

## **How to access the Computer Science compute servers from a home PC and run Miranda programs remotely.**

**Notes by R. A. Frost (revised September 2011)**

You need to begin by acquiring and installing the SSH Secure Shell Remote Login software. You get this from Information Technology Services at the University web site:

[www.uwindsor.ca/its/downloads](http://www.uwindsor.ca/its/downloads)

Begin by typing ssh into the search field, then press the search button on the right.

Follow the instructions to download the SSH software and save the software on your PC. Then execute the .exe file. The software will be installed and you should have two icons on your desktop. One called “SSH Secure File Transfer” and the other “SSH Secure Shell Client”

**After you have installed SSH, you need to change the settings so that .m files are transferred correctly. To do this open the SSH file transfer client window, then go to “edit” then “settings”. Then go to “File Transfer” “mode” on the left hand side. Then click on the small box just left of the red tick mark on the right hand side of the window. Then add m to the file extensions to be recognized as ASCII type. Then save. This will ensure that files created by Wordpad and Notepad will be transferred to the Sol server with no extra formatting characters.**

1) Activate the SSH Secure File Transfer by clicking on it. When the window opens, click on the “Quick Connect” bar. Enter the following for the host name:

```
cs.uwindsor.ca
```

Then enter your University of Windsor user name, then press the Connect button.

If you make a successful connection, then you will be asked to enter your University of Windsor password. If successful, your University of Windsor file system will appear on the right part of the window. You can now transfer copies of files from your PC to the Sol server, and vice versa, by simply dragging and dropping.

2) Now go to some directory on your PC and create a new textfile. Rename it as “test.m” (with no .txt at the end). Edit the file using Notepad or Wordpad and add the following to the file

```
hello = "hi there"
```

save the file.

Now go back to the SSH File Transfer window and click on the left side until you move to the directory containing the file “test.m”. Then drag the file test.m over to the right side of the SSH window to copy it onto your file system on Sol. Now check the name of the file on the right hand side (the server side) and make sure that it finishes with .m If it finishes with .m.txt then you will need to rename it by clicking on it, picking rename from the menu and then removing the .txt extension.

3) Now go to the icon bar at the top of the SSH Secure File Transfer window and click on the icon consisting of a white square with blue dots on it (the leftmost icon of the two with blue dots). This will open an SSH Secure Shell Client window and logo you onto the Sol server automatically. You should see `sol:~>`

Type `mira test.m` This starts the Miranda programming environment and loads the file called test.m

Now you can run your program by typing `hello` at the Miranda prompt.

You can add more programs to the file test.m on your home PC , using the Notepad or Wordpad editors. Then save. Then drag the updated file over to Sol using the SSH File Transfer window. Then you need to reload the updated file into the Miranda programming environment. To do this type `/f %` at the Miranda prompt. This reloads and recompiles the file test.m You can now test your new programs in the Miranda environment.

Later on, when you start to use directories and keep different files in different directories on Sol, you need to learn some basic Unix commands to move to the correct directory after you have used the SSH Secure Shell Client software to access Sol.