How to use JDesigner in Simulation Mode.

The most recent versions of JDesigner can be used to carry out time course simulations of models from within JDesigner itself.

To carry out a simulation using JDesigner you must download the following components:

1. Download the Systems Biology Workbench from:
   http://www.sbw-sbml.org/).
   Install SBW

2. Download Jarnac from http://www.sys-bio.org
   Install Jarnac

3. Download JDesigner from http://www.sys-bio.org
   Install JDesigner

Once you have installed the three main components you need to register Jarnac with SBW. To do this carry out the following operation:

1. Start up Jarnac Interactive. This will bring up the main Jarnac console window.
2. Select the menu marked, 'Options' and select the menu item 'Register with SBW'.
3. Quit Jarnac by either typing 'quit' at the console or selecting 'Exit' from the file menu.

Now you can try to do an actual simulation. The following instructions may change at a future date depending on usability studies on the JDesigner interface. I am not entirely happy with the way things are, so it may change in the future.

1. Start JDesigner
2. The first time you start JDesigner you need to ask it to connect to the simulator. Do this by going to the 'Actions' menu and selecting the 'Connect to Simulator' option.
3. If a connection to Jarnac is successful you should see a text notice in the status bar (bottom of JDesigner screen) indicating a successful connect). If you close down JDesigner, Jarnac will remain running in the background so that next time to start JDesigner you do no need to make a manual connection (Unless you reboot your machine).
4. You are now ready to carry out a simulation.

To carry out a simulation try the following:

1. Load the model oscli.xml using the load button on the toolbar.
2. Start the graph panel by clicking on graph
3. Start the time course module by clicking on ‘Time course’ (under Analysis toolbar button).
4. To initiate a simulation, click on the run button that you can see on the time course panel.
5. You should see a simulation run be displayed in the graph panel