Assembly Programming Setup

This document details the required setup you need to complete in order to use the as255 and m68000 programs required for this course. The “Log-in” section will apply each time you need to use the m68000 program. The “Setting PATH variables” section will only need to be completed once per semester.

Log-in:

The m68000 program (EGTAPI) is only available on the Solaris platform. In order to complete projects with m68000 (EGTAPI), you must login remotely to solar.mathcs.emory.edu or compute.mathcs.emory.edu using your Emory ID. (While below I will use solar in all examples, understand you could also use compute if you wanted to.)

Use this command to remote login to solar.mathcs.emory.edu after you have logged in to a work station in the MathCS lab:

    ssh -X solar.mathcs.emory.edu

If you wish to work from your laptop (running either Windows or OSX) in your dorm or apartment, you will need to follow these instructions for remote access to the Math/CS systems.

Setting PATH Variables:

1. Before you can use the m68000 simulator, you must set up the PATH variable to include the as255 and m68000 programs.

   After you are logged into solar or compute, execute the following command once from the UNIX command prompt:

       ~cs255000/bin/add.kshrc

   Logout and log back in. Now you should be able to use the as255 and m68000 commands. To verify, type these command after you log back in:

       >> type as255
       >> type m68000

   You should get as answers: /home/cs255000/bin/as255 or /usr/local/bin/as255 and /home/cs255000/bin/m68000. If you get a "not found" message for any of the above, let Dr. Summet know or come to office hours.

1. Next you need to set-up a reference to your cs255 directory.

   Move into your home directory (if you are not there already) and list the files in it. You can do this with the command:

       cd; ls
and look for a directory named “cs255” (Just like you would see when you log-in to lab0z).

If you do NOT see the directory, execute the command:

   ln -s ~/support/linux/cs255 ~/cs255

Type the `ls` command again and you should see your cs255 directory.