

Procedure for creating your ROM module from your C/ASM code

1. Copy the following files into your folder -
 - a. fixhex
 - b. a.out
 - c. i8051_mkr.c
 - d. lab4.hex (your current hex file which was created from your c code after you build it in KEIL Microvision2 .
 - e. lab4.c
2. Open Xwin-32 interface
3. Login to Linux machines via PUTTY. When you open PUTTY; just type in the following command in the taskbar- **rc(01-23)xece106.managed.mst.edu**. This will open an interface to the linux machines where you can type in your password and now you will be in your network home directory.
4. You can now navigate into your present folder where you have copied all the above files by typing in **cd** followed by the folder name. You can view the contents of your folder by typing the command **ls**.
5. Now type at the bash prompt **gcc i8051_mkr.c** This compiles or builds the c code.
6. Now type in **chmod a+x fixhex**
7. And then type in **./fixhex lab4.hex** (instead of lab4.hex you can have your own hex file named for your current project in keil).
8. This creates a new file of your lab4.hex called **fix1.hex** which has no new line characters.
9. Now run **a.out fix1.hex**
10. This will create your ROM module i8051_ROM.vhd.
11. Now you can copy this ROM module to your Quatus lab4 project, make the symbol and integrate it with the 8051 symbol as shown in the manual for lab4.