Kepler - Bug #4926

Examine Kepler for duplicated Ptolemy code

4926

04/02/2010 04:14 PM - Christopher Brooks

Status: Resolved Start date: 04/02/2010 **Priority:** Normal Due date: Christopher Brooks % Done: Assignee: 0% **Estimated time:** 0.00 hour Category: general Target version: 2.4.0 Spent time: 0.00 hour

Bugzilla-ld: Description

There are a few files in Kepler that have Edward listed as an author. I suspect that some of these are duplicated code from the Ptolemy II tree.

In the 2.0 release, I searched all the java files for Edward's name and came up with this list:

bash-3.2\$ find . -name "*.java" > /tmp/kj

bash-3.2\$ cat /tmp/kj | grep -v ptolemy-8.0 | xargs grep "Edward A. Lee"

./actors-2.0/src/org/sdm/spa/CommandLineExec.java: * Contributor: Edward A. Lee

./actors-2.0/src/org/sdm/spa/gui/ShellInterpreter.java: * @author Edward A. Lee

./actors-2.0/src/org/sdm/spa/gui/ShellTextArea.java: * @author John Reekie, Christopher Hylands, Edward A. Lee

./actors-2.0/src/org/sdm/spa/gui/UserInteractive Shell. java: * This actor code is adopted from Interactive Shell. java by Edward A. Lee the state of the state

./ecogrid-2.0/src/ptolemy/vergil/tree/PTree.java: @author Steve Neuendorffer and Edward A. Lee

./gui-2.0/src/org/kepler/gui/frame/CaseGraphFrame.java: @author Edward A. Lee

./gui-2.0/src/org/kepler/gui/frame/CaseGraphTableau.java: @author Edward A. Lee

./gui-2.0/src/org/kepler/gui/frame/KeplerGraphTableau.java: @author Based on GraphTableau by Steve Neuendorffer and Edward A Lee

./gui-2.0/src/org/kepler/gui/frame/MultiCompositeGraphFrame.java: @author Edward A. Lee, Daniel Crawl

./gui-2.0/src/org/kepler/gui/frame/MultiCompositeTableau.java: @author Edward A. Lee, Daniel Crawl

./gui-2.0/src/org/kepler/gui/KeplerlconLoader.java: * @author Christopher Brooks, contributor: Edward A. Lee

./gui-2.0/src/org/kepler/gui/KeplerXMLlcon.java: * @author Steve Neuendorffer, John Reekie, Contributor: Edward A. Lee

./util-2.0/src/util/LineReader.java: * @author Edward A. Lee, Yuhong Xiong

bash-3.2\$

Sean Riddle is in the process of fixing the PTree duplication.

To close this bug, each of the files should be examined and ideally, the original class in Ptolemy be modified and the copy be removed or made much smaller.

In addition, to close this bug, if Edward is not listed in the history for the file, then he should be removed as an author and added as a contributor.

History

#1 - 06/17/2012 06:39 PM - Christopher Brooks

./actors/src/org/sdm/spa/gui/ShellTextArea.java has trivial differences from ptolemy/gui/ShellTextArea.java, so I removed the duplicate version.

I checked for duplicates using cpd at http://pmd.sourceforge.net/cpd.html and with a minimum token count of 500, I did not find anything too bad.

Note that cpd does point out duplicates in Ptolemy II itself.

To run cpd, I used

java -Xmx5000m -classpath 'lib/*:saxon9-dom.jar' net.sourceforge.pmd.cpd.CPD --minimum-tokens 500 --files ~/src/kepler --format net.sourceforge.pmd.cpd.XMLRenderer > kepler.xml

xsltproc etc/xslt/cpdhtml.xslt kepler.xml > kepler.html

I'm retargetting this to 2.5.0 so it can be checked again.

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#2 - 06/26/2012 01:15 PM - Christopher Brooks

kepler/gui/src/org/kepler/gui/KeplerGraphFrame.java has lots of duplicated code from BasicGraphFrame. I'm targeting 2.4.0 with this fix because KeplerGraphFrame is at the core of Kepler and should at least be reviewed.

The problem is that bug fixes that appear in BasicGraphFrame will not appear in KeplerGraphFrame.

Also, there are several files with the same class name in Kepler:

- 4 FileCopier.java
- 2 Util.java
- 2 SshSession.java
- 2 ServiceUtils.java
- 2 RepositoryLocations.java
- 2 OntologyCatalog.java
- 2 NameValuePair.java
- 2 KeplerMetadataExtractorTest.java
- 2 Kepler.java
- 2 JobManager.java
- 2 Initialize.java
- 2 Domain.java
- 2 CommandLine.java
- 2 BuildTest.java

These files appear in both Ptolemy and Kepler and should be reviewed

AboutAction.java

ArrayContains.java

ArrayRemoveElement.java

Attribute.java

BackwardCompatibility.java

Branch.java

CacheManager.java

CaseGraphFrame.java

CaseGraphTableau.java

ClassChanges.java

Constants.java

Constraint.java

DatabaseQuery.java

DirectoryListing.java

DocumentationAttribute.java

Entity.java

ExecuteCommands.java

ExtensionFileFilter.java

FileAttribute.java

HelloWorld.java

LineReader.java

Node.java

Pause.java

PortNameChanges.java

PropertyClassChanges.java

Repeat.java

Sequence.java

StringConst.java

SwingWorker.java

Tag.java

Test.java

Also, Kepler has ArrayAccumulator.java and Ptolemy has ArrayAccumulate.

#3 - 06/28/2012 10:01 PM - Christopher Brooks

I looked in to why KeplerGraphFrame has so much duplicated code and it looks like Comad uses KeplerGraphFrameExtension

From the 2010-11-04 comment that added this class:

```
// "Added an extension for a different Drag and Drop behavior.
   // Currently this is only activated in Comad. Once an Actor is
   // dragged from the Library over another actor on the canvas it
   // will replace this actor and Ports are reconnected. Also
   // Parameter values are used for parameters of the new actor if
   // they have the same name.
   //
```

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```
// If an actor is dragged over a link this actor will be inserted
// there. Currently this only works in Comad, where all actors
// have an "input" and one "output" port."
```

The right thing is to add these extension points to the ptll repository and remove the duplicated code.

#4 - 08/06/2012 12:02 PM - Ilkay Altintas

This should be done for each release in the end. It shouldn't be released if it doesn't meet some metrics or criteria. A possible metric is to get rid of it all. It also makes it harder to test upgrades.

- 1. Go through the list and identify duplicate/deprecated actors. (CXH)
- 2. Evaluate each issue on a case basis and document the potential solution.
- 3. Add each as a separate bug for a potential release 2.4 or later.

#5 - 08/06/2012 05:00 PM - Christopher Brooks

To find files that have the same name in both Ptolemy II and Kepler: Look for duplicate file names:

- Get all the .java files except the ptolemy ones find . -name "*.java" | grep -v ptolemy/src > /tmp/kjnop
- 1. Get all the ptolemy.java files find ptolemy/src -name "*.java" > /tmp/pj
- Get the Kepler .java files awk -F / '{print \$NF}' /tmp/kjnop | sort > /tmp/kjnopl
- 1. Get the Ptolemy .java files awk -F / '{print \$NF}' /tmp/pj | sort > /tmp/pjl
- 1. Print any files in common, create a script to find them in the Kepler java files comm -12 /tmp/kjnopl /tmp/pjl | awk '{print "grep /" \$1 " /tmp/kjnop"}' > /tmp/doit
- 1. Run the script sh /tmp/doit | sort

These are to be ignored:

########

./actors/src/org/geon/DatabaseQuery.java Ignore? Duplicate of ptolemy/src/ptolemy/actor/lib/database/DatabaseQuery.java

########

./actors/src/org/sdm/spa/actors/piw/viz/Sequence.java

Ignore: Undocumented file, seems to construct a gene sequence?

########

./actors/src/org/sdm/spa/Pause.java

Ignore: Name match with: ptolemy/src/ptolemy/domains/coroutine/lib/Pause.java

#####

./build-area/src/org/kepler/build/Branch.java

./build-area/src/org/kepler/build/modules/Node.java

./build-area/src/org/kepler/build/Tag.java

./build-area/src/org/kepler/build/Test.java

./build-area/src/org/kepler/build/util/ExecuteCommands.java

Ignore these, they are part of the build system.

######

./core/src/org/kepler/moml/DocumentationAttribute.java

Ignore. This is deprecated:

 $@deprecated \ Use \ ptolemy.vergil.basic.KeplerDocumentationAttribute \ instead.$

######

./core/src/org/kepler/objectmanager/cache/CacheManager.java

./core/src/org/kepler/objectmanager/data/db/Attribute.java

./core/src/org/kepler/objectmanager/data/db/Constraint.java

./core/src/org/kepler/objectmanager/data/db/Entity.java

./core/src/org/kepler/sms/Constants.java

Ignore the above, the names are common enough

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######

./gui/src/org/kepler/gui/AboutAction.java

Ignore. Matches ptolemy/src/ptolemy/backtrack/eclipse/plugin/actions/AboutAction.java

####

./io/src/org/kepler/io/DirectoryListing.java

./outreach/workflows/demos/getting-started/HelloWorld.java lanore.

I've submitted separate bugs for the non-ignored duplicates.

I've checked the Kepler tree for code that says Edward is the author and it looks good:

bash-4.1\$ cat /tmp/kjnop | xargs grep "Edward A. Lee"

./gui/src/org/kepler/gui/KeplerXMLlcon.java: * @author Chad Berkley, based on XMLlcon by Steve Neuendorffer, John Reekie, Contributor: Edward A. Lee

./gui/src/org/kepler/gui/frame/MultiCompositeGraphFrame.java: @author Daniel Crawl, Possibly based on CaseGraphFrame by Edward A. Lee ./gui/src/org/kepler/gui/frame/CaseGraphFrame.java: @author Daniel Crawl, based on ptolemy.vergil.modal.CaseGraphFrame by Edward A. Lee ./gui/src/org/kepler/gui/frame/CaseGraphTableau.java: @author Daniel Crawl, based on ptolemy.vergil.modal.CaseGraphFrame by Edward A. Lee ./gui/src/org/kepler/gui/frame/MultiCompositeTableau.java: @author Daniel Crawl, Possibly based on CaseGraphTableau by Edward A. Lee ./gui/src/org/kepler/gui/frame/KeplerGraphTableau.java: @author Based on GraphTableau by Steve Neuendorffer and Edward A. Lee ./gui/src/org/kepler/gui/KeplerlconLoader.java: * @author Christopher Brooks, contributor: Edward A. Lee

./actors/src/org/sdm/spa/gui/UserInteractiveShell.java: * This actor code is adopted from InteractiveShell.java by Edward A. Lee

./actors/src/org/sdm/spa/Pause.java: * ptolemy.actor.lib.Stop actor code by Edward A. Lee.

./actors/src/org/sdm/spa/Pause.java: * @author Ilkay Altintas, Contributors: Edward A. Lee and Christopher Brooks.

./actors/src/org/sdm/spa/CommandLineExec.java: * Contributor: Edward A. Lee

grep: ./actors/src/org/resurgence/actor/.#FileCopier.java: No such file or directory

./util/src/util/LineReader.java: * @author Efrat Jaeger, based on LineReader by Edward A. Lee, Yuhong Xiong

I'm closing this because we have other bugs and opening a new bug for 2.5.0

#6 - 03/27/2013 02:28 PM - Redmine Admin

Original Bugzilla ID was 4926

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