Kepler - Bug #4360

Kepler gets slow under XP

08/31/2009 04:33 PM - Oliver Soong

Status:	New		**Start date:**	08/31/2009
Priority:	Normal		**Due date:**	
Assignee:	Chad Berkley		**% Done:**	0%
Category:	general		**Estimated time:**	0.00 hour
Target version:	2.X.Y		**Spent time:**	0.00 hour
Bugzilla-Id:	4360			

Description

I've been holding off on this, because it's hard to demonstrate, OS-specific, and quite difficult to debug, but it's getting to be problematic. Kepler slows significantly under XP. It's noticeable following the example of http://bugzilla.ecoinformatics.org/show_bug.cgi?id=4359. This particular bug may exacerbate the problem, but it has been noticeable in other unrelated situations. I'd quote duration statistics, but much of the time is spent in the Preinitializing and Wrapping Up which aren't included in the duration.

I'd argue for the importance of this for the release. My understanding is that most devs use macs, while much of our user-base (at least in South Africa, but likely elsewhere as well) uses XP.

It's possible this is related to the Java VM version, but I'm not certain about that.

History

#1 - 09/21/2009 09:54 AM - Christopher Brooks

Here at Berkeley, lots if people use Ptolemy under XP. I run Ptolemy regularly under Windows 2003 Server R2.

The most likely cause of slowness would be running out of memory. Memory is set by invoking Kepler with the -Xmx option. I believe Kepler is being invoked with -Xmx512M, which means a maximum of 512 megabytes are allocated.
Increasing this to -Xmx1500M might help. Under 32bit Windows, there is a
maximum of between 1600M and 1700M.

One thing to check for is how much memory is being used by doing
Tools -> Check System Settings

Another thing is to use a profiling tool, see
http://ptolemy.eecs.berkeley.edu/ptolemyII/ptIIlatest/ptII/doc/coding/performance.htm

Someday, I'll take a look at http://bugzilla.ecoinformatics.org/show_bug.cgi?id=4359

#2 - 09/22/2009 10:51 AM - Christopher Brooks

Edward wrote:

> Actually, the most common source of slowness I've seen is when you
> plot very large data sets. The plotter slows down dramatically when
> you give it a lot of data...

#3 - 03/27/2013 02:26 PM - Redmine Admin

Original Bugzilla ID was 4360