

Kepler - Bug #4547

documentation for file parameter includes an error

11/13/2009 03:06 PM - Oliver Soong

Status:	Resolved	Start date:	11/13/2009
Priority:	Normal	Due date:	
Assignee:	Christopher Brooks	% Done:	0%
Category:	actors	Estimated time:	0.00 hour
Target version:	2.0.0	Spent time:	0.00 hour
Bugzilla-Id:	4547		
Description			
The documentation for the file parameter includes at the top:			
Error evaluating DocAttribute parameter: ptolemy.kernel.util.IllegalActionException: Error evaluating expression:			
and at the bottom:			
in .Unnamed1.FileParameter. .description Because: The ID ID is undefined.			

History

#1 - 12/27/2009 11:14 AM - ben leinfelder

also in StringParameter.
It's not in the actor moml...so it must be in the action that is displaying the documentation

#2 - 12/29/2009 07:59 AM - ben leinfelder

Parsing the description is throwing an error - perhaps it's trying to substitute values or \$ID?
Snippet from the FileParameter.xml MOML below:

```
<p>The FileParameter specifies a file or URL. The value of the parameter is a string that may contain references to variables within scope (i.e., variables defined at the same level of the hierarchy or higher) using the $ID ${ID}, or $(ID) syntax. </p>
```

#3 - 01/03/2010 12:26 PM - Christopher Brooks

Viewing the documentation for FileParameter works fine in the pttl tree,
but fails in Kepler, probably because of something about the Kepler customizations to the documentation viewer.

However, if I modify ptolemy/vergil/actor/DocManager.java to include the stack trace:

```
_exception = "Error evaluating DocAttribute parameter:\n" + e  
+ ptolemy.kernel.util.KernelException.stackTraceToString(e);
```

Then I get the stack trace below, which does not include a call to ptolemy/ptolemy/vergil/basic/KeplerDocumentationAttribute.java

Looking at the code, I see that DocAttribute has description as a StringParameter.

I think this should be changed to a StringAttribute so that the contents of the description are not evaluated and so that \$ID is not expanded.

I made this change in my tree and found it was necessary to add a MoMLFilter for this change because the configuration has files that ptolemy/configs/basicUtilities.xml include lines like:

```
&lt;property name="description" class="ptolemy.data.expr.StringParameter" value="To edit the documentation tha  
t appears&#10;when the user double clicks on this icon,&#10;right click on the background  
of the model and select&#10;Documentation-&#10;Customize Documentation.&#10;The description you are currently  
editing&#10;will not appear when the user double clicks on the Documentation icon."&gt;
```

The MoMLFilter looks for DocAttributes and changes the class of description from StringParameter to StringAttribute.

The question is: should this change go in to the Ptolemy tree, or is the problem really in Kepler?

I think the description should be a StringAttribute, not a StringParameter.
However, this change would require updating many files because the filter
would mark the files as modified.

Anyway, here's the stack trace from Kepler

```
ptolemy.data.expr.Variable._evaluate(Variable.java:1656) at ptolemy.data.expr.Variable.getToken(Variable.java:578) at
ptolemy.data.expr.StringParameter.stringValue(StringParameter.java:95) at ptolemy.vergil.actor.DocManager. (DocManager.java:164) at
ptolemy.vergil.actor.DocViewer._init(DocViewer.java:652) at ptolemy.vergil.actor.DocViewer. (DocViewer.java:115) at
ptolemy.vergil.actor.DocTableau. (DocTableau.java:90) at
ptolemy.vergil.basic.GetDocumentationAction.showDocAttributeTableau(GetDocumentationAction.java:442) at
ptolemy.vergil.basic.GetDocumentationAction.showDocumentation(GetDocumentationAction.java:161) at
ptolemy.vergil.basic.GetDocumentationAction.actionPerformed(GetDocumentationAction.java:120) at
javax.swing.AbstractButton.fireActionPerformed(AbstractButton.java:1882) at
javax.swing.AbstractButton$Handler.actionPerformed(AbstractButton.java:2202) at
javax.swing.DefaultButtonModel.fireActionPerformed(DefaultButtonModel.java:420) at
javax.swing.DefaultButtonModel.setPressed(DefaultButtonModel.java:258) at javax.swing.AbstractButton.doClick(AbstractButton.java:334) at
javax.swing.plaf.basic.BasicMenuItemUI.doClick(BasicMenuItemUI.java:1050) at apple.laf.CUIAquaMenuItem.doClick(CUIAquaMenuItem.java:119)
at javax.swing.plaf.basic.BasicMenuItemUI$Handler.mouseReleased(BasicMenuItemUI.java:1091) at
java.awt.Component.processMouseEvent(Component.java:5602) at javax.swing.JComponent.processMouseEvent(JComponent.java:3129) at
java.awt.Component.dispatchEvent(Component.java:5367) at java.awt.Container.dispatchEvent(Container.java:2010) at
java.awt.Component.dispatchEventImpl(Component.java:4068) at java.awt.Container.dispatchEventImpl(Container.java:2068) at
java.awt.Component.dispatchEvent(Component.java:3903) at java.awt.LightweightDispatcher.retargetMouseEvent(Container.java:4256) at
java.awt.LightweightDispatcher.processMouseEvent(Container.java:3936) at java.awt.LightweightDispatcher.dispatchEvent(Container.java:3866) at
java.awt.Container.dispatchEventImpl(Container.java:2054) at java.awt.Window.dispatchEventImpl(Window.java:1801) at
java.awt.Component.dispatchEvent(Component.java:3903) at java.awt.EventQueue.dispatchEvent(EventQueue.java:463) at
java.awt.EventQueue.dispatchEventImpl(EventQueue.java:269) at
java.awt.EventQueue.dispatchEventImpl(EventQueue.java:190) at
java.awt.EventQueue.dispatchEventImpl(EventQueue.java:184) at
java.awt.EventQueue.dispatchEventImpl(EventQueue.java:176) at java.awt.EventQueue.run(EventQueue.java:110)
Caused by: ptolemy.data.expr.UndefinedConstantOrIdentifierException: The ID ID is undefined. at
ptolemy.data.expr.ParseTreeEvaluator.visitLeafNode(ParseTreeEvaluator.java:674) at
ptolemy.data.expr.ASTPtLeafNode.visit(ASTPtLeafNode.java:125) at
ptolemy.data.expr.ParseTreeEvaluator._evaluateChild(ParseTreeEvaluator.java:1310) at
ptolemy.data.expr.ParseTreeEvaluator._evaluateAllChildren(ParseTreeEvaluator.java:1264) at
ptolemy.data.expr.ParseTreeEvaluator.visitSumNode(ParseTreeEvaluator.java:1116) at
ptolemy.data.expr.ASTPtSumNode.visit(ASTPtSumNode.java:128) at
ptolemy.data.expr.ParseTreeEvaluator.evaluateParseTree(ParseTreeEvaluator.java:104) at
ptolemy.data.expr.Variable._evaluate(Variable.java:1644) ... 36 more Caused by: ptolemy.data.expr.UndefinedConstantOrIdentifierException: The ID
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javax.swing.plaf.basic.BasicMenuItemUI.doClick(BasicMenuItemUI.java:1050) at apple.laf.CUIAquaMenuItem.doClick(CUIAquaMenuItem.java:119)
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java.awt.EventQueue.dispatchEventImpl(EventQueue.java:190) at
java.awt.EventQueue.dispatchEventImpl(EventQueue.java:184) at
java.awt.EventQueue.dispatchEventImpl(EventQueue.java:176) at java.awt.EventQueue.run(EventQueue.java:110)
```

#4 - 01/10/2010 11:03 PM - Christopher Brooks

Fixed. Changed DocAttribute.description from a StringParameter to a StringAttribute so that Kepler does not report errors when displaying
documentation. It is unclear why this fails for Kepler, but works for Ptolemy. An addition to moml.filter.PropertyClassChanges filters for this change.

Fortunately, only three demos required changes.

ptolemy/domains/de/demo/Clock/Clock.xml
ptolemy/domains/modal/demo/Case/Case.xml
ptolemy/actor/lib/hoc/demo/Case/Case.xml

The changed Java files were:

ptolemy/vergil/basic/KeplerDocumentationAttribute.java
ptolemy/vergil/basic/DocAttribute.java
ptolemy/vergil/actor/DocManager.java
ptolemy/moml/filter/PropertyClassChanges.java

Note that this change means that models that have DocAttributes with the description parameter set will be marked as modified by the filter. Thus, the user will be prompted for save on close.

#5 - 03/27/2013 02:27 PM - Redmine Admin

Original Bugzilla ID was 4547