

Kepler - Bug #5412

saving with an open plot window crashes

05/26/2011 03:04 PM - Daniel Crawl

Status:	Resolved	Start date:	05/26/2011
Priority:	Normal	Due date:	
Assignee:	David Welker	% Done:	0%
Category:	general	Estimated time:	0.00 hour
Target version:	2.3.0	Spent time:	0.00 hour
Bugzilla-Id:	5412		
Description			
If there is a plot window open, the following error occurs when saving and crashes Kepler. It also partially writes out the model file, leaving it corrupt.			
<pre>[run] java.lang.RuntimeException: Internal Error. Mark style 0 not supported. [run] at ptolemy.plot.Plot.writeFormat (Plot.java:1071) [run] at ptolemy.actor.lib.gui.PlotterBase._exportMoMLContents (PlotterBase.java:509) [run] at ptolemy.kernel.util.NamedObj.exportMoML (NamedObj.java:933) [run] at ptolemy.kernel.InstantiableNamedObj.exportMoML (InstantiableNamedObj.java:218) [run] at ptolemy.kernel.util.NamedObj.exportMoML (NamedObj.java:839) [run] at ptolemy.kernel.util.NamedObj.exportMoML (NamedObj.java:767) [run] at org.kepler.objectmanager.ActorMetadata.toString (ActorMetadata.java:1106) [run] at org.kepler.kar.KARBuilder.handleInitiatorList (KARBuilder.java:202) [run] at org.kepler.kar.KARBuilder.generateKAR (KARBuilder.java:313) [run] at org.kepler.kar.SaveKAR.saveToDisk (SaveKAR.java:154) [run] at org.kepler.gui.kar.ExportArchiveAction.actionPerformed (ExportArchiveAction.java :403) [run] at javax.swing.AbstractButton.fireActionPerformed (AbstractButton.java:2028) [run] at javax.swing.AbstractButton\$Handler.actionPerformed (AbstractButton.java:2351) [run] at javax.swing.DefaultButtonModel.fireActionPerformed (DefaultButtonModel.java:387) [run] at javax.swing.DefaultButtonModel.setPressed (DefaultButtonModel.java:242) [run] at javax.swing.AbstractButton.doClick (AbstractButton.java:389) [run] at com.apple.laf.ScreenMenuItem.actionPerformed (ScreenMenuItem.java:95) [run] at java.awt.MenuItem.processActionEvent (MenuItem.java:627) [run] at java.awt.MenuItem.processEvent (MenuItem.java:586) [run] at java.awt.MenuComponent.dispatchEventImpl (MenuComponent.java:337) [run] at java.awt.MenuComponent.dispatchEvent (MenuComponent.java:325) [run] at java.awt.EventQueue.dispatchEventImpl (EventQueue.java:683) [run] at java.awt.EventQueue.access\$000 (EventQueue.java:86) [run] at java.awt.EventQueue\$1.run (EventQueue.java:639) [run] at java.awt.EventQueue\$1.run (EventQueue.java:637) [run] at java.security.AccessController.doPrivileged (Native Method) [run] at java.security.AccessControlContext\$1.doIntersectionPrivilege (AccessControlConte xt.java:87) [run] at java.security.AccessControlContext\$1.doIntersectionPrivilege (AccessControlConte xt.java:98) [run] at java.awt.EventQueue\$2.run (EventQueue.java:653) [run] at java.awt.EventQueue\$2.run (EventQueue.java:651) [run] at java.security.AccessController.doPrivileged (Native Method) [run] at java.security.AccessControlContext\$1.doIntersectionPrivilege (AccessControlConte xt.java:87) [run] at java.awt.EventQueue.dispatchEvent (EventQueue.java:650) [run] at java.awt.EventDispatchThread.pumpOneEventForFilters (EventDispatchThread.java:29 6) [run] at java.awt.EventDispatchThread.pumpEventsForFilter (EventDispatchThread.java:211) [run] at java.awt.EventDispatchThread.pumpEventsForHierarchy (EventDispatchThread.java:20 1) [run] at java.awt.EventDispatchThread.pumpEvents (EventDispatchThread.java:196) [run] at java.awt.EventDispatchThread.pumpEvents (EventDispatchThread.java:188) [run] at java.awt.EventDispatchThread.run (EventDispatchThread.java:122)</pre>			

History

#1 - 05/26/2011 03:30 PM - Christopher Brooks

I checked in a change to `ptolemy.plot.Plot`, but I can't verify that the problem is fixed in Kepler because Kepler does not build in a fresh tree for me.

Before the change, I could not replicate the problem in Ptolemy.

I ran
`$PTII/bin/vergil ~/ptII/ptolemy/domains/sdf/demo/Butterfly/Butterfly.xml`
and then tried to save the model.

When you say "Kepler crashes", do you mean that the Kepler process exits or do you mean that you get a stack trace?

If Kepler crashes, then there is a more substantial problem that should be fixed.

I temporarily modified `ptolemy/plot/Plot.java` to always throw an exception:

```
/** Write plot format information to the specified output stream in
 * PlotML, an XML scheme.
 * @param output A buffered print writer.
 */
public synchronized void writeFormat(PrintWriter output) {
    super.writeFormat(output);
}

if (1==1) {
    throw new RuntimeException("Test for internal error while writing");
}
```

When I run the above `veril` command, I can try to save the plot or the model and I get a stack trace in both situations, but Vergil stays running.

Could you make a similar change to the `Plot.java` file in Kepler and verify that Kepler remains running even if there is an exception?

#2 - 05/26/2011 03:49 PM - Daniel Crawl

I added throw new `RuntimeException` to `Plot.java` and saving to XML generates an exception, but saving to KAR exits Kepler.

I updated `Plot.java` to r61046 to get your fix, and still get errors, but these don't appear related to `Plot`. In both cases, Kepler does not exit.

Saving to XML:

```
java.lang.NullPointerException
at org.kepler.gui.KeplerGraphFrame._saveAs(KeplerGraphFrame.java:1491)
at ptolemy.actor.gui.TableauFrame._saveAs(TableauFrame.java:1071)
at ptolemy.actor.gui.PtolemyFrame._saveAs(PtolemyFrame.java:360)
at ptolemy.actor.gui.TableauFrame._save(TableauFrame.java:1051)
at ptolemy.gui.Top$FileMenuListener.actionPerformed(Top.java:1208)
at org.kepler.gui.MenuMapper$1.actionPerformed(MenuMapper.java:386)
```

Saving to KAR:

```
[run] java.lang.NullPointerException
[run]     at org.kepler.objectmanager.library.LibraryManager.deleteKAR(LibraryManager.java:543)
[run]     at org.kepler.keINFO (org.kepler.kar.KARBuilder:writeKARFile:581) done writing KAR file to /Users/cr
awl/KeplerData/workflows/MyWorkflows/Unnamed1.kar
[run] ptolemy.gui.kar.ExportArchiveAction.actionPerformed(ExportArchiveAction.java:389)
[run]     at javax.swing.AbstractButton.fireActionPerformed(AbstractButton.java:2028)
[run]     at javax.swing.AbstractButton$Handler.actionPerformed(AbstractButton.java:2351)
[run]     at javax.swing.DefaultButtonModel.fireActionPerformed(DefaultButtonModel.java:387)
[run]     at javax.swing.DefaultButtonModel.setPressed(DefaultButtonModel.java:242)
[run]     at javax.swing.AbstractButton.doClick(AbstractButton.java:389)
[run]     at com.apple.laf.ScreenMenuItem.actionPerformed(ScreenMenuItem.java:95)
[run]     at java.awt.MenuItem.processActionEvent(MenuItem.java:627)
[run]     at java.awt.MenuItem.processEvent(MenuItem.java:586)
[run]     at java.awt.MenuComponent.dispatchEventImpl(MenuComponent.java:337)
[run]     at java.awt.MenuComponent.dispatchEvent(MenuComponent.java:325)
[run]     at java.awt.EventQueue.dispatchEventImpl(EventQueue.java:683)
[run]     at java.awt.EventQueue.access$000(EventQueue.java:86)
[run]     at java.awt.EventQueue$1.run(EventQueue.java:639)
[run]     at java.awt.EventQueue$1.run(EventQueue.java:637)
[run]     at java.security.AccessController.doPrivileged(Native Method)
```

