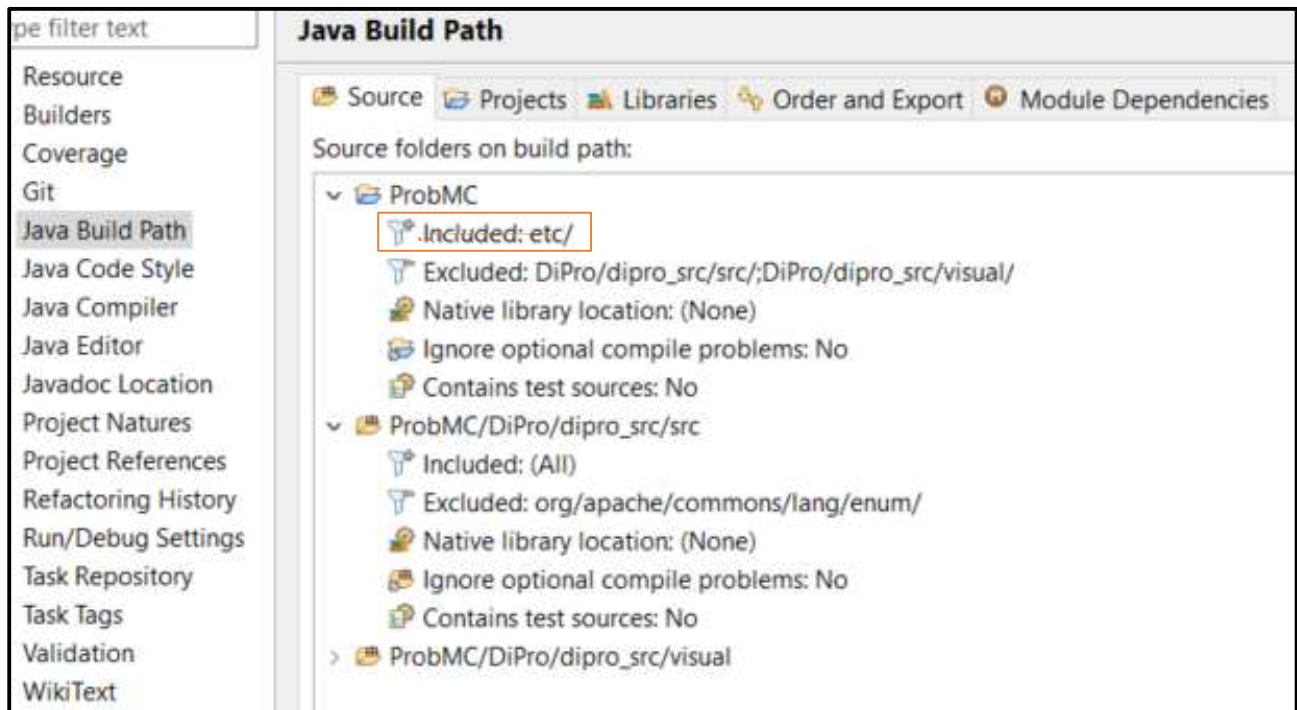# Instructions on How to Compile and Run DiPro
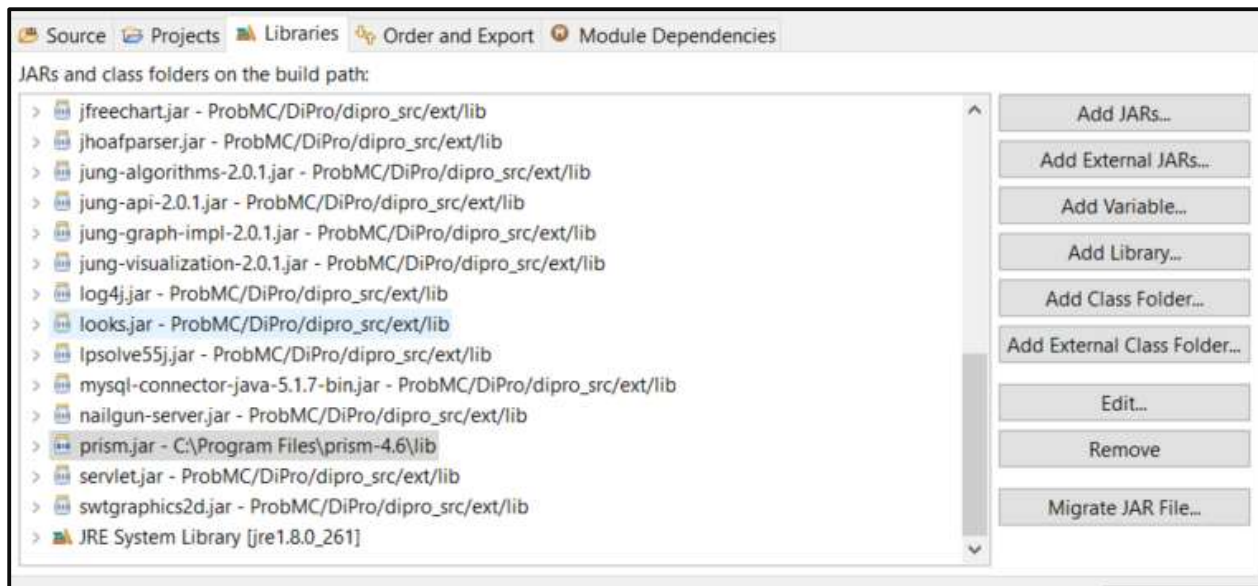
Compiling

To configure the build path for the program in eclipse, right click on the folder in the package explorer. Then, go Build Path -> Configure Build Path. That should bring up Java Build Path. The build path settings should mimic the settings below.
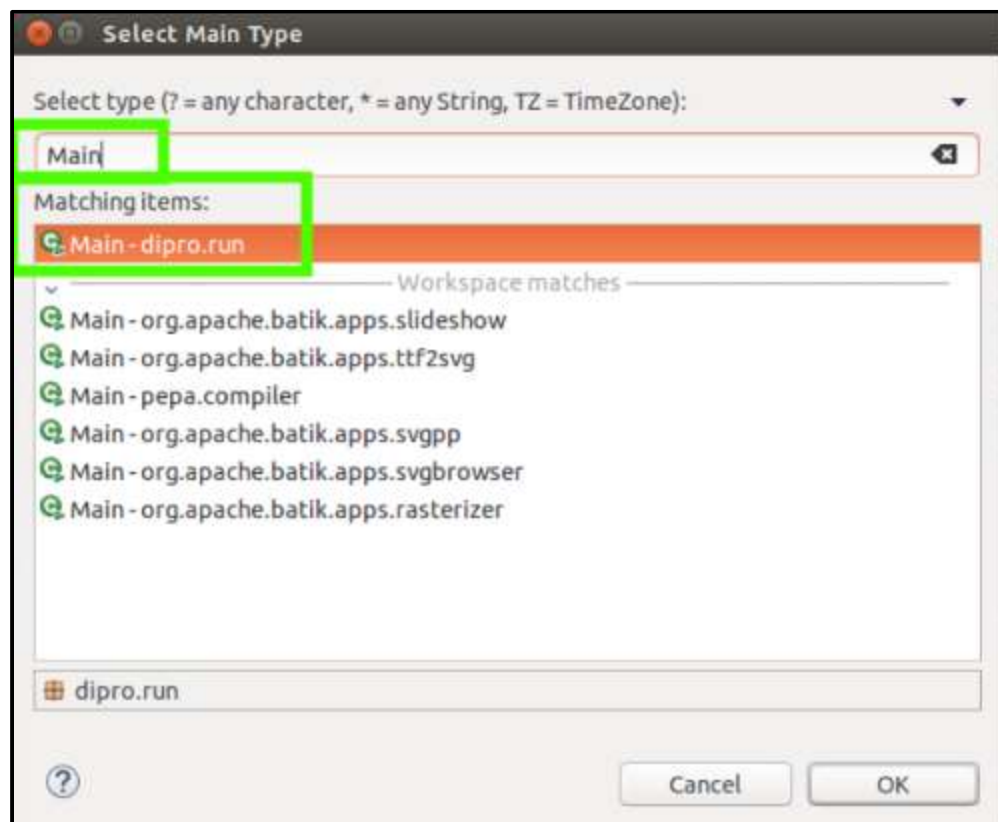

Some things to note:

- If ProbMC doesn't show up, click on Add Folder and then check the checkbox next to ProbMC. That should solve it.
- Under ProbMC, the Included: etc/ is important because it allows the program to find the files for startup easily.

In the window, click on the Libraries tab. If the prism.jar is not there, click on Add JARs and add the PRISM file from where you store the version of PRISM on your computer.
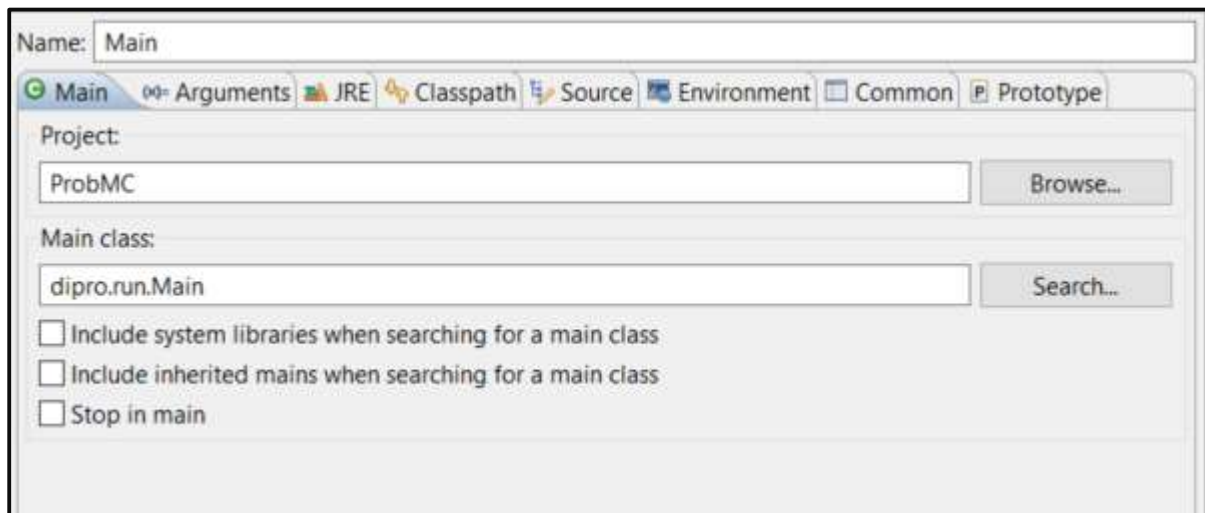
Running

In Eclipse near the run button, there is a triangle that produces a dropdown. From that drop down, click on run configurations. Double click on Java Application from the left. Two run configurations need to be made. The first will be Main. Below shows what should be inputted.

After that, the new configuration should be made.

There is a tab next to the Main called arguments. Click on that. This will allow the program to know which files to run. Below shows how to run the program using the XBF algorithm. It goes:

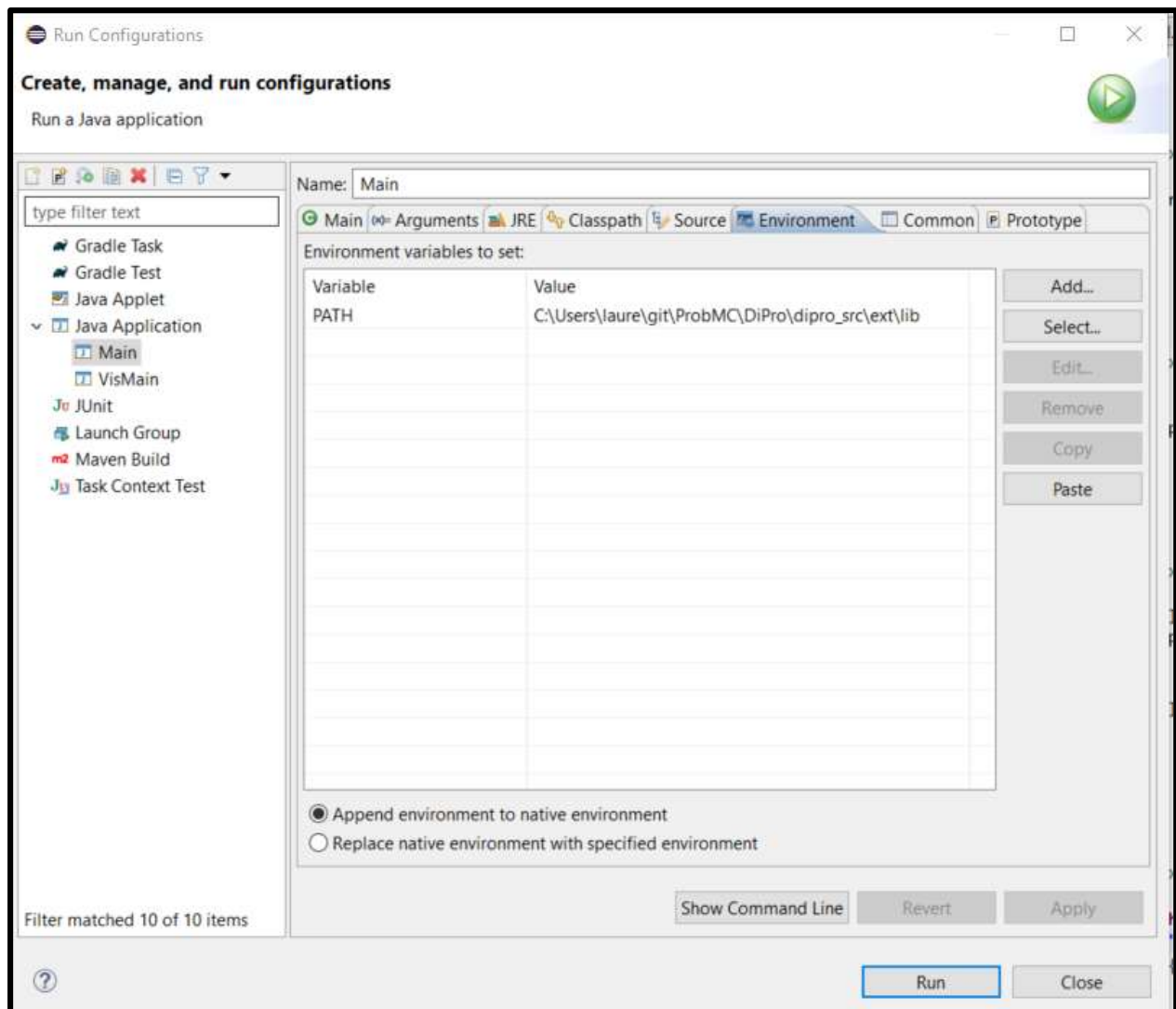-prism nameOfModel.sm nameOfProperty.csl -xbf

From there, click on the environment tab. Click on Add. The variable's name depends on what operating system you are running on. The appropriate path name is listed below.

Linux – LD_LIBRARY_PATH

Mac – LYLD_LIBRARY_PATH

Windows – PATH

The value is the location of prism.jar file on your machine. For me, it was in the lib folder in DiPro.
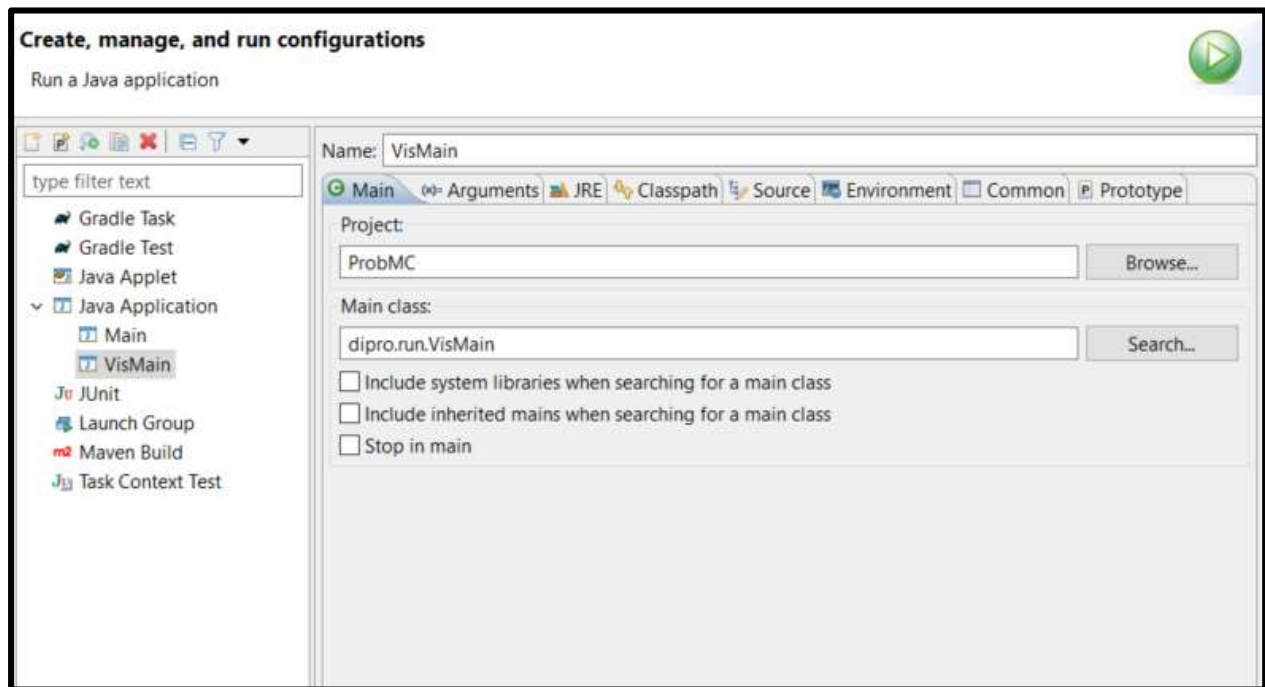

After these steps are complete, it's possible to run the program from the console. Some things to note:

- Make sure the .sm and .csl file you are trying to run are in the project folder and is typed correctly into the arguments

- If there is a "Launching VisMain or Main" has encountered a problem. Click on the project folder and try running it again.
- Sometimes, Eclipse will generate another run configuration and that causes an error. If that happens, go into run configurations and delete it. The only run configurations should be Main and VisMain.

To set up the GUI, another run configuration must be made called VisMain. Follow a similar process to setting up the new run configuration for Main. The result should look similar to the image below.

For this configuration, there aren't any arguments. Although, the environment variable must be created as well. This will have the same name and value as the environment variable for the Main run configuration.

Now that the run configurations are set, to run DiPro, click on the triangle next to the run button to show a drop down, then click on Main. Click Proceed to proceed with the errors and then the program should run in the console window in Eclipse.