

**Accessing Comp. Sci. servers from home PC and run Miranda programs remotely.
Notes by R. A. Frost (revised September 9th 2014)**

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 “Software depot’ web site: <https://portal.uwindsor.ca:4445/sd/login>

Begin by logging in using your ID and password. Then type `ssh` into the search field, then press the search button on the right.

Follow instructions to download and save the SSH 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” (a picture of a yellow folder with blue dots on the top left hand corner) and the other “SSH Secure Shell Client” (a picture of a white/grey folder with blue dots on the top left hand corner)

After you have installed SSH, you need to change the settings so that .m files are transferred correctly. To do this click on the “SSH Secure file transfer” icon, then go to “edit” then “settings”. Then click on “File Transfer - mode” near the bottom of the left hand side menu (NOT the “file transfer – remote favorites”) (you may have to scroll down the menu). Then click on the small box just left of the red X on the right hand side of the window. Then add the letter `m` to the list of “ASCII extensions”. Then press OK. Then click on “File” at top left, then click on “save settings”. This will ensure that files created by Wordpad and Notepad will be transferred to the Sol server with no extra formatting characters.

1) Now click on the “Quick Connect” bar on the upper left of the SSH window. A window will appear with four text entry rows. Enter the following for the host name:
`cs.uwindsor.ca`

Then enter your University of Windsor user name in the second row, port number 22 in the 3rd row, and set the 4th row to <Profile Settings>. 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 (see next page).

2) Now create a directory on your PC called “60_100_programs” by clicking on a blank space on the PC, choose “new”, then choose “folder”. A folder will appear on your desktop. Click on the folder and choose “rename” from the drop down menu, then click

on the word “new folder” at the bottom of the folder and delete the characters, then type “60_100_programs” as the new name of the folder.

3) Now open the 60_100_programs directory by clicking on it. Create a new “Text Document” by clicking on a blank space in the folder, choose “new” from the menu, and then choose “Text Document”. Rename the text document as “test.m” (with no .txt at the end).

4) Now click on the renamed file and choose “Open” or “Open with..” and open with either wordpad or Notepad. Then add the following line to the file

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

then save the file, by clicking on “file” (top left) and then choose “save” from the drop down menu.

5) Then go back to the SSH Secure File Transfer window and click the “refresh’ icon (two arrows, one above the other, near the left hand corner), this loads the most recent files. Now click on the list of directories and files in the left hand pane of the window until you move into 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 the CS server. Now check the name of the file on the right hand side (the server side) and make sure that it finishes with .m

6) 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 log you onto the Sol server automatically. You should see something like youruserid@servername:~\$

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 go to the SSH Secure File Transfer window and click the “refresh’ icon (two arrows, one above the other, near the left hand corner), this loads the most recent files. Then, drag the updated file over to Sol using the SSH File Transfer window. Then go to the SSH Secure Shell window and 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 a CS server, 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 the server.