

Kepler - Bug #1766

Error with Ecogrid searches for JVM 1.4.2_05 and _06

11/09/2004 08:27 AM - Dan Higgins

Status:	Resolved	Start date:	11/09/2004
Priority:	Normal	Due date:	
Assignee:	Jing Tao	% Done:	0%
Category:	general	Estimated time:	0.00 hour
Target version:	1.0.0alpha6	Spent time:	0.00 hour
Bugzilla-Id:	1766		

Description

There is an error which occurs on Windows and Macs running JVM 1.4.2_05 and _06. Error message is shown below. It occurs when searching the ecogrid with an empty cache. Works OK for 1.4.1_04 and on all versions of Linux

```
[java] The service type from configure file is EcoGridQueryInterface
[java] The value of serviceName is KU Digir EcoGrid QueryInterface
[java] The value of serviceType is EcoGridQueryInterface
[java] The value of endPoint is http://kuecogrid.ittc.ku.edu:8080/ogsa/services/org/ecoinformatics/ecogrid/EcoGridQueryInterfaceLevelOneService
[java] The value of namespace is http://digir.net/schema/conceptual/darwin/full/2001/1.0
[java] The value of label is Darwin Core 1.0
[java] The namespace for this document type is http://digir.net/schema/conceptual/darwin/full/2001/1.0
[java] The label for this document type is Darwin Core 1.0
[java] The metadata specification class name is org.ecoinformatics.seek.datasource.darwincore.DarwinCoreMetaDataSpecification
[java] read service KU Digir EcoGrid QueryInterface from config file to vector
[java] java.lang.IllegalAccessException: tried to access field org.apache.xpath.compiler.FunctionTable.m_functions from class org.apache.xml.security.Init
[java]     at org.apache.xml.security.Init.init (Unknown Source)
[java]     at org.globus.ogsa.impl.security.authentication.wssec.WSSecurityEngine.<clinit> (WSSecurityEngine.java:55)
[java]     at org.globus.ogsa.impl.security.authentication.wssec.WSSecurityClientHandler.handleResponse (WSSecurityClientHandler.java:51)
[java]     at org.apache.axis.handlers.HandlerChainImpl.handleResponse (HandlerChainImpl.java:153)
[java]     at org.apache.axis.handlers.JAXRPCHandler.invoke (JAXRPCHandler.java:84)
[java]     at org.globus.ogsa.utils.JAXRPCHandler.invoke (JAXRPCHandler.java:16)
[java]     at org.apache.axis.strategies.InvocationStrategy.visit (InvocationStrategy.java:71)
[java]     at org.apache.axis.SimpleChain.doVisiting (SimpleChain.java:150)
[java]     at org.apache.axis.SimpleChain.invoke (SimpleChain.java:120)
[java]     at org.apache.axis.client.AxisClient.invoke (AxisClient.java:193)
[java]     at org.apache.axis.client.Call.invokeEngine (Call.java:2564)
[java]     at org.apache.axis.client.Call.invoke (Call.java:2553)
[java]     at org.apache.axis.client.Call.invoke (Call.java:2248)
[java]     at org.apache.axis.client.Call.invoke (Call.java:2171)
[java]     at org.apache.axis.client.Call.invoke (Call.java:1691)
[java]     at org.ecoinformatics.ecogrid.stub.bindings.EcoGridQueryLevelOneServiceSOAPBindingStub.get (EcoGridQueryLevelOneServiceSOAPBindingStub.java:846)
[java]     at org.ecoinformatics.ecogrid.client.EcogridQueryClient.get (EcogridQueryClient.java:297)
[java]     at org.ecoinformatics.seek.datasource.EcogridMetaDataCacheItem.doWork (EcogridMetaDataCacheItem.java:90)
[java]     at org.ecoinformatics.seek.datasource.DataCacheItem.run (DataCacheItem.java:482)
```

History

#1 - 11/09/2004 11:25 AM - Christopher Brooks

Maybe this is related?

http://www-unix.globus.org/mail_archive/discuss/2004/09/msg00133.html

says

Hi all

I am trying to run a simple grid service but I keep getting the following error stack at the client side. There are no errors on the server side any help is appreciated
...Mine

Exception in thread "main" java.lang.IllegalAccessException: tried to access field org.apache.xpath.compiler.FunctionTable.m_functions from class org.apache.xml.security.Init

This exception is caused by the version of xalan.jar supplied with java 1.4.2_05. A workaround is described here:

http://www-unix.globus.org/mail_archive/discuss/2004/09/msg00017.html

This is a problem specifically with java 1.4.2_05. It looks like a bug has been filed with the Axis people:

http://issues.apache.org/bugzilla/show_bug.cgi?id=30764

Copying \$GLOBUS_LOCATION/lib/xalan.jar to \$JAVA_HOME/lib/endorsed/ worked to get

around the problem for me, too. Thanks

#2 - 11/11/2004 04:10 PM - Jing Tao

Here is the resolution for java 1.4.2_05 and 1.4.2_06
make a dir - \$JAVA_HOME\jre\lib\endorsed and copy the xalan.jar from kepler/lib/jar/apache to the "endorsed" directory. It should work.
The reason seems: SUN packaged a beta of Xalan into the JDK, but the xml-security package requires a stable version of Xalan (v2.2.0 or later). But I am still confused why 1.4.2_04 works but 1.4.2_05 and 1.4.2_06 doesn't work.
We need to document kepler for release.

#3 - 01/20/2005 09:45 AM - Jing Tao

Dan found we can set endorsed directory as a parameter to pass to JVM. So now we set ./lib/jar/apache as endorsed dir in build.xml file. User don't need copy xalan.jar file to java dir now.

#4 - 03/27/2013 02:18 PM - Redmine Admin

Original Bugzilla ID was 1766