

## Kepler - Bug #5557

### Replace hardcoded path separator with File.pathSeparator

11/29/2011 11:58 AM - dhogan dhogan

<b>Status:</b>	New	<b>Start date:</b>	11/29/2011
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Derik Barseghian	<b>% Done:</b>	0%
<b>Category:</b>	build system	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	Unspecified	<b>Spent time:</b>	0.00 hour
<b>Bugzilla-Id:</b>	5557		
<b>Description</b>			
The org.kepler.build.project.Classpath class uses ":" rather than File.pathSeparator. It will display incorrectly on Windows without the fix.			

#### History

##### #1 - 11/29/2011 12:44 PM - dhogan dhogan

Added a few more fixes. The importance should be bumped to normal because it's no longer just a cosmetic fix. When I run 'ant javadoc' on Windows, it fails immediately due to the path separator problem.

The attached patch fixes it with a few other changes: point to Oracle/JRE 1.6.x and fix a few typos. I'm getting 522 warnings and 3 errors when running javadoc against r29009/trunk on Windows. Could someone test on the platform that normally generates the javadoc to see if that's the same?

##### #2 - 01/05/2012 01:16 PM - Derik Barseghian

Thanks for your contribution. Committed to trunk at r29119.  
ant javadoc still needs testing on Windows, see comment#1, leaving open.

##### #3 - 01/05/2012 05:24 PM - Derik Barseghian

On linux w/ java 1.6 I get 8 errors, 626 warnings, and the process ends with an IOException:

```
[create-javadoc] 8 errors
[create-javadoc] 626 warnings
[create-javadoc] IOException: java.io.IOException: Subprocess "javadoc -d /home/barseghian/dev2/kepler.modules/javadoc -sourcepath /home/barseghian/dev2/kepler.modules/sensor-view/src:/home/barseghian/dev2/kepler.modules/runtimemonitor/src:/home/barseghian/dev2/kepler.modules/reporting/src:/home/barseghian/dev2/kepler.modules/workflow-run-manager/src:/home/barseghian/dev2/kepler.modules/provenance/src:/home/barseghian/dev2/kepler.modules/tagging/src:/home/barseghian/dev2/kepler.modules/workflow-scheduler-gui/src:/home/barseghian/dev2/kepler.modules/outreach/src:/home/barseghian/dev2/kepler.modules/r/src:/home/barseghian/dev2/kepler.modules/loader/src:/home/barseghian/dev2/kepler.modules/actors/src:/home/barseghian/dev2/kepler.modules/opensdap/src:/home/barseghian/dev2/kepler.modules/dataturbine/src:/home/barseghian/dev2/kepler.modules/ecogrid/src:/home/barseghian/dev2/kepler.modules/authentication-gui/src:/home/barseghian/dev2/kepler.modules/gui/src:/home/barseghian/dev2/kepler.modules/module-manager-gui/src:/home/barseghian/dev2/kepler.modules/authentication/src:/home/barseghian/dev2/kepler.modules/repository/src:/home/barseghian/dev2/kepler.modules/job/src:/home/barseghian/dev2/kepler.modules/io/src:/home/barseghian/dev2/kepler.modules/ssh/src:/home/barseghian/dev2/kepler.modules/data-handling/src:/home/barseghian/dev2/kepler.modules/sms/src:/home/barseghian/dev2/kepler.modules/component-library/src:/home/barseghian/dev2/kepler.modules/util/src:/home/barseghian/dev2/kepler.modules/event-state/src:/home/barseghian/dev2/kepler.modules/core/src:/home/barseghian/dev2/kepler.modules/common/src:/home/barseghian/dev2/kepler.modules/module-manager/src:/home/barseghian/dev2/kepler.modules/configuration-manager/src:/home/barseghian/dev2/kepler.modules/ptolemy/src:/home/barseghian/dev2/kepler.modules/build-area/src -classpath ptolemy/lib/guava.jar:/home/barseghian/dev2/kepler.modules/util/lib/jar/commons-logging-1.1.jar:/home/barseghian/dev2/kepler.modules/build-area/lib/ant.jar -tagletpath /home/barseghian/dev2/kepler.modules/build-area/target/kepler-tasks.jar -exclude ptodb:ptolemy.actor.lib.excel:ptolemy.actor.lib.io.comm:ptolemy.actor.lib.jai:ptolemy.actor.lib.jmf:ptolemy.actor.lib.joystick:ptolemy.actor.lib.jxta:ptolemy.actor.lib.logic.fuzzy:ptolemy.actor.lib.mail:ptolemy.actor.lib.opencv:ptolemy.actor.lib.reactable:ptolemy.actor.lib.x10:ptolemy.actor.ptalon:ptolemy.app.s:ptolemy.backtrack:ptolemy.backtrack.eclipse:ptolemy.backtrack.test:ptolemy.cg:ptolemy.codegen:ptolemy.copernicus:ptolemy.distributed:ptolemy.domains.giotto:ptolemy.domains.gr:ptolemy.domains.gro:ptolemy.domains.jogl:ptolemy.domains.ptides:ptolemy.domains.ptinyos:ptolemy.domains.wireless:ptolemy.homer:ptolemy.moml.jxta:ptolemy.plot.servlet:ptolemy.vergil.basic.export.itextpdf:ptserver -subpackages org.com.util:ptolemy -link http://docs.oracle.com/javase/6/docs/api/ -linksource -author -breakiterator -use -quiet -tag Pt.AcceptedRating -tag Pt.ProposedRating -tag category.name -tag UserLevelDocumentation -tag created -tag entity.description -tag status -taglet org.kepler.build.RatingTaglet -J-Xmx768m" returned 1
```

On Windows XP w/ java 1.7, after 146 minutes I finish with 556676 errors, and the IOException error. Something's clearly very wrong here -- most of these errors seem to be to do w/ illegal characters. I disabled my system bell just to get through this, most/all of these errors cause a beep.

##### #4 - 01/09/2012 12:01 AM - Christopher Brooks

I took a look at the javadoc problem under Linux and there were a number of problems.

- The -taglet parameter named org.kepler.build.RatingTaglet, but that class does not exist. I set -taglet to doc.doclets.RatingTaglet. I'm not about this.

- I was seeing errors like  
java.lang.ClassCastException: com.sun.tools.javadoc.ClassDocImpl cannot be cast to com.sun.javadoc.AnnotationTypeDoc

The net said that this would occur if a class had annotations but the jar file that contained the annotations was not included in the classpath to javadoc. So, I added ptolemy/src/lib/junit-4.8.2.jar and ptolemy/src/lib/JUnitParams-0.3.0.jar to CreateJavadoc. I don't understand why I need to add these jar files individually. When javadoc is run, the classpath should include all the jar files for all the modules.

I'm still getting 2 errors and a message about the subprocess returning 1 under Linux.

Under Windows, I was getting lots of warnings and beeps as well. I believe the problem is that the jar files are getting processed as source? Probably the fix is to exclude the .jar files somehow.

I've found that javadoc does not work very well with large argument strings. Ant has a way to use files instead of large argument strings. I recently updated the javadoc command in ptll/build.xml. That file is created by running (cd \$PTII;./configure).

#### #5 - 01/09/2012 03:02 PM - dhogan dhogan

This is a bit of a hack since it requires you to compile doc.doclets.RatingTaglet first. It does generate all of the javadoc though.

There were two main problems with the javadoc:

- Missing jars which caused packages warnings
  - Fixed by using the compile classpath for every module involved
- Taglet class not found and the wrong name
  - Build doc.doclets.RatingTaglet in ptolemy now
  - Point to Ptolemy's classes directory rather than kepler-tasks.jar

This patch isn't ideal because it's pointing to ptolemy classes that have to be built first. It's down to 0 errors and 397 warnings (all related to invalid javadoc tag usage or Oracle proprietary APIs).

I generated the javadocs by running "ant force-ptolemy compile ; ant javadoc".

#### #6 - 01/09/2012 05:50 PM - Christopher Brooks

I folded in d. hogan's path (Thanks!)  
One change that I made was that we now look for tools.jar by getting the java.home JDK property.

Unfortunately, I still can't run 'ant javadoc' under Windows, I get messages like:

```
--start--  
Loading source files for package org.ecoinformatics.seek.R...
```

```
C:\Users\Administrator\src\kepler\r\target\classes\org\ecoinformatics\seek\R\RExpression2.class:62: error: unmappable character for encoding Cp1252  
--end--
```

The above message can be reproduced by creating a file called "doit" that contains:

```
--start--  
CLASSPATH="C:/Users/Administrator/src/kepler/r/target/classes" javadoc -sourcepath "C:/Users/Administrator/src/kepler/r/src/" -subpackages org  
--end--
```

and then starting up Cygwin and running  
sh doit

This is with Windows Java 1.7.0:  
\$ java -version  
java version "1.7.0"  
Java(TM) SE Runtime Environment (build 1.7.0-b147)  
Java HotSpot(TM) 64-Bit Server VM (build 21.0-b17, mixed mode)

If I use the javadoc from Java 1.6.0\_26, the problem goes away.

I submitted a bug to Oracle, we will see if anything comes of it.

#### #7 - 03/27/2013 02:30 PM - Redmine Admin

Original Bugzilla ID was 5557

## Files

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fix_classpath_char.diff	749 Bytes	11/29/2011	dhogan dhogan
fix_classpath_char_v2.diff	3.56 KB	11/29/2011	dhogan dhogan
temp_fix_javadoc.diff	6.42 KB	01/09/2012	dhogan dhogan