

Lecture 1.2: Overview

- Getting started
 - Obtain your UCI netID
 - Obtain an account on the EECS servers
 - Log into the server
- Linux system environment
 - System commands
 - Text editing

Getting Started

- Obtain your UCI netID
 - Your unique ID at UCI
 - Activation online at OIT (NACS) web pages:

`http://activate.uci.edu/activate/menu.html`
- Obtain an account on the EECS servers
 - Your working account in EECS
 - Activation online at EECS web pages:

`https://newport.eecs.uci.edu/account.py`

Getting Started

- Log into the server
 - Use a terminal with SSH protocol (secure shell)
 - Connect to the EECS Linux server
 - `crystalcove.eecs.uci.edu`
 - `zuma.eecs.uci.edu`
 - Authorize yourself with user name and password
- Work in the Linux system environment
 - Linux shell prints command prompt, awaiting input
 - Type in system commands
`echo`, `date`, `ls`, `cat`, `man`, `more`,
`pwd`, `mkdir`, `cd`, `cp`, `mv`, `rm`, `rmdir`
 - Refer to manual pages for help on commands

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Linux System Environment

- Linux system commands
 - `echo` print a message
 - `date` print the current date and time
 - `ls` list the contents of the current directory
 - `cat` list the contents of files
 - `more` list the contents of files page by page
 - `pwd` print the path to the current working directory
 - `mkdir` create a new directory
 - `cd` change the current directory
 - `cp` copy a file
 - `mv` rename and/or move a file
 - `rm` remove (delete) a file
 - `rmdir` remove (delete) a directory
 - `man` view manual pages for system commands

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Linux System Environment

- Text editing
 - **vi** standard Unix editor
 - **vim** vi-improved (supports syntax highlighting)
 - **pico** easy-to-use text editor
 - **emacs** very powerful editor
 - many others...
- Pick one editor and make yourself comfortable with it!

Linux System Environment

- Example session (1/4):

```
login as: doemer
Password:
Last login: Mon Oct  1 08:20:09 2007 from beta.eecs.uci.e
...
If this system is busy, consider a less loaded one below:
vivian.eecs.uci  up 30 days, 18:00,  load average: 0.00, 0.00, 0.01
malibu.eecs.uci up 2826 days, 21:06, load average: 0.00, 0.00, 0.01
newport.eecs.uc up 23 days, 23:29,  load average: 0.00, 0.00, 0.02
east.eecs.uci.e up 12 days,  4:56,  load average: 1.46, 1.41, 1.68
% date
Mon Oct  1 08:24:47 PDT 2007
% echo "Hello EECS10!"
Hello EECS10!
% ls
eecs10/          Mail/           tmp/
% pwd
/users/faculty/doemer
% mkdir homework
% ls
eecs10/          homework/      Mail/          tmp/
...
```

Linux System Environment

- Example session (2/4):

```

...
% cd homework
% pwd
/users/faculty/doemer/homework
% ls
% mkdir hw1
% ls
hw1/
% cd hw1
% ls
% vi program.c
% ls
program.c
doemer@vivian% ls -l
total 2
-rw----- 1 doemer smmsp      51 Oct  1 08:32 program.c
% more program.c
This is my new program file.
I don't know C yet...
...

```

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Linux System Environment

- Example session (3/4):

```

...
% cp program.c mybackup.c
% ls
mybackup.c  program.c
% ls -l
-rw----- 1 doemer smmsp      51 Oct  1 08:34 mybackup.c
-rw----- 1 doemer smmsp      51 Oct  1 08:32 program.c
% cd ..
% pwd
/users/faculty/doemer/homework
% ls
hw1/
% /ecelib/bin/turnin
=====
EECS 10 Fall 2007:
Assignment "hw1" submission for doemer
Due date: Mon Oct  8 11:59:59 2007
=====
...

```

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Linux System Environment

- Example session (4/4):

```
...
Submit program.c [yes, no]? y
Cannot read file program.c
Submit mybackup.c [yes, no]? n
=====
Summary:
=====
You just submitted file(s):
  program.c
You have not submitted file(s):
  mybackup.c
doemer@vivian% ~eecs10/bin/listfiles.py
=====
EECS 10 Fall 2007: "hw1" listing for doemer
=====
Files submitted for assignment "hw1":
program.c
% logout
```