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[Repast](#)

The Repast Suite is a family of free agent-based modeling libraries.

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Re: [Repast-interest] Problems with running Repast from another Java application

[Re: [Repast-interest] Problems with running Repast from another Java application](#)
From: Nick Collier <nick.collier@ve...> - 2015-03-06 14:53:22
Attachments: [text/plain](#)

I've gotten this to work on the JZombies example. The solution is to put only the "Main" class that launches RepastMain on the launcher class path. The remainder of the model code cannot be on the launcher classpath. So, I made a new source folder that contains just the Main class (attached below) and had this compile into a different bin folder. You can set different output folders for each source folder by configuring the build path:

Click "Allow Output folders for source folders" and then click on the output folder under the source folder entry and then edit.

The classpath for the launcher should contain the output folder for the "main" source folder (i.e. bin_main) above, but not the output folder (i.e. bin) for the rest of the model code. My launcher classpath then looks like:

As for why all this is necessary, Simphony uses its own classloader to load all its various components including GUI etc., as well as the user's model code. Consequently, if the user's model code is on the launcher classpath, and the model code refers to any Simphony classes, those cannot be found as

==the launcher classpath doesn't search its child classloaders (e.g. the simphony classloader) for classes. As for why we use a Simphony classloader, it makes some internals much easier although that is less the case now with more recents VMs.==

==Nick==

On Mar 5, 2015, at 9:42 AM, marcus.mueller@... wrote:

> Hi Jorge,
>
> thank you for your answer.
>
> Hope that I will get this managed, too.
>
> To answer your questions:
> 1) I'm able to run my simulation in the standard way. This means that the model runs by using the '<model name> model' run configuration in eclipse.
>
> 2) For my purposes, I used the code given under "2.7 How can I run Repast Simphony from another Java application?". I did not changed anything in the sample code from the FAQ.
> If I understand the code within the Test*_2-classes in the right way, it will provide me with a custom runner that do not use the repast GUI. Am I right? What I need is to start the standard repast GUI by my own application.
>
> 3) I did not add any 3rd party libs.
>
> 4) Yes, I run my code from inside eclipse.
>
> 5) My build path contains:
> - no other projects
> - Groovy DSL support lib
> - Groovy Libraries
> - JRE System Libs (tried with Java 1.7 and 1.8)
> - Repast Simphony Development Libraries
>
> 6) My class path contains
> - JRE System lib (tried with Java 1.7 and 1.8)
> (and for user entries)
> - my project
> - Repast runtime lib (C:\Program Files\RepastSimphony-2.2\eclipse\plugins\repast.simphony.runtime_2.2.0\bin)
> - All jars in C:\Program Files\RepastSimphony-2.2\eclipse\plugins\repast.simphony.runtime_2.2.0\lib
>
> Hope this will help you to give me an advice about the right configuration to get the thing running.
>
> Best regards,
> Marcus
>
>
>
> Jorge <jcald1@...>
> 05.03.2015 05:26
>

> An
> repast-interest@...
> Kopie
> Thema
> Re: [Repast-interest] Problems with running Repast from another   Java
application
>
>
>
>
>
> Hi Marcus,
>
> I also had numerous classpath problems running Repast Simphony from another
> program, but I got those worked out. Can you please tell me:
>
> 1) Can you run the same simulation with the GUI (RepastMain)? I found that
> this is always the first thing to check.
> 2) Did you change anything in the sample code from the Repast FAQ? Try
> using these:
> http://repast.sourceforge.net/docs/TestRunner_2.java
> and
> http://repast.sourceforge.net/docs/TestMain_2.java
> 3) Did you add any third party libraries to either your simulation code or
> to your custom runner application?
> 4) Are you running from inside Eclipse?
> 5) What's in your build path for your application and your simulation code
> (projects and JARs)?
> 6) If you're running in Eclipse, can you go to your run configuration for
> the simulation you're using in the dependency, click on the Classpath tab?
> What do you have in there?
>
>
>
> --
> View this message in context: http://repast.10935.n7.nabble.com/Problems-
with-running-Repast-from-another-Java-application-tp10806p10812.html
> Sent from the repast-interest mailing list archive at Nabble.com.
>
> --

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