

## Laboratory 2. VI, the text editor

### Objectives

To learn vi, the most popular text editor in Unix.

### Directions

First of all, visit a tutorial web site at <http://www.ece.iupui.edu/tutorial/vi>.

1. The ECE Unix systems have several variation of vi. To make sure the use of default vi under /usr/bin, use the command which as below:  

```
% which vi
```

This command show the path name of the program vi. If this command show different path name than /usr/bin/vi, you must to use explicitly /usr/bin/vi instead of vi.
2. Read through Section 1 and 2.
3. Follow Section 5 → vi Text Editor: Tutorial in Purdue University.
4. You will need manual pages for vi, ex, sed for the following assignments.

### Assignments

You will answer the questions and follow the instruction below:

1. Change the current directory to ~/ece282/lab02/, and copy /etc/passwd under your current directory. Open the file with vi.
2. What key can be used to switch from “Insert Mode” to “Command Mode”?
3. How can you move the cursor up, down, left, and right using only alphabetic keys?
4. How can you delete a current line?
5. How can you delete from the current position to the end of line?
6. What is the difference between ‘A’ and ‘a’ to enter insert mode?
7. What key combination can be used for scrolling backward and forward?
8. How can you move the cursor position to the end of line by typing a single stroke?
9. How can you move the cursor position to the first non-whitespace of a line by typing a single stroke?
10. If you want to save the current file into a different file name, for example, “newfile.txt”, what will you do?
11. How can you move to the line 50 without using cursor-moving keys?
12. How can you list all file under /usr/include without exiting vi?
13. How can you merge two lines into a single line?
14. How can you display the mode of operation in vi?
15. Show how to use ex command to search your user ID from the editor.
16. The passwd file has meaningless “:x:” on each line. Make a single ex command to change all these to “:”.
17. How can you show line number for each line?
18. Use vi to edit two files named “more01.c” and “more02.c” as shown on page 21-22 and 24-25, respectively. (you will submit these two files as well).