

Kepler - Bug #5076

Minimize the number of files downloaded from the Ptolemy repository.

06/30/2010 08:51 PM - David Welker

<b>Status:</b>	New	<b>Start date:</b>	06/30/2010
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	David Welker	<b>% Done:</b>	0%
<b>Category:</b>	general	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	2.X.Y	<b>Spent time:</b>	0.00 hour
<b>Bugzilla-Id:</b>	5076		
<b>Description</b> (12) Minimize the number of files downloaded from the Ptolemy repository.  Ptolemy is a very large project that consists of a large number of files. Many of these files are not useful to Kepler, but they nonetheless significantly slow down Eclipse and IDEA. It should be possible to design the build system so that it does not download a majority of the files that are not actually useful for Kepler. One approach would be to divide Ptolemy into modules. Another would be to divide the Ptolemy repository into parts and download those parts either into separate modules or one or more special modules.			
<b>Related issues:</b> Blocked by Kepler - Bug #5064: Kepler 2.1 Tracking Bug			
		New	06/30/2010

History

#1 - 07/06/2010 06:29 PM - Christopher Brooks

Ptolemy currently is deployable as a number of jar files that do not include the source code.

The Ptolemy project has a proposal to get funding to use OSGi to componentize Ptolemy. This funding is likely, but until it is a done deal, the work will not happen. This work is scheduled to begin in late Summer, 2011, but could happen earlier.

The short term solution would be to use the current Ptolemy makefile infrastructure to generate the list of jars:

```
svn co https://source.eecs.berkeley.edu/svn/chess/ptll/trunk ptll
cd ptll
export PTLL=`pwd`
./configure
make >& make.out
make install jar_dist >& install.out &
make echo_jars JARS=PTINY_KEPLER_JNLP_JARS | grep .jar | awk -F \" '{print $2}'
```

The last rule produces the following jar files:

```
../../../../jar_dist/ptolemy/actor/gui/jnlp/PtinyKeplerApplication.jar
../../../../jar_dist/doc/docConfig.jar
../../../../jar_dist/lib/diva.jar
../../../../jar_dist/lib/kieler.jar
../../../../jar_dist/ptolemy/ptsupport.jar
../../../../jar_dist/ptolemy/vergil/vergil.jar
../../../../jar_dist/ptolemy/domains/domains.jar
../../../../jar_dist/ptolemy/actor/parameters/demo/demo.jar
../../../../jar_dist/ptolemy/matlab/matlab.jar
../../../../jar_dist/ptolemy/matlab/demo/demo.jar
../../../../jar_dist/lib/matlab.jar
../../../../jar_dist/doc/codeDoc.jar
../../../../jar_dist/doc/design/usingVergil/usingVergil.jar
../../../../jar_dist/lib/jython.jar
../../../../jar_dist/lib/ptcolt.jar
../../../../jar_dist/ptolemy/actor/lib/colt/colt.jar
../../../../jar_dist/ptolemy/actor/lib/colt/demo/demo.jar
../../../../jar_dist/ptolemy/actor/lib/comm/demo/demo.jar
../../../../jar_dist/ptolemy/actor/lib/hoc/demo/demo.jar
../../../../jar_dist/ptolemy/actor/lib/jvasound/demo/demo.jar
../../../../jar_dist/ptolemy/actor/lib/jni/demo/demo.jar
```

```
../../../../jar_dist/ptolemy/actor/lib/python/python.jar
../../../../jar_dist/ptolemy/actor/lib/python/demo/demo.jar
../../../../jar_dist/ptolemy/actor/lib/security/demo/demo.jar
../../../../jar_dist/ptolemy/actor/ptalon/antlr/antlr.jar
../../../../jar_dist/ptolemy/actor/ptalon/demo/demo.jar
../../../../jar_dist/ptolemy/actor/ptalon/ptalon.jar
../../../../jar_dist/ptolemy/domains/continuous/demo/demo.jar
../../../../jar_dist/ptolemy/domains/continuous/doc/doc.jar
../../../../jar_dist/ptolemy/domains/ct/demo/demo.jar
../../../../jar_dist/ptolemy/domains/ct/doc/doc.jar
../../../../jar_dist/ptolemy/domains/fsm/doc/doc.jar
../../../../jar_dist/ptolemy/domains/fsm/demo/demo.jar
../../../../jar_dist/ptolemy/domains/modal/doc/doc.jar
../../../../jar_dist/ptolemy/domains/modal/demo/demo.jar
../../../../jar_dist/ptolemy/domains/sdf/demo/demo.jar
../../../../jar_dist/ptolemy/domains/sdf/doc/doc.jar
../../../../jar_dist/ptolemy/data/type/demo/demo.jar
../../../../jar_dist/ptolemy/data/unit/demo/demo.jar
../../../../jar_dist/ptolemy/domains/ddf/demo/demo.jar
../../../../jar_dist/ptolemy/domains/ddf/doc/doc.jar
../../../../jar_dist/ptolemy/domains/de/demo/demo.jar
../../../../jar_dist/ptolemy/domains/de/doc/doc.jar
../../../../jar_dist/ptolemy/domains/hdf/demo/demo.jar
../../../../jar_dist/ptolemy/domains/hdf/doc/doc.jar
../../../../jar_dist/ptolemy/domains/pn/demo/demo.jar
../../../../jar_dist/ptolemy/domains/pn/doc/doc.jar
../../../../jar_dist/ptolemy/domains/rendezvous/demo/demo.jar
../../../../jar_dist/ptolemy/domains/rendezvous/doc/doc.jar
../../../../jar_dist/ptolemy/domains/sr/demo/demo.jar
../../../../jar_dist/ptolemy/domains/sr/doc/doc.jar
../../../../jar_dist/ptolemy/moml/demo/demo.jar
../../../../jar_dist/ptolemy/vergil/kernel/attributes/demo/demo.jar
```

This is 106 jar files. 106 modules seems like too many. See <https://kepler-project.org/developers/reference/ptolemy-package-dependencies> for a list of possible modules.

I'm strongly opposed to creating a copy of the Ptolemy tree because it makes updating a nightmare. For example, the `ptolemy/module-info/revision.txt` has not been updated in almost a month, see bug 4324. This means that any bug fixes or changes in functionality in Ptolemy are not present in the Kepler devel tree.

It seems like a good interim solution would be to use ant to invoke the Ptolemy makefile build system to create the jars and then group the jars into a module. This would take less time, probably around 32 hrs. I'd be willing to hack up some rules that would build a few jar files that would match the module dependencies in <https://kepler-project.org/developers/reference/ptolemy-package-dependencies>

The OSGi solution would take a few months and is scheduled for next year so would probably not happen for Kepler-2.1

## **#2 - 07/07/2010 10:37 AM - Christopher Brooks**

As per Kepler leadership discussion, moving this to 2.X.Y. Note that we will have Kepler devel telcon to discuss 2.1, so I'm leaving this as blocking 5064.

## **#3 - 03/27/2013 02:29 PM - Redmine Admin**

Original Bugzilla ID was 5076