

Kepler - Bug #3809

jni actors do not work

02/05/2009 10:59 AM - Daniel Crawl

Status:	Resolved	Start date:	02/05/2009
Priority:	Normal	Due date:	
Assignee:	Chad Berkley	% Done:	0%
Category:	build system	Estimated time:	0.00 hour
Target version:	2.0.0	Spent time:	0.00 hour
Bugzilla-Id:	3809		
Description Actors using native libs do not work, either trunk or 1.0. Example workflows containing some of these actors: demos/ENM/GARP_SingleSpecies_BestRuleSet-IV.xml demos/Matlab/MatlabExpression.xml			
Related issues: Blocked by Kepler - Bug #3931: Get the R actor working with JNI Blocked by Kepler - Bug #3949: Get the installer working with the new build s...			
		New	04/02/2009
		Resolved	04/06/2009

History

#1 - 04/02/2009 11:02 AM - Daniel Crawl

I've fixed this for the command-line build.
This bug can be closed when it's fixed for the IDEs.

#2 - 04/03/2009 01:43 PM - Chad Berkley

Need to check the IDEs to make sure JNI works.

#3 - 04/07/2009 11:22 AM - ben leinfelder

in Eclipse I've been launching Kepler (org.kepler.core.loader.Loader) with the following VM argument:
-Djava.library.path=\${project_loc:common}/lib

Without that argument, I get ugly java.lang.UnsatisfiedLinkError exceptions (and crash, in the case of my JRI libs)

Maybe using a code-based approach is better than a launch-based?
We could do some looping in the lib directory, and load each library on start up:
[http://java.sun.com/j2se/1.5.0/docs/api/java/lang/System.html#load\(java.lang.String\)](http://java.sun.com/j2se/1.5.0/docs/api/java/lang/System.html#load(java.lang.String))

#4 - 04/14/2009 11:17 AM - ben leinfelder

i'd assume that the installer/launcher version of Kepler will be able to set the java.library.path property on start up, but how would we handle different modules that might need to have their binary libraries (dll, so..) added to the path?

#5 - 04/21/2009 04:00 PM - ben leinfelder

now that the R actors (and the JRI implementations) have been moved to another module, I'm using a colon-separated list for the java.library.path when running within eclipse:
-Djava.library.path=\${project_loc:common}/lib:\${project_loc:r}/lib

#6 - 04/22/2009 03:44 PM - Chad Berkley

Check that this works with the installer.

#7 - 05/04/2009 03:14 PM - Chad Berkley

JNI actors now work with both the installed and the ant-executed versions of kepler. The java.library.path is also added to the path variable on windows so the dlls do not have to be put into the system32 dir.

#8 - 03/27/2013 02:24 PM - Redmine Admin

Original Bugzilla ID was 3809