Additional Instructions on Lab 1

You will need a SEASnet account for this class. Please contact the SEASnet help desk for questions related to the account.

Here are some instructions:

First, to transfer the lab file datalab-handout.tar (download from Courseweb Material) from your machine to the school machine, do the followings:

1) On Linux/MAC, open the terminal. Type:

scp datalab-handout.tar your_seasnet_login@lnxsrv01.seas.ucla.edu:~ It will prompt the password again. Enter your seasnet password. **Note:** You need to specify the correct path for datalab-handout.tar. If the file is in **/home/joe** for example, then you enter

scp /home/joe/datalab-handout.tar your_seasnet_login@lnxsrv01.seas.ucla.edu:~

2) On windows, download winscp **http://winscp.net/download/winscp510setup.exe**
After installing winscp, open it.
Enter: **lnxsrv01.seas.ucla.edu** in "Host name"
your seasnet login in "User name"
your seasnet password in "Password"
3) Winscp will then show the screen with two windows. The one on the left is directories on your machine, and the one on the right is directories on school machine.
4) Now you need to select **datalab-handout.tar** on your left window (find it in the folder where it is stored), then press F5. This will copy the file to the school machine. Now you should have datalab-handout.tar on your home directory on school Linux machine (I assume you transfer it to the home directory).

After transferring the file, you need to log in the school machine to work on the lab. Here are the steps:
1) If you work directly on one of the Linux machines on the 4th floor of Boelter Hall, all you need to do is to first open the "terminal" on that machine.
2) If you work remotely using your computer, you need to connect to one of the school machines.
- On Linux/MAC, open the terminal. Type: **ssh your_seasnet_login@lnxsrv01.seas.ucla.edu** It will prompt "password: ". Now, just type in your SEASnet password.
- On Windows, download putty **http://the.earth.li/~sgtatham/putty/latest/x86/putty.exe** Open it. Enter: **your_seasnet_login@lnxsrv01.seas.ucla.edu** into Hostname, then click Open. Then enter your password.

Now, you can follow the instructions from the lab handout (datalab.pdf on courseweb assignment). You won't need to set up any environment to compile or run the code.

I summarize additional steps here. You need to issue the following commands
1) tar xvf datalab-handout.tar (to untar the file)
2) cd datalab (go into datalab directory)
3) ls (list all the files in that directory, you should see all the files there)

The only file you need to edit is bits.c. You can use "**vi**" editor to edit the file. Here's the tutorial on how to use vi **http://www.cs.colostate.edu/helpdocs/vi.html** Now issue the vi command on terminal to open the file.
4) vi bits.c (open the file, you should see contents of the file now)
5) type in "**i**" to go to insert mode. Note: if you don't type in i, you won't be able to edit the file
6) to save the file, first press "**Esc**" to go to command mode, then type "**:w**" to save the file.
7) to quit, first press "**Esc**", then type "**:q**"
8) to compile the file for this lab, just simply type "**make**" on the terminal.
9) run "./btest" to see what your score is.
10) run "./dlc bits.c" to see if your code complies to all coding rules. Note getting full score on step 9 doesn't necessarily mean you will get full credit. Only once you pass both steps 9 and 10, you will get full credit.