endsWithSlash )
{
    // Tell caches that response may vary by accept-encoding
    response.setHeader(HttpHeaders.VARY,HttpHeaders.ACCEPT_ENCODING);
    // Should we vary this response according to accept-encoding?
    String accept=request.getHeader(HttpHeaders.ACCEPT_ENCODING);
    if (accept!=null && accept.indexOf("gzip")>=0)
        gzip=true;
}

// Find the resource and content
Resource resource=null;
HttpContent content=null;

try
{
    // Try gzipped content first
    if (gzip)

```

```

{
    pathInContextGz=pathInContext+".gz";

    if (_cache==null)
    {
        resource=getResource(pathInContextGz);
    }
    else
    {
        content=_cache.lookup(pathInContextGz);
        resource=(content==null)?null:content.getResource();
    }

    if (resource==null || !resource.exists() || resource.isDirectory())
    {
        gzip=false;
        pathInContextGz=null;
    }
}

// find resource
if (!gzip)
{
    if (_cache==null)
        resource=getResource(pathInContext);
    else
    {
        content=_cache.lookup(pathInContext);
        resource=content==null?null:content.getResource();
    }
}

if (LOG.isDebugEnabled())
    LOG.debug("uri="+request.getRequestURI()+" resource="+resource+(content!=null?" content":""));

// Handle resource
if (resource==null || !resource.exists())
{
    if (included)
        throw new FileNotFoundException("!" + pathInContext);
    response.sendError(HttpServletResponse.SC_NOT_FOUND);
}
else if (!resource.isDirectory())
{
    if (endsWithSlash && _contextHandler.isAliases() && pathInContext.length()>1)
    {
        String q=request.getQueryString();
        pathInContext=pathInContext.substring(0,pathInContext.length()-1);
    }
}

```

```

        if (q!=null&&q.length()!=0)
            pathInContext+="?" +q;
response.sendRedirect(response.encodeRedirectURL(URIUtil.addPaths(_servletContext.getContextPath(),pathInContext)));
    }
    else
    {
        // ensure we have content
        if (content==null)
            content=new
HttpContent.ResourceAsHttpContent(resource,_mimeTypes.getMimeTypeByExtension(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.getMimeTypeByExtension(resource.toString()));
    if (included.booleanValue() || passConditionalHeaders(request,response, resource,content))
        sendDirectory(request,response,resource,pathInContext);
}
}
}
catch(IllegalArgumentException e)
{
    LOG.warn(Log.EXCEPTION,e);
    if(!response.isCommitted())

```



```

        response.sendError(500, e.getMessage());
    }
    finally
    {
        if (content!=null)
            content.release();
        else if (resource!=null)
            resource.release();
    }
}

/* ----- */
private boolean hasDefinedRange(Enumeration<String> reqRanges)
{
    return (reqRanges!=null && reqRanges.hasMoreElements());
}

/* ----- */
@Override
protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException
{
    doGet(request,response);
}

/* ----- */
/* (non-Javadoc)
 * @see javax.servlet.http.HttpServlet#doTrace(javax.servlet.http.HttpServletRequest,
javax.servlet.http.HttpServletResponse)
 */
@Override
protected void doTrace(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException
{
    resp.sendError(HttpServletResponse.SC_METHOD_NOT_ALLOWED);
}

/* ----- */
@Override
protected void doOptions(HttpServletRequest req, HttpServletResponse resp)
throws ServletException, IOException
{
    resp.setHeader("Allow", "GET,HEAD,POST,OPTIONS");
}

/* ----- */
/**
 * Finds a matching welcome file for the supplied {@link Resource}. This will be the first entry in the list of

```

```

    * configured { @link #_welcomes welcome files } that existing within the directory referenced by the
<code>Resource</code>.
    * If the resource is not a directory, or no matching file is found, then it may look for a valid servlet mapping.
    * If there is none, then <code>null</code> is returned.
    * The list of welcome files is read from the { @link ContextHandler } for this servlet, or
    * <code>"index.jsp" , "index.html"</code> if that is <code>null</code>.
    * @param resource
    * @return The path of the matching welcome file in context or null.
    * @throws IOException
    * @throws MalformedURLException
    */
private String getWelcomeFile(String pathInContext) throws MalformedURLException, IOException
{
    if (_welcomes==null)
        return null;

    String welcome_servlet=null;
    for (int i=0;i<_welcomes.length;i++)
    {
        String welcome_in_context=URIUtil.addPaths(pathInContext,_welcomes[i]);
        Resource welcome=getResource(welcome_in_context);
        if (welcome!=null && welcome.exists())
            return _welcomes[i];

        if ((_welcomeServlets || _welcomeExactServlets) && welcome_servlet==null)
        {
            Map.Entry entry=_servletHandler.getHolderEntry(welcome_in_context);
            if (entry!=null && entry.getValue()!=_defaultHolder &&
                (_welcomeServlets || (_welcomeExactServlets && entry.getKey().equals(welcome_in_context))))
                welcome_servlet=welcome_in_context;
        }
    }
    return welcome_servlet;
}

/* ----- */
/* Check modification date headers.
*/

protected boolean passConditionalHeaders(HttpServletRequest request,HttpServletResponse response, Resource
resource, HttpContent content)
throws IOException
{
    try
    {
        if (!request.getMethod().equals(HttpMethods.HEAD) )
        {
            String ifms=request.getHeader(HttpHeaders.IF_MODIFIED_SINCE);

```

```

if (ifms!=null)
{
    //Get jetty's Response impl
    Response r = Response.getResponse(response);

    if (content!=null)
    {
        Buffer mdlm=content.getLastModified();
        if (mdlm!=null)
        {
            if (ifms.equals(mdlm.toString()))
            {
                r.reset(true);
                r.setStatus(HttpServletResponse.SC_NOT_MODIFIED);
                r.flushBuffer();
                return false;
            }
        }
    }

    long ifmsl=request.getDateHeader(HttpHeaders.IF_MODIFIED_SINCE);
    if (ifmsl!=-1)
    {
        if (resource.lastModified()/1000 <= ifmsl/1000)
        {
            r.reset(true);
            r.setStatus(HttpServletResponse.SC_NOT_MODIFIED);
            r.flushBuffer();
            return false;
        }
    }
}

// Parse the if[un]modified dates and compare to resource
long date=request.getDateHeader(HttpHeaders.IF_UNMODIFIED_SINCE);

if (date!=-1)
{
    if (resource.lastModified()/1000 > date/1000)
    {
        response.sendError(HttpServletResponse.SC_PRECONDITION_FAILED);
        return false;
    }
}

}
}
catch(IllegalArgumentException iae)

```

```

    {
        if(!response.isCommitted())
            response.sendError(400, iae.getMessage());
        throw iae;
    }
    return true;
}

/* ----- */
protected void sendDirectory(HttpServletRequest request,
    HttpServletResponse response,
    Resource resource,
    String pathInContext)
throws IOException
{
    if (!_dirAllowed)
    {
        response.sendError(HttpServletResponse.SC_FORBIDDEN);
        return;
    }

    byte[] data=null;
    String base = URIUtil.addPaths(request.getRequestURI(),URIUtil.SLASH);

    //If the DefaultServlet has a resource base set, use it
    if (_resourceBase != null)
    {
        // handle ResourceCollection
        if (_resourceBase instanceof ResourceCollection)
            resource=_resourceBase.addPath(pathInContext);
    }
    //Otherwise, try using the resource base of its enclosing context handler
    else if (_contextHandler.getBaseResource() instanceof ResourceCollection)
        resource=_contextHandler.getBaseResource().addPath(pathInContext);

    String dir = resource.getListHTML(base,pathInContext.length(>1);
    if (dir==null)
    {
        response.sendError(HttpServletResponse.SC_FORBIDDEN,
            "No directory");
        return;
    }

    data=dir.getBytes("UTF-8");
    response.setContentType("text/html; charset=UTF-8");
    response.setContentLength(data.length);
    response.getOutputStream().write(data);
}

```

```

}

/* ----- */
protected void sendData(HttpServletRequest request,
    HttpServletResponse response,
    boolean include,
    Resource resource,
    HttpContent content,
    Enumeration reqRanges)
throws IOException
{
    boolean direct;
    long content_length;
    if (content==null)
    {
        direct=false;
        content_length=resource.length();
    }
    else
    {
        Connector connector = AbstractHttpConnection.getCurrentConnection().getConnector();
        direct=connector instanceof NIOConnector && ((NIOConnector)connector).getUseDirectBuffers() &&
!(connector instanceof SslConnector);
        content_length=content.getContentLength();
    }

    // Get the output stream (or writer)
    OutputStream out =null;
    boolean written;
    try
    {
        out = response.getOutputStream();

        // has a filter already written to the response?
        written = out instanceof HttpOutput
            ? ((HttpOutput)out).isWritten()
            : AbstractHttpConnection.getCurrentConnection().getGenerator().isWritten();
    }
    catch(IllegalStateException e)
    {
        out = new WriterOutputStream(response.getWriter());
        written=true; // there may be data in writer buffer, so assume written
    }

    if ( reqRanges == null || !reqRanges.hasMoreElements() || content_length<0)
    {
        // if there were no ranges, send entire entity

```

```

if (include)
{
    resource.writeTo(out,0,content_length);
}
else
{
    // See if a direct methods can be used?
    if (content!=null && !written && out instanceof HttpOutput)
    {
        if (response instanceof Response)
        {
            writeOptionHeaders(((Response)response).getHttpFields());
            ((AbstractHttpConnection.Output)out).sendContent(content);
        }
        else
        {
            Buffer buffer = direct?content.getDirectBuffer():content.getIndirectBuffer();
            if (buffer!=null)
            {
                writeHeaders(response,content,content_length);
                ((AbstractHttpConnection.Output)out).sendContent(buffer);
            }
            else
            {
                writeHeaders(response,content,content_length);
                resource.writeTo(out,0,content_length);
            }
        }
    }
    else
    {
        // Write headers normally
        writeHeaders(response,content,written?-1:content_length);

        // Write content normally
        Buffer buffer = (content==null)?null:content.getIndirectBuffer();
        if (buffer!=null)
            buffer.writeTo(out);
        else
            resource.writeTo(out,0,content_length);
    }
}
else
{
    // Parse the satisfiable ranges
    List ranges =InclusiveByteRange.satisfiableRanges(reqRanges,content_length);

```

```

// if there are no satisfiable ranges, send 416 response
if (ranges==null || ranges.size()==0)
{
    writeHeaders(response, content, content_length);
    response.setStatus(HttpServletResponse.SC_REQUESTED_RANGE_NOT_SATISFIABLE);
    response.setHeader(HttpHeaders.CONTENT_RANGE,
        InclusiveByteRange.to416HeaderRangeString(content_length));
    resource.writeTo(out,0,content_length);
    return;
}

// if there is only a single valid range (must be satisfiable
// since were here now), send that range with a 216 response
if ( ranges.size()== 1)
{
    InclusiveByteRange singleSatisfiableRange =
        (InclusiveByteRange)ranges.get(0);
    long singleLength = singleSatisfiableRange.getSize(content_length);
    writeHeaders(response,content,singleLength
        );
    response.setStatus(HttpServletResponse.SC_PARTIAL_CONTENT);
    response.setHeader(HttpHeaders.CONTENT_RANGE,
        singleSatisfiableRange.toHeaderRangeString(content_length));
    resource.writeTo(out,singleSatisfiableRange.getFirst(content_length),singleLength);
    return;
}

// multiple non-overlapping valid ranges cause a multipart
// 216 response which does not require an overall
// content-length header
//
writeHeaders(response,content,-1);
String mimetype=content.getContentType().toString();
MultiPartOutputStream multi = new MultiPartOutputStream(out);
response.setStatus(HttpServletResponse.SC_PARTIAL_CONTENT);

// If the request has a "Request-Range" header then we need to
// send an old style multipart/x-byteranges Content-Type. This
// keeps Netscape and acrobat happy. This is what Apache does.
String ctp;
if (request.getHeader(HttpHeaders.REQUEST_RANGE)!=null)
    ctp = "multipart/x-byteranges; boundary=";
else
    ctp = "multipart/byteranges; boundary=";
response.setContentType(ctp+multi.getBoundary());

InputStream in=resource.getInputStream();
long pos=0;

```

```

// calculate the content-length
int length=0;
String[] header = new String[ranges.size()];
for (int i=0;i<ranges.size();i++)
{
    InclusiveByteRange ibr = (InclusiveByteRange) ranges.get(i);
    header[i]=ibr.toHeaderRangeString(content_length);
    length+=
        ((i>0)?2:0)+
        2+multi.getBoundary().length()+2+
        HttpHeaders.CONTENT_TYPE.length()+2+mimetype.length()+2+
        HttpHeaders.CONTENT_RANGE.length()+2+header[i].length()+2+
        2+
        (ibr.getLast(content_length)-ibr.getFirst(content_length))+1;
}
length+=2+2+multi.getBoundary().length()+2+2;
response.setContentLength(length);

for (int i=0;i<ranges.size();i++)
{
    InclusiveByteRange ibr = (InclusiveByteRange) ranges.get(i);
    multi.startPart(mimetype,new String[]{HttpHeaders.CONTENT_RANGE+" "+header[i]});

    long start=ibr.getFirst(content_length);
    long size=ibr.getSize(content_length);
    if (in!=null)
    {
        // Handle non cached resource
        if (start<pos)
        {
            in.close();
            in=resource.getInputStream();
            pos=0;
        }
        if (pos<start)
        {
            in.skip(start-pos);
            pos=start;
        }
        IO.copy(in,multi,size);
        pos+=size;
    }
    else
        // Handle cached resource
        (resource).writeTo(multi,start,size);
}
if (in!=null)

```



```

        in.close();
        multi.close();
    }
    return;
}

/* ----- */
protected void writeHeaders(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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## 1.47 jetty-servlets 8.1.7 :v20120910

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## 1.48 jetty-util 8.2.0.v20160908

## 1.49 Joda Time 2.1

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```
/* NSC -- new Scala compiler
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 */
```



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### 1.7.2

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## 1.67 spring-context 3.2.18.RELEASE

## 1.68 spring-context-support 3.2.18

## 1.69 spring-context-support 3.2.1.RELEASE

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## 1.71 spring-core 3.2.1

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## 1.73 spring-modules-jakarta-commons 0.8

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