Textbook

C Primer Plus

Command line

Mac- Terminal

Windows

Prompt window

Cygwin-- http://cygwin.com/

PuTTY

From your computer’s terminal

Remote login to the DC

ssh- l uname mac.dc.engr.scu.edu

ssh-l uname linux.scudc.scu.edu

username: first letter of you first name and your last name: yli

password: all zero

Files and Directories

Directory hierarchy

-files are organized in a hierarchical structure

-the user can traverse the hierarchy with absolute or relative paths

Special directories

-home directory: the directory in to which you login

-working directory: the directory from which the user is executing a program

Shell Commands

Create a directory: mkdir coen10

Move into the directory: cd coen10

Move back up

List directory contents: ls (dir1 dir2 …)

Look at the contents of files: cat files1 [file2 file3 …]

Copy a file to another file: cp file1 file2

Copy file(s) somewhere else: cp file1 [file2 file3 …]

Change the name of a file: mv file1 file2

Move file(s) somewhere else: mv file1 [file2 file3 …] dir

Remove files: rm file1 [file2 file3 …]

Remove empty directories: rmdir dir1 [dir2 dir3 …]

Info on commands: man <cmd>

Edit a file with vi: vi filename

vi: the programmers’ favorite editor!!

2 modes: viewing and inserting (initially in viewing mode)

Some commands: to change to insert mode:

1. Inserts at the spot
2. Inserts in the next spot

o- opens a line below for insertion

O- opens a line above for insertion

To change

vi- viewing mode

traversing the text

ctrl+f: next page

ctrl+b: last page

ctrl+

ctrl+

moving the cursor

<return>: next line

<dash>: previous line

<space>: moves the cursor to the right

<delete> or <backspace>: moves the cursor to the left

H,j,k,l – or arrows: moves the cursor to the left, down, up, and right, respectively

Deleting and copying (based on the cursor position)

X: delectes this character

Dw: deletes this string

dd: delects this line

yy: copies this line

yw: copies this string

p: pastes the text copied or deleted

replacing (based on the cursor position)

r<ch>: replaces this character by <ch>

s<str><esc>: substitutes this character by <str>

cw<str><esc>: changes this string by <str>

saving and quitting

:w- saves

:q- quits

:wq- saves and quits

:q!- quits without saving

Searching

/<str><return>- searches for <str>

n- finds the next

HELPFUL!

u- undo

period- repeats the last command

a number before some commands determines repetition of the command