Lab 3: System Attributes and Using Word Processor

Learning outcome

Upon successful completion of this lab, you will be able
- How to use some commands that concert process and access the system attributes
- To use the word processor application (vi)

Submission

Upload the word file to cms describes some questions as
- Present the content of manipulating of some command **(including syntax, what does it for?, examples)** as
    - vmstat (view status of virtual memory)
    - pstree –np
    - pgrep <option> <parameter>: list process following name, properties …
    - pkill
    - uptime
    - free
- Capture the terminal screen using the vi application to view the content of file that are typed by you.

Tutorial

Content

1- Process management
2- Some System commands
3- Using the Editor Program vi

1- Process Management:

- **View process status (ps) of the running process on the system: The *ps* command**

```
                                          sutv@localhost:~
 File  Edit  View  Terminal  Help
[sutv@localhost ~]$ ps
  PID TTY          TIME CMD
 1917 pts/0    00:00:00 bash
 1943 pts/0    00:00:00 ps
[sutv@localhost ~]$ ▮
```

- o Syntax: ps [-option]
- o result

PID	TTY	TIME	CMD
2412	tty1	00:00:00	bash
2433	tty2	00:00:00	ps

- o option:
  - ▪ -a: view all
  - ▪ -ax: view all process, even though the process is not concern with tty
  - ▪ -axl: view all process with the full command

  TTY: Teletypewriter originally and now also means any terminal on Linux/Unix systems. It also means any serial port on Unix/Linux systems.

- **Stop a process (the *kill* command)**
  - o Requirement: the PID must be known
  - o Syntax: kill -9 PID
  - o Notes: if it is careless, the system is hang
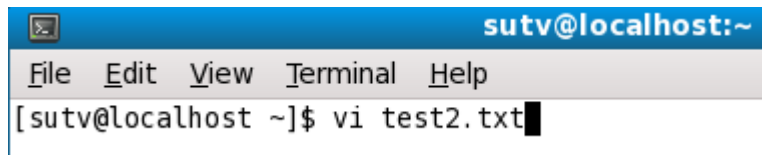
2- <u>Some System Commands</u>

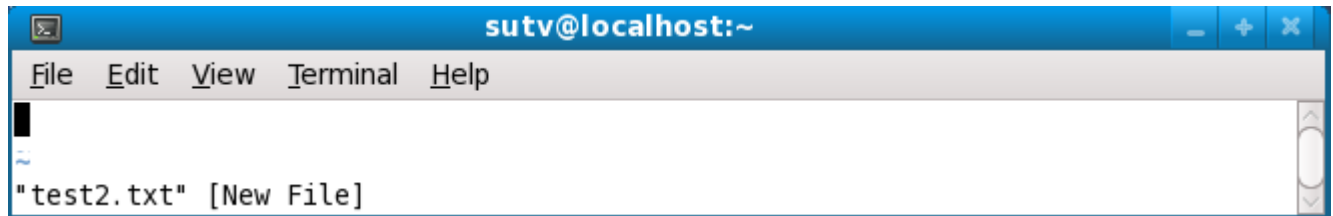Use the **man** command to explore the following commands:

- vmstat (view status of virtual memory)
- pstree –np
- pgrep <option> <parameter>: list process following name, properties …
- pkill
- uptime
- free

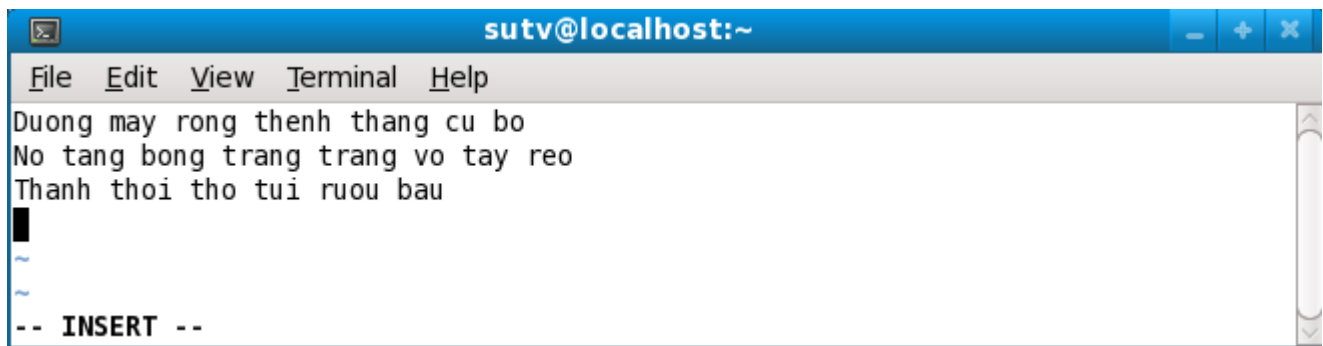## 3- <u>Using the basic Editor Program *vi*</u>

- Syntax: vi <file_name>

- Manipulation
  - Press key i: insert or type the content (in the left)

  - Press key a: insert or type the content (in the right)
  - ESC key: exit to command mode
  - The key arrow is used to move in the content
  - Key x: delete a character
  - Key dd: delete a row

  - Command
    - :w: write file
    - :q: exit vi
    - :wq: write file and exit vi
    - :e!: delete all the content that typing after writing file

  - Some other key function
    - Ctrl G: show the current line
    - G: end of file
    - 1G: begin of file
    - nG: goto n line

END