

Kepler - Bug #1835

create jni cookbook for creating jni actors

12/15/2004 03:38 PM - Chad Berkley

Status:	Resolved	Start date:	12/15/2004
Priority:	Normal	Due date:	
Assignee:	Chad Berkley	% Done:	0%
Category:	general	Estimated time:	0.00 hour
Target version:	Unspecified	Spent time:	0.00 hour
Bugzilla-Id:	1835		
Description			
need to create a good readme with instructions on creating actors that can call native code via jni.			

History

#1 - 12/16/2004 07:40 AM - Christopher Brooks

Perhaps some of the resources below can be used as a starting point.

The Matlab actor uses JNI.

Ptolemy II includes a JNI actor facility, but the UI is broken right now.

See

<http://ptolemy.eecs.berkeley.edu/ptolemyII/ptII4.0/ptII4.0.1/jni/doc/JNIActorHelp.pdf>

How to use the JNI actor facility is covered in ptII/jni/demo/jni/README.htm

The release notes say:

--start--

Limitations in JNI

1. The Interface to C actors using the Java Native Interface is not available via the Windows Installer (or Web Start). To use the JNI/Ptolemy II interface, you must download Ptolemy II as source files and compile.
2. The JNI user interface does not permit creation of new JNI actors.

If you follow the instructions in JNIUtilities, then eventually you will get a NameDuplicationException.

The resulting model will be missing

```
<property name="output" class="jni.Argument" value="false,false,true,double">
</property>
```

We are working with the original authors on a solution.

In the short term, one workaround is to edit the xml file directly and add the appropriate property by hand.

1. JNI will not work with Hierarchical classes, subclasses, and inner classes
- end--

In addition, there are problems with the JNI interface under gcc-3.3, gcc-3.2 is recommended.

#2 - 01/05/2005 08:58 AM - Chad Berkley

created the kepler/docs/tutorial/JNIHowTo.txt with detailed instructions on how to create jni based actors.

#3 - 03/27/2013 02:18 PM - Redmine Admin

Original Bugzilla ID was 1835