

z2-Environment - Bug #1453

Unable to process recursive tag files

23.07.2013 10:07 - Udo Offermann

Status:	Resolved	Start date:	23.07.2013
Priority:	Normal	Due date:	05.08.2013
Assignee:	Henning Blohm	% Done:	0%
Category:	z2-base	Estimated time:	0.00 hour
Target version:	2.2		
origin:			

Description

The following tag file works in plain jetty (version 8.1.8) but not in z2:

loop.tag

```
<%@ taglib prefix="tag" tagdir="/WEB-INF/tags" %>
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
<%@ attribute name="num" type="java.lang.Integer" rtexprvalue="true" required=
"true" %>

<c:if test="${num > 0}">
  <li>${num}</li>
  <tag:loop num="${num - 1}"/>
</c:if>
```

index.jsp

```
<%@ taglib prefix="tag" tagdir="/WEB-INF/tags" %>
<html>
<head><title>Recursive Tag Files</title></head>
<body>
  <ul>
    <tag:loop num="10"/>
  </ul>
</body>
</html>
```

See also the attached war file.

Launching the webapp on z2 yields to this exception:

```
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: org.apache.jasper.JasperException: PWC6033: Error i
n Javac compilation for JSP
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]:      at org.apache.jasper.JspCompilationContext.comp
ile(JspCompilationContext.java:634)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]:      at org.apache.jasper.servlet.JspServletWrapper.
loadTagFile(JspServletWrapper.java:280)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]:      at org.apache.jasper.compiler.TagFileProcessor.
loadTagFile(TagFileProcessor.java:660)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]:      at org.apache.jasper.compiler.TagFileProcessor.
access$000(TagFileProcessor.java:91)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]:      at org.apache.jasper.compiler.TagFileProcessor$
TagFileLoaderVisitor.visit(TagFileProcessor.java:719)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]:      at org.apache.jasper.compiler.Node$CustomTag.ac
cept(Node.java:1502)
```

```
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.apache.jasper.compiler.Node$Nodes.visit (
Node.java:2297)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.apache.jasper.compiler.Node$Visitor.visit
tBody (Node.java:2347)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.apache.jasper.compiler.Node$Visitor.visit
t (Node.java:2353)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.apache.jasper.compiler.Node$Root.accept (
Node.java:499)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.apache.jasper.compiler.Node$Nodes.visit (
Node.java:2297)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.apache.jasper.compiler.TagFileProcessor.
loadTagFiles (TagFileProcessor.java:737)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.apache.jasper.compiler.Compiler.generate
Java (Compiler.java:235)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.apache.jasper.compiler.Compiler.compile (
Compiler.java:451)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.apache.jasper.JspCompilationContext.comp
ile (JspCompilationContext.java:625)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.apache.jasper.servlet.JspServletWrapper.
service (JspServletWrapper.java:374)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.apache.jasper.servlet.JspServlet.service
JspFile (JspServlet.java:492)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.apache.jasper.servlet.JspServlet.service
(JspServlet.java:378)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at javax.servlet.http.HttpServlet.service (HttpS
ervlet.java:848)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.servlet.ServletHolder.hand
le (ServletHolder.java:598)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.servlet.ServletHandler.doH
andle (ServletHandler.java:486)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.server.handler.ScopedHandl
er.handle (ScopedHandler.java:119)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.security.SecurityHandler.h
andle (SecurityHandler.java:542)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.server.session.SessionHand
ler.doHandle (SessionHandler.java:231)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.server.handler.ContextHand
ler.doHandle (ContextHandler.java:1065)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at com.zfabrik.impl.servletjsp.webapp.WebAppCon
textWrapper.access$6 (WebAppContextWrapper.java:1)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at com.zfabrik.impl.servletjsp.webapp.WebAppCon
textWrapper$1.run (WebAppContextWrapper.java:72)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at com.zfabrik.impl.work.ThreadPoolImpl$2.call (
ThreadPoolImpl.java:303)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at com.zfabrik.impl.work.ThreadPoolImpl$2.call (
ThreadPoolImpl.java:301)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at com.zfabrik.work.WorkUnit.work (WorkUnit.java
:373)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at com.zfabrik.impl.work.ThreadPoolImpl.doIt (Th
readPoolImpl.java:257)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at com.zfabrik.impl.work.ThreadPoolImpl.execute
As (ThreadPoolImpl.java:324)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at com.zfabrik.impl.work.ThreadPoolImpl.execute
As (ThreadPoolImpl.java:301)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at com.zfabrik.impl.servletjsp.webapp.WebAppCon
textWrapper.doHandle (WebAppContextWrapper.java:67)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.servlet.ServletHandler.doS
cope (ServletHandler.java:413)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.server.session.SessionHand
ler.doScope (SessionHandler.java:192)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.server.handler.ContextHand
ler.doScope (ContextHandler.java:999)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.server.handler.ScopedHandl
er.handle (ScopedHandler.java:117)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.server.Dispatcher.forward (
Dispatcher.java:271)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.server.Dispatcher.forward (
```

```

Dispatcher.java:98)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.servlet.DefaultServlet.doGet(DefaultServlet.java:557)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at javax.servlet.http.HttpServlet.service(HttpServlet.java:735)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at javax.servlet.http.HttpServlet.service(HttpServlet.java:848)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.servlet.ServletHolder.handle(ServletHolder.java:598)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.servlet.ServletHandler.doHandle(ServletHandler.java:486)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.server.handler.ScopedHandler.handle(ScopedHandler.java:119)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.security.SecurityHandler.handle(SecurityHandler.java:499)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.server.session.SessionHandler.doHandle(SessionHandler.java:231)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.server.handler.ContextHandler.doHandle(ContextHandler.java:1065)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at com.zfabrik.impl.servlet.jsp.webapp.WebAppContextWrapper.access$6(WebAppContextWrapper.java:1)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at com.zfabrik.impl.servlet.jsp.webapp.WebAppContextWrapper$1.run(WebAppContextWrapper.java:72)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at com.zfabrik.impl.work.ThreadPoolImpl$2.call(ThreadPoolImpl.java:303)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at com.zfabrik.impl.work.ThreadPoolImpl$2.call(ThreadPoolImpl.java:301)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at com.zfabrik.work.WorkUnit.work(WorkUnit.java:373)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at com.zfabrik.impl.work.ThreadPoolImpl.doIt(ThreadPoolImpl.java:257)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at com.zfabrik.impl.work.ThreadPoolImpl.executeAs(ThreadPoolImpl.java:343)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at com.zfabrik.impl.work.ThreadPoolImpl.executeAs(ThreadPoolImpl.java:301)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at com.zfabrik.impl.servlet.jsp.webapp.WebAppContextWrapper.doHandle(WebAppContextWrapper.java:67)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.servlet.ServletHandler.doScope(ServletHandler.java:413)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.server.session.SessionHandler.doScope(SessionHandler.java:192)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.server.handler.ContextHandler.doScope(ContextHandler.java:999)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.server.handler.ScopedHandler.handle(ScopedHandler.java:117)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.server.handler.ContextHandlerCollection.handle(ContextHandlerCollection.java:250)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.server.handler.HandlerCollection.handle(HandlerCollection.java:149)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.server.handler.HandlerWrapper.handle(HandlerWrapper.java:111)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.server.Server.handle(Server.java:350)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.server.AbstractHttpConnection.handleRequest(AbstractHttpConnection.java:454)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.server.AbstractHttpConnection.headerComplete(AbstractHttpConnection.java:890)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.server.AbstractHttpConnection$RequestHandler.headerComplete(AbstractHttpConnection.java:944)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.http.HttpParser.parseNext(HttpParser.java:630)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.http.HttpParser.parseAvailable(HttpParser.java:230)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.server.AsyncHttpConnection.handle(AsyncHttpConnection.java:77)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.io.nio.SelectChannelEndPoint.handle(SelectChannelEndPoint.java:620)

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07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.io.nio.SelectChannelEndPoint$1.run(SelectChannelEndPoint.java:46)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.util.thread.QueuedThreadPool.runJob(QueuedThreadPool.java:603)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.eclipse.jetty.util.thread.QueuedThreadPool$3.run(QueuedThreadPool.java:538)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at java.lang.Thread.run(Thread.java:680)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: Caused by: java.io.FileNotFoundException: no such file: /Users/udoo/dev/hd-mobil/hippo/z2_hippo/workspace/z2-core/work/repos/7ea65360/pkg/recursive-tag-files/web/1400a813698/gen/jetty/jsp/org/apache/jsp/tag/web/loop_tag.class
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.apache.jasper.compiler.SmapUtil$SDEInstaller.<init>(SmapUtil.java:262)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.apache.jasper.compiler.SmapUtil$SDEInstaller.install(SmapUtil.java:234)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.apache.jasper.compiler.SmapUtil.installSmap(SmapUtil.java:162)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.apache.jasper.compiler.Compiler.generateClass(Compiler.java:406)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.apache.jasper.compiler.Compiler.compile(Compiler.java:453)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: at org.apache.jasper.JspCompilationContext.compile(JspCompilationContext.java:625)
07/23 09:49:39 [28]...ent/webWorker@0.2 [800]: ... 76 more

```

History

#1 - 23.07.2013 10:09 - Udo Offermann

- Description updated

#2 - 25.07.2013 12:09 - Udo Offermann

- Due date set to 05.08.2013

#3 - 30.07.2013 10:09 - Henning Blohm

- Status changed from New to In Progress

#4 - 30.07.2013 12:17 - Henning Blohm

- Status changed from In Progress to Rejected

Tested on two machines with latest z2_base from Git (in that case Jetty 8.1.11) and works fine. Suggest re-test after transport.

#5 - 30.07.2013 12:17 - Henning Blohm

- Target version set to 2.2

#6 - 09.08.2013 15:16 - Udo Offermann

- Status changed from Rejected to In Progress

still reproducible on Mac OS on a Z2 clean room installation

#7 - 09.08.2013 16:52 - Udo Offermann

- Status changed from In Progress to Resolved

The bug occurs only on Udo's system but not on Henning's system.

The difference between Henning's and Udo's system is that Henning is using JDK 1.7 while Udo is using 1.6.

In org.apache.jasper.EmbeddedServletOptions the *keepgenerated* parameter is set as:

```

...
keepGenerated = getBoolean(config, ! isJDK6(), "keepgenerated");
...

private boolean isJDK6() {
    return "1.6".equals(System.getProperty("java.specification.version"));
}

```

Thus the default for *keepgenerated* is true in JDK 1.7.

Setting *keepgenerated* to *true* inside default-web.xml seems to solve the problem.

Nevertheless it is unclear why the bug does not occur on a plain jetty installation with JDK 1.6.

#8 - 09.08.2013 18:35 - Udo Offermann

Found the reason why plain Jetty does not have the problem!

Jetty 8 uses JSR199JavaCompiler by default. z2 favors the Eclipse Java compiler because JSR199JavaCompiler requires a JDK while z2 only needs a JRE (see also [Jetty #1126](#))

z2/jetty can be configured to use JSR199JavaCompiler. Just comment the following section inside environemnt/webServer/jetty.xml:

```
...
<!-- let jetty use the ECJ rather than looking for a JDK
    See also http://wiki.eclipse.org/Jetty/Howto/Configure_JSP
<Call class="java.lang.System" name="setProperty">
  <Arg>org.apache.jasper.compiler.disablejsr199</Arg>
  <Arg>false</Arg>
</Call>
-->
```

Make sure that you have a JDK installed.

Files

rtf.war	1.7 KB	23.07.2013	Udo Offermann
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