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Contents

1.1 abego TreeLayout Core 1.0.1

1.1.1 Available under license

1.2 amqp-client 3.4.2

1.2.1 Available under license

1.3 aopalliance 1.0

1.3.1 Available under license

1.4 Apache Commons Beanutils 1.8.2

1.4.1 Available under license

1.5 Apache Commons Lib Apache 2.0

1.5.1 Available under license

1.6 apache-log4j 1.2.15

1.6.1 Available under license

1.7 cglib-nodep 2.2.2

1.7.1 Available under license

1.8 Commons BeanUtils 1.8.2

1.8.1 Available under license

1.9 Commons Lang 2.4

1.9.1 Available under license

1.10 Commons Logging 1.1.1

1.10.1 Available under license

1.11 commons-codec 1.3

1.11.1 Available under license

1.12 commons-codec 1.6

1.12.1 Available under license

1.13 commons-codec-1.6 1.6

1.13.1 Available under license

- 1.14 commons-collections 3.2.1**
 - 1.14.1 Available under license
- 1.15 commons-collections 3.2.1**
 - 1.15.1 Available under license
- 1.16 commons-configuration 1.7**
 - 1.16.1 Available under license
- 1.17 commons-digester 1.8.1**
 - 1.17.1 Available under license
- 1.18 commons-io 2.1**
 - 1.18.1 Available under license
- 1.19 commons-lang 2.6**
 - 1.19.1 Available under license
- 1.20 commons-lang3 3.1**
 - 1.20.1 Available under license
- 1.21 commons-logging 1.1.3**
 - 1.21.1 Available under license
- 1.22 CONCISE 2.2**
 - 1.22.1 Available under license
- 1.23 dom4j 1.6.1**
 - 1.23.1 Available under license
- 1.24 dom4j 1.6.1**
 - 1.24.1 Available under license
- 1.25 EasyMock class extension 3.1**
 - 1.25.1 Available under license
- 1.26 ehcache-core 2.6.2**
 - 1.26.1 Available under license
- 1.27 FindBugs-Annotations 2.0.1**
 - 1.27.1 Available under license
- 1.28 Guava 13.0.1**
 - 1.28.1 Available under license
- 1.29 guava 13.0.1**
 - 1.29.1 Available under license
- 1.30 hamcrest-core 1.3**
 - 1.30.1 Available under license
- 1.31 httpclient 4.2.3**
 - 1.31.1 Available under license
- 1.32 httpclient-4.2.3.jar 4.2.3**
 - 1.32.1 Available under license
- 1.33 HttpCore 4.3**

- 1.33.1 Available under license
- 1.34 httpcore-4.3.jar 4.3**
 - 1.34.1 Available under license
- 1.35 i18nlog 1.0.9**
 - 1.35.1 Available under license
- 1.36 icu4j 49.1**
 - 1.36.1 Available under license
- 1.37 jackson-annotations 2.1.4**
 - 1.37.1 Available under license
- 1.38 jackson-core 2.1.4**
 - 1.38.1 Available under license
- 1.39 jackson-databind 2.1.4**
 - 1.39.1 Available under license
- 1.40 jakarta-regexp-1.4.jar 1.4**
 - 1.40.1 Available under license
- 1.41 javaparser 1.0.8**
 - 1.41.1 Available under license
- 1.42 Javassist 3.12.1.GA**
 - 1.42.1 Available under license
- 1.43 Javassist 3.12.1.GA**
 - 1.43.1 Available under license
- 1.44 Javassist 3.12.1.GA**
 - 1.44.1 Available under license
- 1.45 javax.annotation 1.1.0 v201108011116**
 - 1.45.1 Available under license
- 1.46 javax.servlet 3.0.0.v201112011016**
 - 1.46.1 Available under license
- 1.47 javax.servlet 3.0.0.v201112011016**
 - 1.47.1 Available under license
- 1.48 javax.servlet 3.0.0.v201112011016**
 - 1.48.1 Available under license
- 1.49 javax.transaction 1.1.1v201105210645**
 - 1.49.1 Available under license
- 1.50 jaxb2-basics 0.6.4**
 - 1.50.1 Available under license
- 1.51 jaxb2-basics-runtime 0.6.4**
 - 1.51.1 Available under license
- 1.52 jaxb2-basics-tools 0.6.4**
 - 1.52.1 Available under license

- 1.53 JBOSS DNA 0.7**
 - 1.53.1 Available under license
- 1.54 jdom 2.0.2**
 - 1.54.1 Notifications
 - 1.54.2 Available under license
- 1.55 Jetty :: Continuation 8.1.15.v20140411**
 - 1.55.1 Available under license
- 1.56 Jetty :: Http Utility 8.1.15.v20140411**
 - 1.56.1 Available under license
- 1.57 Jetty :: IO Utility 8.1.15.v20140411**
 - 1.57.1 Available under license
- 1.58 Jetty :: Security 8.1.15.v20140411**
 - 1.58.1 Available under license
- 1.59 Jetty :: Server Core 8.1.15.v20140411**
 - 1.59.1 Available under license
- 1.60 Jetty :: Utilities 8.1.15.v20140411**
 - 1.60.1 Available under license
- 1.61 jetty continuation 8.1.7.v20120910**
 - 1.61.1 Available under license
- 1.62 jetty util 8.1.15.v20140411**
 - 1.62.1 Available under license
- 1.63 jetty webapp 8.1.15.v20140411**
 - 1.63.1 Available under license
- 1.64 jetty-annotations 8.1.7 :v20120910**
 - 1.64.1 Available under license
- 1.65 jetty-annotations 8.1.15.v20140411**
 - 1.65.1 Available under license
- 1.66 jetty-client 8.1.7 :v20120910**
 - 1.66.1 Available under license
- 1.67 jetty-client 8.1.15.v20140411**
 - 1.67.1 Available under license
- 1.68 jetty-continuation 8.1.7.v20120910**
 - 1.68.1 Available under license
- 1.69 jetty-eventsource-servlet 1.0.0**
 - 1.69.1 Available under license
- 1.70 jetty-jndi 8.1.15.v20140411**
 - 1.70.1 Available under license
- 1.71 jetty-plus 8.1.15.v20140411**
 - 1.71.1 Available under license

- 1.72 jetty-security 8.1.15.v20140411**
 - 1.72.1 Available under license
- 1.73 jetty-server 8.1.7.v20120910**
 - 1.73.1 Available under license
- 1.74 jetty-server 8.1.7 :v20120910**
 - 1.74.1 Available under license
- 1.75 jetty-servlet 8.1.7.v20120910**
 - 1.75.1 Available under license
- 1.76 jetty-servlet 8.1.15.v20140411**
 - 1.76.1 Available under license
- 1.77 jetty-servlets 8.1.15.v20140411**
 - 1.77.1 Available under license
- 1.78 jetty-servlets 8.1.7 :v20120910**
 - 1.78.1 Available under license
- 1.79 jetty-util 8.1.15.v20140411**
 - 1.79.1 Available under license
- 1.80 jetty-webapp 8.1.15.v20140411**
 - 1.80.1 Available under license
- 1.81 jetty-webapp 8.1.7 :v20120910**
 - 1.81.1 Available under license
- 1.82 jetty-xml 8.1.15.v20140411**
 - 1.82.1 Available under license
- 1.83 Joda Time 2.1**
 - 1.83.1 Available under license
- 1.84 joda-time 2.1**
 - 1.84.1 Available under license
- 1.85 junit 4.11**
 - 1.85.1 Available under license
- 1.86 log4j 1.2.16**
 - 1.86.1 Available under license
- 1.87 Log4j 1.2.16**
 - 1.87.1 Available under license
- 1.88 log4j 1.2.17**
 - 1.88.1 Available under license
- 1.89 lucene-analyzers-common 4.5.0**
 - 1.89.1 Available under license
- 1.90 lucene-analyzers-icu 4.5.0**
 - 1.90.1 Available under license
- 1.91 lucene-core 4.5.0**

- 1.91.1 Available under license
- 1.92 lucene-grouping 4.5.0**
 - 1.92.1 Available under license
- 1.93 lucene-queries 4.5.0**
 - 1.93.1 Available under license
- 1.94 lucene-queryparser 4.5.0**
 - 1.94.1 Available under license
- 1.95 lucene-sandbox 4.5.0**
 - 1.95.1 Available under license
- 1.96 MXP1: Xml Pull Parser 3rd Edition (XPP3) 1.1.4c**
 - 1.96.1 Notifications
 - 1.96.2 Available under license
- 1.97 netty 3.6.3**
 - 1.97.1 Available under license
- 1.98 ognl 2.6.9**
 - 1.98.1 Available under license
- 1.99 org.objectweb.asm 3.1.0 v200803061910**
 - 1.99.1 Available under license
- 1.100 org.objectweb.asm - Various EPL bits 3.1.0 v200803061910**
 - 1.100.1 Available under license
- 1.101 reflections 0.9.8**
 - 1.101.1 Available under license
- 1.102 serializer 2.7.1**
 - 1.102.1 Available under license
- 1.103 serializer 2.7.1**
 - 1.103.1 Available under license
- 1.104 Simple Logging Facade for Java (SLF4J) 1.7.2**
 - 1.104.1 Available under license
- 1.105 slf4j 1.7.5**
 - 1.105.1 Available under license
- 1.106 slf4j-api 1.7.5**
 - 1.106.1 Available under license
- 1.107 slf4j-api-1.7.5.jar 1.7.5**
- 1.108 slf4j/ASLv2 1.7.5**
 - 1.108.1 Available under license
- 1.109 snappy 0.3**
 - 1.109.1 Available under license
- 1.110 Spring Beans 3.2.3.RELEASE**
 - 1.110.1 Available under license

- 1.111 Spring Context 3.2.3.RELEASE**
 - 1.111.1 Available under license
- 1.112 Spring Context Support 4.0.7.RELEASE**
 - 1.112.1 Available under license
- 1.113 Spring Core 3.2.3.RELEASE**
 - 1.113.1 Available under license
- 1.114 Spring Framework 2.0.7**
 - 1.114.1 Available under license
- 1.115 Spring Web MVC 3.2.3.RELEASE**
 - 1.115.1 Available under license
- 1.116 spring-amqp 1.4.1**
 - 1.116.1 Available under license
- 1.117 spring-aop 3.2.1.RELEASE**
 - 1.117.1 Available under license
- 1.118 Spring-aop 4.0.7.RELEASE**
 - 1.118.1 Available under license
- 1.119 spring-asm 3.0.3.RELEASE**
 - 1.119.1 Available under license
- 1.120 spring-beans 4.0.7.RELEASE**
 - 1.120.1 Available under license
- 1.121 spring-beans 3.2.1.RELEASE**
 - 1.121.1 Available under license
- 1.122 spring-context 3.2.1**
 - 1.122.1 Available under license
- 1.123 spring-context 4.0.7.RELEASE**
 - 1.123.1 Available under license
- 1.124 spring-context 3.2.1.RELEASE**
 - 1.124.1 Available under license
- 1.125 spring-context-support 3.2.1.RELEASE**
 - 1.125.1 Available under license
- 1.126 spring-core 4.0.7.RELEASE**
 - 1.126.1 Available under license
- 1.127 spring-core 3.2.1.RELEASE**
 - 1.127.1 Available under license
- 1.128 spring-expression 3.2.1.RELEASE**
 - 1.128.1 Available under license
- 1.129 spring-expression 4.0.7.RELEASE**
 - 1.129.1 Available under license
- 1.130 spring-messaging 4.1.3.RELEASE**

- 1.130.1 Available under license
- 1.131 spring-oxm 4.0.7.RELEASE**
 - 1.131.1 Available under license
- 1.132 spring-oxm 3.2.1.RELEASE**
 - 1.132.1 Available under license
- 1.133 spring-rabbit 1.4.2.RELEASE**
 - 1.133.1 Available under license
- 1.134 spring-retry 1.1.2.RELEASE**
 - 1.134.1 Available under license
- 1.135 spring-tx 4.1.3.RELEASE**
- 1.136 spring-web 4.0.7**
 - 1.136.1 Available under license
- 1.137 spring-web 3.2.1.RELEASE**
 - 1.137.1 Available under license
- 1.138 spring-webmvc 4.0.7.RELEASE**
- 1.139 Treelayout Algorithm (Abego) 1.0.1**
 - 1.139.1 Available under license
- 1.140 unitils 3.3**
 - 1.140.1 Available under license
- 1.141 unitils-core 3.3**
 - 1.141.1 Available under license
- 1.142 Xalan 2.7.1**
 - 1.142.1 Available under license
- 1.143 Xalan Java Serializer 2.7.1**
 - 1.143.1 Available under license
- 1.144 xercesImpl 2.9.1**
 - 1.144.1 Available under license
- 1.145 XML Commons External Components XML APIs 1.3.04**
 - 1.145.1 Available under license
- 1.146 xml-apis 1.3.04**
 - 1.146.1 Available under license
- 1.147 xml-apis 1.3.04**
 - 1.147.1 Available under license
- 1.148 XPP - XML Pull Parser 1.1.3.1**
 - 1.148.1 Notifications
 - 1.148.2 Available under license
- 1.149 XPP - XML Pull Parser_LGPLv2.1 1.1.3.1**
 - 1.149.1 Available under license
- 1.150 xstream 1.4.4**

1.150.1 Available under license

1.151 XStream Core 1.4.4

1.151.1 Available under license

1.152 XStream Library 1.3.1

1.152.1 Available under license

1.153 xstream-1.4.4 1.4.4

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1.34 httpcore-4.3.jar 4.3

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1.38 jackson-core 2.1.4

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1.41 javaparser 1.0.8

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1.50 jaxb2-basics 0.6.4

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1.51 jaxb2-basics-runtime 0.6.4

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1.68 jetty-continuation 8.1.7.v20120910

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```
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// =====
//
```

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

```
import javax.servlet.Filter;
import javax.servlet.FilterChain;
import javax.servlet.Servlet;
import javax.servlet.ServletException;
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:

*

* a call to { @link #resume() }.


```

* <li>a call to {@link #complete()}.</li>
* <li>the timeout expires.</li>
* </ul>
* <p>
* Typically suspend with no arguments is uses when a call to {@link #resume()}
* is expected. If a call to {@link #complete()} is expected, then the
* {@link #suspend(ServletResponse)} method should be used instead of this method.
* </p>
*
* @exception IllegalStateException
*         If the request cannot be suspended
*/
void suspend();

/* ----- */
/**
 * Suspend the processing of the request and associated
 * {@link ServletResponse}.
 *
 * <p>
 * After this method has been called, the lifecycle of the request will be
 * extended beyond the return to the container from the
 * {@link Servlet#service(ServletRequest, ServletResponse)} method and
 * {@link Filter#doFilter(ServletRequest, ServletResponse, FilterChain)}
 * calls. When a suspended request is returned to the container after
 * a dispatch, then the container will not commit the associated response
 * (unless an exception other than {@link ContinuationThrowable} is thrown).
 * </p>
 * <p>
 * When the thread calling the filter chain and/or servlet has returned to
 * the container with a suspended request, the thread is freed for other
 * tasks and the request is held until either:
 * <ul>
 * <li>a call to {@link #resume()}.</li>
 * <li>a call to {@link #complete()}.</li>
 * <li>the timeout expires.</li>
 * </ul>
 * <p>
 * Typically suspend with a response argument is uses when a call to {@link #complete()}
 * is expected. If a call to {@link #resume()} is expected, then the
 * {@link #suspend()} method should be used instead of this method.
 * </p>
 * <p>
 * Filters that may wrap the response object should check {@link #isResponseWrapped()}
 * to decide if they should destroy/finish the wrapper. If {@link #isResponseWrapped()}
 * returns true, then the wrapped request has been passed to the asynchronous
 * handler and the wrapper should not be destroyed/finished until after a call to

```

```

* {@link #complete()} (potentially using a {@link ContinuationListener#onComplete(Continuation)}
* listener).
*
* @param response The response to return via a call to {@link #getServletResponse()}
* @exception IllegalStateException
*         If the request cannot be suspended
*/
void suspend(ServletResponse response);

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

/* ----- */
/**
* Complete a suspended request.
*
* <p>
* This method can be called by any thread that has been passed a reference
* to a suspended request. When a request is completed, the associated
* response object committed and flushed. The request is not redispached.
* </p>

```

```

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

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

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

```

```

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

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

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

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

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

```

```

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

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

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

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

```

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1.69 jetty-eventsource-servlet 1.0.0

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19 May, 2009

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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.getMimeByExtension(resource.toString()));
    if (included.booleanValue() || passConditionalHeaders(request,response, resource,content))
        sendDirectory(request,response,resource,pathInContext);
}
}
}
catch(IllegalArgumentException e)
{
    LOG.warn(Log.EXCEPTION,e);
    if(!response.isCommitted())
        response.sendError(500, e.getMessage());
}
finally
{

```

```

        if (content!=null)
            content.release();
        else if (resource!=null)
            resource.release();
    }

}

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

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

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

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

/* ----- */
/**
 * Finds a matching welcome file for the supplied { @link Resource}. This will be the first entry in the list of
 * configured { @link #_welcomes welcome files} that existing within the directory referenced by the
<code>Resource</code>.
 * If the resource is not a directory, or no matching file is found, then it may look for a valid servlet mapping.
 * If there is none, then <code>null</code> is returned.

```

```

* The list of welcome files is read from the {@link ContextHandler} for this servlet, or
* <code>"index.jsp" , "index.html"</code> if that is <code>>null</code>.
* @param resource
* @return The path of the matching welcome file in context or null.
* @throws IOException
* @throws MalformedURLException
*/
private String getWelcomeFile(String pathInContext) throws MalformedURLException, IOException
{
    if (_welcomes==null)
        return null;

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

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

/* ----- */
/* Check modification date headers.
*/
protected boolean passConditionalHeaders(HttpServletRequest request,HttpServletResponse response, Resource
resource, HttpContent content)
throws IOException
{
    try
    {
        if (!request.getMethod().equals(HttpMethods.HEAD) )
        {
            String ifms=request.getHeader(HttpHeaders.IF_MODIFIED_SINCE);
            if (ifms!=null)
            {
                //Get jetty's Response impl
                Response r = Response.getResponse(response);

```

```

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

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

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

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

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

```

```

    }
    return true;
}

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

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

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

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

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

/* ----- */
protected void sendData(HttpServletRequest request,

```

```

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

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

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

    if ( reqRanges == null || !reqRanges.hasMoreElements() || content_length<0)
    {
        // if there were no ranges, send entire entity
        if (include)
        {
            resource.writeTo(out,0,content_length);
        }
    }
}

```



```

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

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

    // if there are no satisfiable ranges, send 416 response
    if (ranges==null || ranges.size()==0)
    {
        writeHeaders(response, content, content_length);
    }
}
}

```

```

response.setStatus(HttpServletResponse.SC_REQUESTED_RANGE_NOT_SATISFIABLE);
response.setHeader(HttpHeaders.CONTENT_RANGE,
    InclusiveByteRange.to416HeaderRangeString(content_length));
resource.writeTo(out,0,content_length);
return;
}

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

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

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

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

// calculate the content-length
int length=0;
String[] header = new String[ranges.size()];
for (int i=0;i<ranges.size();i++)

```

```

{
    InclusiveByteRange ibr = (InclusiveByteRange) ranges.get(i);
    header[i]=ibr.toHeaderRangeString(content_length);
    length+=
        ((i>0)?2:0)+
        2+multi.getBoundary().length()+2+
        HttpHeaders.CONTENT_TYPE.length()+2+mimetype.length()+2+
        HttpHeaders.CONTENT_RANGE.length()+2+header[i].length()+2+
        2+
        (ibr.getLast(content_length)-ibr.getFirst(content_length))+1;
}
length+=2+2+multi.getBoundary().length()+2+2;
response.setContentLength(length);

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

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

}
if (in!=null)
    in.close();
multi.close();
}
return;

```

```

}

/* ----- */
protected void writeHeaders(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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analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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1.105 slf4j 1.7.5

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1.108 slf4j/ASLv2 1.7.5

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1.109 snappy 0.3

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1.116 spring-amqp 1.4.1

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1.117 spring-aop 3.2.1.RELEASE

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1.124 spring-context 3.2.1.RELEASE

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1.130 spring-messaging 4.1.3.RELEASE

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1.131 spring-oxm 4.0.7.RELEASE

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1.133 spring-rabbit 1.4.2.RELEASE

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1.134 spring-retry 1.1.2.RELEASE

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1.135 spring-tx 4.1.3.RELEASE

1.136 spring-web 4.0.7

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1.137 spring-web 3.2.1.RELEASE

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1.138 spring-webmvc 4.0.7.RELEASE

1.139 Treelayout Algorithm (Abego) 1.0.1

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1.140 unitils 3.3

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1.143 Xalan Java Serializer 2.7.1

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1.144 xercesImpl 2.9.1

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XML APIs 1.3.04

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David Megginson, david@megginson.com
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore

falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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