

Computer Architecture CS-211

Spring 2017 | Recitation Abu Shoeb

Hello!

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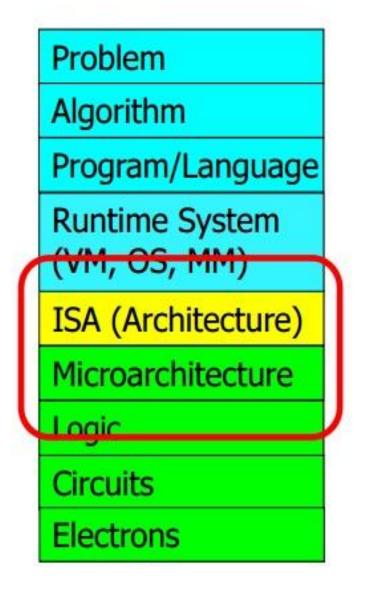
□Hours: Tuesdays 12pm − 1pm

■Use Sakai Forums for any queries. However, if you need to send an email to your TA then please use CS-211 as prefix in your Email Subject!

Agenda

- Introduction
- •How to use iLab machines
- Useful Linux Commands
- Below to write and compile C programs

Introduction



Connect to iLab servers

Follow the link to open your account now

http://www.cs.rutgers.edu/resources/systems/ilab/

To get connected with iLab machines

Use X2GO client for GUI

Windows : download and install

Linux: sudo apt-get install x2goclient

Or use Terminal/Command Line application

ssh netid@address

eg. ssh shoeb@builder.cs.rutgers.edu

You can also use Putty/WinSCP on Windows

Write/Edit Your Code

```
Edit your code using
       Graphical User Interface
              □Gedit

■Notepad++(Windows)

<sup>®</sup>Geany(Linux)

       ©Command Line
              Gedit/Nano/Vim
                      Vim Commands
                             Type vim filename (eg. vim
                             welcome.c)
                             Press "a" to append "i" to insert
                             text
                             Press ESC for command
                             Type :q! (quit without saving)
                             Type :wq (write and quit)
```

Basic Linux Commands 1

Check this: http://linuxcommand.org/index.php

- ssh: login to any machines remotely
- •pwd: show current location
- •cd: change directory (eg. \$cd Documents, or \$cd ..)
- •ls: list all contents (http://www.rapidtables.com/code/linux/ls.htm)
- •locate: show location of a file (eg. \$locate test.txt)
- •Grep: search texts in files (http://www.cyberciti.biz/faq/howto-use-grep-command-in-linux-unix/)
- --version: show version (eg. \$ java –version)
- cat: print contents on screen (ex. \$ cat test.txt)
- touch: create a file (eg. \$ touch test.txt)
- •nano, vim: editor (eg. \$ nano test.txt)

Basic Linux Commands 2

```
gcp: copy file (eg. $ cp source.txt destination.txt)
mkdir: make directory (eg. $ mkdir myfolder)
rm: remove file (eg. $ rm test.txt)
mv: rename file (eg. $ mv oldname.txt newname.txt)
scp: transfer file from local to server machine and vice versa (scp
sourcce destination)
        Local computer to iLab
          $ scp -r local-folder/ shoeb@null.cs.rutgers.edu:~/
?

<sup>a</sup>iLab to Local (execute command from local machine)

        $ scp -r shoeb@null.cs.rutgers.edu:~/remote-folder/
/home/shoeb/
```

Compile and Run C Code

```
Create a .c file (eg. $ touch hello.c)
Den the file with gedit/vim/nano
Compile your code
Spec -Wall -Werror -fsanitize=address hello.c -o hello.out
Run your code
Spec -Mall -Werror -fsanitize=address hello.c -o hello.out
Page 1./hello.out
```

Assignment For This Recitation!

Nothing:-)