

Kepler - Bug #4956

make sure matlab works with installed version of kepler 2.0

04/23/2010 09:43 AM - Chad Berkley

Status:	Resolved	Start date:	04/23/2010
Priority:	Normal	Due date:	
Assignee:	jianwu jianwu	% Done:	0%
Category:	actors	Estimated time:	0.00 hour
Target version:	2.0.0	Spent time:	0.00 hour
Bugzilla-Id:	4956		
Description			
need to get matlab demo workflows working.			
Related issues:			
Blocked by Kepler - Bug #4943: RC5 Installer Tracking Bug			Resolved 04/19/2010

History

#1 - 04/27/2010 03:00 PM - jianwu jianwu

Daniel and I are updating ptmatlab.cc to make it work with Mac 64 bit. It will be done in one or two days. We will test it in Windows, Linux and Mac, 32 bit and 64 bit. After that, we should be able to get new matlab libraries.

Chad, do you want to wait a few days to test new libs after we get them?

#2 - 04/27/2010 03:07 PM - Chad Berkley

Yeah, I'll wait for your changes. Let me know as soon as you get it working.

#3 - 04/29/2010 02:35 PM - jianwu jianwu

Dan and I updated the ptmatlab.cc in ptolmy module, created the libs for Mac (32 and 64 bit), Windows (32 and 64 bit), Linux (32 bit). We also updated the Matlab demo workflow explaining how to use run it in 64 bit environment.

The libs for windows bit and 64 bit can not be merged like Mac. To use in windows 64, users have to rename lib ptmatlab64.dll to ptmatlab.dll bit by themselves.

All the changes have been checked into both 2.0 branch and trunk.

The only thing left is to generate lib for Linux 64 bit. It probably will get a separate lib like the one for windows 64 bit. We do not have Linux 64 bit installed, so we didn't do it.

Chad, you can go ahead to test these libs now.

#4 - 04/29/2010 04:30 PM - jianwu jianwu

I made a wiki page (<https://kepler-project.org/developers/teams/build/matlab-lib-build-instructions-in-kepler-for-matlab-actor>) at kepler web site about how to build Matlab libraries on their own environments.

Feel free to update it.

#5 - 05/06/2010 03:08 PM - jianwu jianwu

re-assign to Jianwu

#6 - 05/07/2010 11:06 AM - Daniel Crawl

works for me on 32 bit mac and windows with RC2

#7 - 05/07/2010 11:37 AM - jianwu jianwu

works for me on 32 bit linux. closing the bug.

#8 - 05/12/2010 05:47 PM - Christopher Brooks

This bug is closed, but I just thought I'd update the situation.

I was able to build a 32 bit ptmatlab.dll using Mingw.

I updated
<https://kepler-project.org/developers/teams/build/matlab-lib-build-instructions-in-kepler-for-matlab-actor/?searchterm=mingw>
with details.

I also created a Mingw zip file and added it to the ptII8.0 web page
<http://ptolemy.eecs.berkeley.edu/ptII8.0/cygwin.htm>

I also updated the Ptolemy demos and the matlab.Expression actor with better instructions.

I removed ptolemy/jni from the devel trunk and the 8.0 branch.
ptolemy/jni was only necessary because it had ptolemy/jni/launcher which created an executable that would invoke Ptolemy via JNI. This was necessary for running Java with JNI under Cygwin. It is no longer necessary, so it is gone.

The one remaining issue in Ptolemy is to deal with 32 vs. 64 bit.
However, this can wait as I do not have access to a 64 bit machine.

#10 - 05/13/2010 04:34 PM - jianwu jianwu

Hi Christopher, thanks a lot for your update.
I tried it on 64 bit mac and 64 bit windows. As I expected, it works on 64 bit mac, but not on 64 bit windows.

So I updated the wiki page
<https://kepler-project.org/developers/teams/build/matlab-lib-build-instructions-in-kepler-for-matlab-actor/?searchterm=mingw> trying to explain how to build lib for 64 bit windows. You can have a check.

One issue I met is the javah can not be set by ./configure on 64 bit windows, since we do not have mingw32-gcc in 64 bit windows. javah is required to generate ptmatlab.h. So I have to change configure.in a little bit to generate matlab lib. I attached the configure.in I modified, you can see the changes.

#11 - 05/13/2010 04:48 PM - Christopher Brooks

Thanks, I merged in that updated version of configure.in and configure into the trunk and the 8.0 release branch.

I'd like to fix this for 64-bit Windows, but I need a machine.

#12 - 05/13/2010 04:54 PM - jianwu jianwu

thanks. Fixing this for 64-bit Windows needs to get mingwdll.sh script 64 bit windows and update configure.in. The work amount may be more than rebuilding matlab actor using JNA. :)

#13 - 03/27/2013 02:28 PM - Redmine Admin

Original Bugzilla ID was 4956

Files

configure.in	189 KB	05/13/2010	jianwu jianwu
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