



#### **Outline**

- Pros and cons of Linux system
- □ Unix 指令
- Change email address on Moodle
- Homework





## Pros and cons of Linux system

- Advantage:
  - □ 系統具高穩定性
  - □ 多工且多使用者
  - □方便管理群組
  - □ 容易進行版本控制
  - □業界常用的作業系統
- Disadvantage:
  - □ 圖形化介面不夠平易近人
  - □ 需花時間學習使用指令







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#### Is (list)

- □ % Is
  - shows you all files and directories
- % Is -a
  - shows you all files, even files that are hidden
- □ % ls -l
  - shows you huge amounts of information (permissions, owners, size, and when last modified.)

-a:all

-l : long listing format

```
|vlsicad5:/home/user2/ms104/patty% ls
local.cshrc local.profile ??????/
                                           ??????/
llocal.login ??????/
                          ??????/
vlsicad5:/home/user2/ms104/pattu% ls -a
                 .gnote/
                                    .synopsys_dc.setup~
                 .gnupg/
                                    .xsession-errors
.ICEauthority
                 .gstreamer-0.10/
                                    .xsession-errors.old
.Xauthority
                 .gtk-bookmarks
                                    local.cshrc
 .abrt/
                                    local.login
                 .gvfs/
                                    local.profile
 .cache/
                 .history
                 .imsettings.log
 .config/
                                    ??????/
 .cshrc
                 .local/
                                    ??????/
 .cshrc~
                 .nautilus/
                                    ??????/
 .dbus/
                 .profile
                                    ??????/
                 .pulse-cookie
                                    ??????/
 .gconf/
                                    ??????/
 .gconfd/
                 recently-used
 .gnome/
                 .ssh/
                                    ??????/
 .gnome2/
                 .sunw/
                                    ??????/
.gnome2_private/ .synopsys_dc.setup
vlsicad5:/home/user2/ms104/pattu% l
total 88
-rw-r--r-- 1 patty stapdev 136 Jan 19 15:29 local.cshrc
-rw-r--r-- 1 patty stapdev 157 Jan 19 15:29 local.login
-rw-r--r-- 1 patty stapdev 174 Jan 19 15:29 local.profile
drwxr-xr-x 2 patty stapdev 512 Jan 19 15:53 ??????/
drwxr-xr-x 2 patty stapdev 512 Jan 19 15:53 ??????/
drwxr-xr-x 2 patty stapdev 512 Jan 19 15:53 ??????/
drwxr-xr-x 2 patty stapdev 512 Jan 19 15:53 ??????/
drwxr-xr-x 2 patty stapdev 512 Jan 19 15:53 ??????/
drwxr-xr-x 2 patty stapdev 512 Jan 19 15:53 ??????/
vlsicad5:/home/user2/ms104/patty%
```





#### mkdir (make directory)

- 🔲 % mkdir Lab1
  - create a Lab1 directory

```
vlsicad5:/home/user2/ms104/patty% mkdir Lab1
vlsicad5:/home/user2/ms104/patty% ls
Lab1/ local.login ??????/ ??????/ ??????/
local.cshrc local.profile ??????/ ??????/ ??????/ ??????/
vlsicad5:/home/user2/ms104/patty% ■
```





## cd (change directory)

- □ % cd ...
  - ☐ go back to last directory
- □ % cd ~
  - ☐ go back to home directory
- % cd Lab1
  - go to Lab1 directory

```
vlsicad5:/home/user2/ms104/patty% cd ..
vlsicad5:/home/user2/ms104/ cd ~
vlsicad5:/home/user2/ms104/patty/ cd Lab1/
vlsicad5:/home/user2/ms104/patty/Lab1/
```







#### pwd (print working directory)

- □ % pwd
  - show the path of the current working directory

vlsicadb:/home/user2/ms104/patty/Lab1/ pwd /home/user2/ms104/patty/Lab1 vlsicad5:/home/user2/ms104/patty/Lab1/

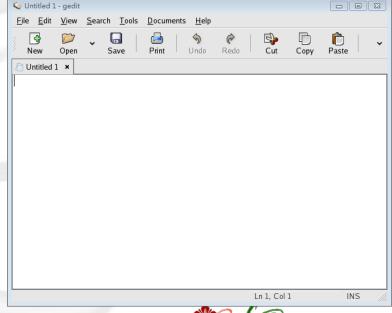




#### gedit (gui editor) (1/3)

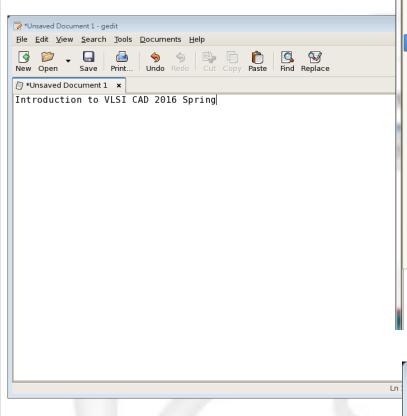
- ☐ % gedit
- □ % gedit &
  - & -> executes in the background

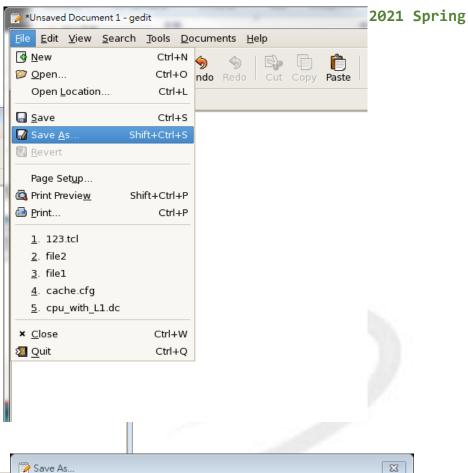
```
vlsicad5:/home/user2/ms104/patty/Lab1/ gedit
vlsicad5:/home/user2/ms104/patty/Lab1/ gedit&
[1] 27417
vlsicad5:/home/user2/ms104/patty/Lab1/ [
```

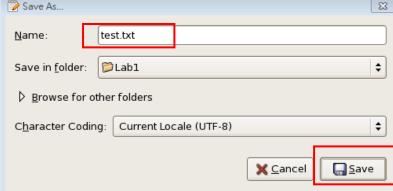




#### gedit (2/3)









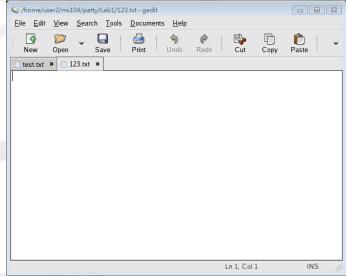


#### gedit (3/3)

- □ % gedit test.txt &
  - open the exist file test.txt by gedit
- □ % gedit 123.txt &
  - open a new file named 123.txt by gedit

|vlsicad5:/home/user2/ms104/patty/Lab1/ gedit test.txt & |[1] 27434

vlsicad5:/home/user2/ms104/patty/Lab1/ ∏





#### more

- % more test.txt
  - displays content in the file on the terminal

vlsicad5:/home/user2/ms104/patty/Lab1/ more test.txt Introduction to VLSI CAD 2016 Spring vlsicad5:/home/user2/ms104/patty/Lab1/





#### cp (copy)

- % cp test.txt homework.txt
  - □ copy file from test.txt to homework.txt
- % cp -r Lab1 Lab2

-r : recursive

copy all subdirectories and files under Lab1 directory to Lab2 directory

```
vlsicad5:/home/user2/ms104/patty/Lab1/ cp test.txt homework.txt

vlsicad5:/home/user2/ms104/patty/Lab1/ ls

vlsicad5:/home/user2/ms104/patty/Lab1/ cd ..

vlsicad5:/home/user2/ms104/patty/ cp -r Lab1 Lab2

vlsicad5:/home/user2/ms104/patty/ ls

Lab1/ local.login ??????/ ??????/

Lab2/ local.profile ??????/ ?????//

vlsicad5:/home/user2/ms104/patty/ |
```



#### mv (move)

- □ % mv test.txt hw1.txt
  - modify test.txt to hw1.txt
- □ % mv hw1.txt ../Lab2
  - move hw1.txt to Lab2 directory
- % mv Lab2 Lab3
  - modify Lab2 directory to Lab3 directory

```
vlsicad5:/home/user2/ms104/patty/ cd Lab1
vlsicad5:/home/user2/ms104/patty/Lab1/ mv test.txt hw1.txt
vlsicad5:/home/user2/ms104/patty/Lab1/ ls
```

#### homework.txt hw1.txt

vlsicad5:/home/user2/ms104/patty/Lab1/ mv hw1.txt ../Lab2

vlsicad5:/home/user2/ms104/patty/Lab1/ cd ..

vlsicad5:/home/user2/ms104/patty/ cd Lab2

vlsicad5:/home/user2/ms104/patty/Lab2/ ls

#### homework.txt hw1.txt test.txt

vlsicad5:/home/user2/ms104/patty/Lab2/ cd ..

vlsicad5:/home/user2/ms104/patty/ mv Lab2 Lab3

vlsicad5:/home/user2/ms104/patty/ ls

Lab1/ local.login ??????/ ??????/ ??????/

Lab3/ local.profile ??????/ ??????/

local.cshrc ??????/ ??????/ ??????/

vlsicad5:/home/user2/ms104/patty/ 🛮



#### rm (remove)

- □ % rm homework.txt
  - ☐ delete homework.txt file
- □ % rm -r Lab3
  - delete Lab3 directory

```
vlsicad5:/home/user2/ms104/patty/ cd Lab3
vlsicad5:/home/user2/ms104/patty/Lab3/ rm homework.txt
rm: remove regular file `homework.txt'? yes
<u>vlsicad5:/home/use</u>r2/ms104/patty/Lab3/ ls
hw1.txt test.txt
vlsicad5:/home/user2/ms104/patty/Lab3/ cd ...
vlsicad5:/home/user2/ms104/patty/ rm -r Lab3
rm: descend into directory `Lab3'? yes
rm: remove regular file `Lab3/test.txt'? yes
rm: remove regular file `Lab3/hw1.txt'? yes
rm: remove directory `Lab3'? yes
vlsicad5:/home/user2/ms104/patty/ ls
            local.login ??????/ ??????/
Lab1/
local.cshrc local.profile ??????// ??????//
                                             ??????/
vlsicad5:/home/user2/ms104/patty/
```





#### rmdir (remove directory)

- % rmdir Lab4
  - □ delete empty directory Lab4

```
vlsicad5:/home/user2/ms104/patty/ mkdir Lab4
vlsicad5:/home/user2/ms104/patty/ ls
Lab1/ local.login ??????/ ??????/
local.profile ??????/ ??????/
vlsicad5:/home/user2/ms104/patty/ rmdir Lab4
vlsicad5:/home/user2/ms104/patty/ ls
Lab1/ local.login ??????/ ??????/ ??????/
vlsicad5:/home/user2/ms104/patty/ |
```



#### tar

- % tar -cvf Lab1.tar Lab1
  - compress Lab1 to Lab1.tar
- % tar -xvf Lab1.tar
  - decompress Lab1.tar to the original directory

-c : create file

-v: show the info.

-f : following is the file name

-x : decompress file

```
|vlsicad5:/home/user2/ms104/patty/ tar -cvf Lab1.tar Lab1
lLab1/l
Lab1/homework.txt
vlsicad5:/home/user2/ms104/patty/ ls
Lab1/
             local.login
                            ??????/ ??????/ ??????/
Lab1.tar
             local.profile ??????/ ??????/
local.cshrc ??????/
                            ??????/ ??????/
vlsicad5:/home/user2/ms104/patty/ rm -r Lab1
rm: descend into directory `Lab1'? yes
rm: remove regular file `Lab1/homework.txt'? yes
rm: remove directory `Lab1'? yes
vlsicad5:/home/user2/ms104/patty/ tar -xvf Lab1.tar
lLab1/
|Lab1/homework.txt
<u>|vlsicad5:/</u>home/user2/ms104/patty/ ls
Lab1/
             local.login
                                              ??????/
Lab1.tar
             local.profile ??????/
local.cshrc ??????/
                            777777/
                                     ??????/
|vlsicad5:/home/user2/ms104/patty/ |
```



#### passwd

- % passwd
  - change password

```
# Welcome to SoCLab-I !
# Available Workstations(Solaris): vlsicad1, vlsicad2, vlsicad3
# Tools: HSPICE, Laker, Verdi, SOCE, ModelSim, verilogXL, Calibre, #
        DesignVision
# Available Workstations(Linux): vlsicad6
# Tools: MathLab, CoWare2005, verilogXL, gcc/g++
# Quota: 100 MB for each account!
# When leaving, LOGOUT and SHUTDOWN the computer please!
# If there r any problem, contact Room 95316 please, thx!
# Email: soclab01@lpvlsi.ee.ncku.edu.tw
vlsicad2:/home/user2/ms104/pattu% passwd
passwd: Changing password for patty
Enter existing login password:
New Password:
Re-enter new Password:
passwd: password successfully changed for patty
vlsicad2:/home/user2/ms104/patty%
```





### Useful Tips (1/2)

- ☐ Ctrl + c
  - ☐ Terminate current task
- □ Tab
  - Autocomplete your command
- □ ↑
  - show previous command



#### Useful Tips (2/2)

- --help
  - show you the usage of the command
  - □ % rm --help

```
vlsicad5:/home/user2/ms104/patty/ rm --help
Usage: rm [OPTION]... FILE...
Remove (unlink) the FILE(s).
  -d, --directory
                       unlink FILE, even if it is a non-empty directory
                          (super-user only; this works only if your system
                           supports `unlink' for nonempty directories)
                        ignore nonexistent files, never prompt
  -f, --force
                       prompt before any removal
  -i, --interactive
      --no-preserve-root do not treat '/' specially (the default)
      --preserve-root fail to operate recursively on '/'
  -r, -R, --recursive remove the contents of directories recursively
  -v, --verbose
                        explain what is being done
                display this help and exit
      --help
      --version output version information and exit
To remove a file whose name starts with a `-', for example `-foo',
use one of these commands:
  rm -- -foo
  rm ./-foo
```





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# LPHPLMB VLSI Design LAB

#### Change email address on Moodle (1/2)





# LPHPLNB VLSI Design LAB

#### Change email address on Moodle (2/2)

首頁 ▶ 個人資料設定 ▶ 編修朝人資		がわる。 ・習・平・台 Netonal Cheng King University 原理 A (原理) 正理中文(zh_tw)
<b>港覧</b> ロロ		
首直		▶ 展開全部
■ 個人化普頁	- ▼ 一般	
▼ 個人資料	名字*	
■ 瀏覽個人資料	電子郵件信箱*	
- 簡訊	顯示電子郵件信 箱	只允許課程同學看到我的電子郵件信箱 ▼
管理 🖂 🖂		姜化的HTML格式 ▼
		無摘要(每次張貼就發送一封郵件)▼
▼ 個人資料設定 ■ 編修個人資料	式 ②	
■ 更改密等 ■ 安全密論 ■ 傳訊息	_	不:不要自動訂閱討論區 ▼
		小 · 小麥目則6月與时務金   好:把新張貼的文章突顯出來▼
	文字编辑器	
	縣/市	
	選擇一個國家	台灣▼
	時區	何服器的當地時間  ▼
	偏愛的語言	正體中文 (zh_tw) ▼
	個人簡介 ②	® AF → B I = E 8 % 8 E E





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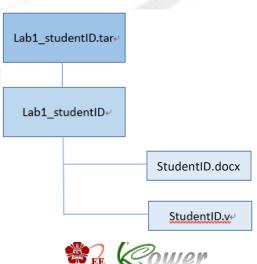




#### **HW1** description

- Use "mkdir" to create a Lab1\_studentID folder
- 2. Use "gedit" to create a Lab1\_studentID.v file in your Lab1\_studentID folder and write down your studentID in Lab1\_studentID.v file.
- Create a studentID.docx file and write the lessons learned from this lab session, or some suggestions for this lab session.
- 4. Use "tar" to archive your Lab1\_studentID folder
- Upload your Lab1\_studentID.tar to moodle (http://moodle.ncku.edu.tw/)

Due date: 2021/03/03 16:00







# Thanks for your participation and attendance!

