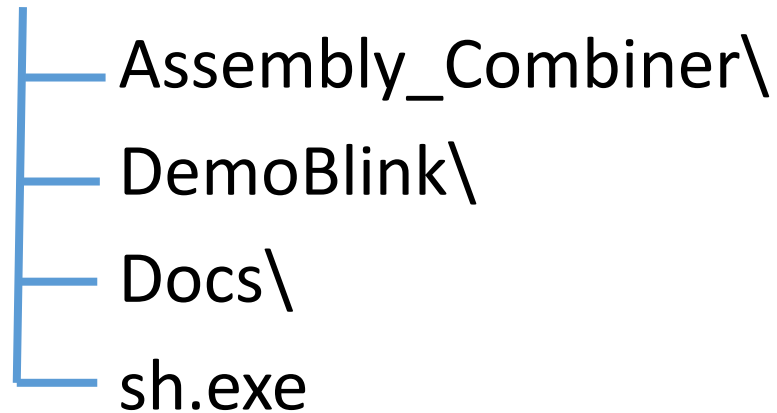


# HW3 Environment Guide

# Useful HW3/ Items in Setting

## Tools and References\

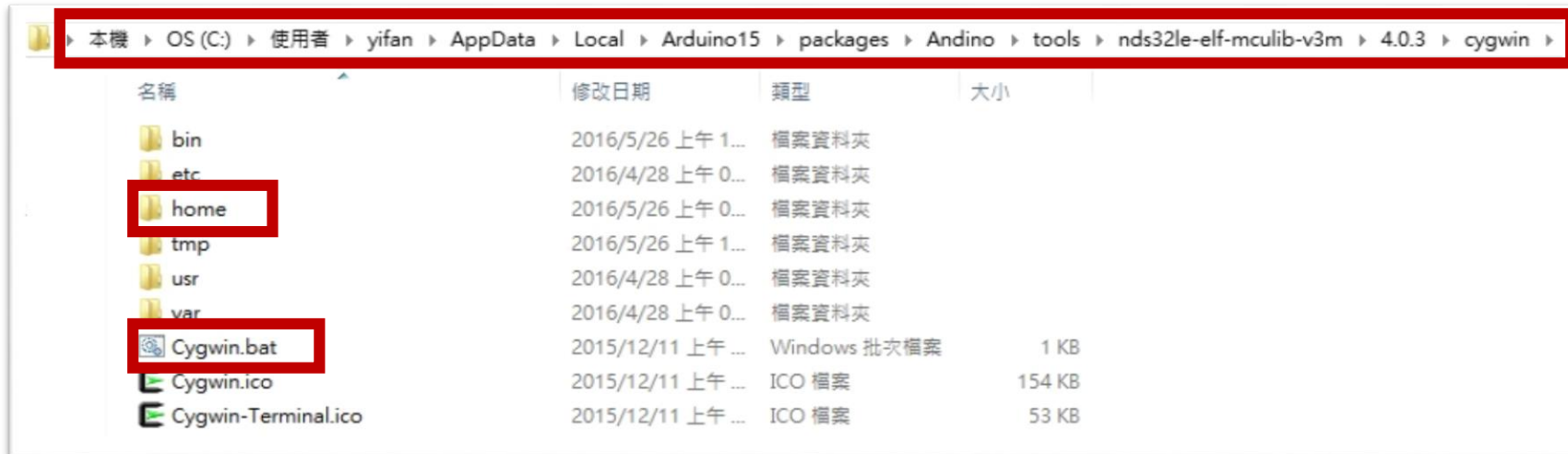


## Testcase1\



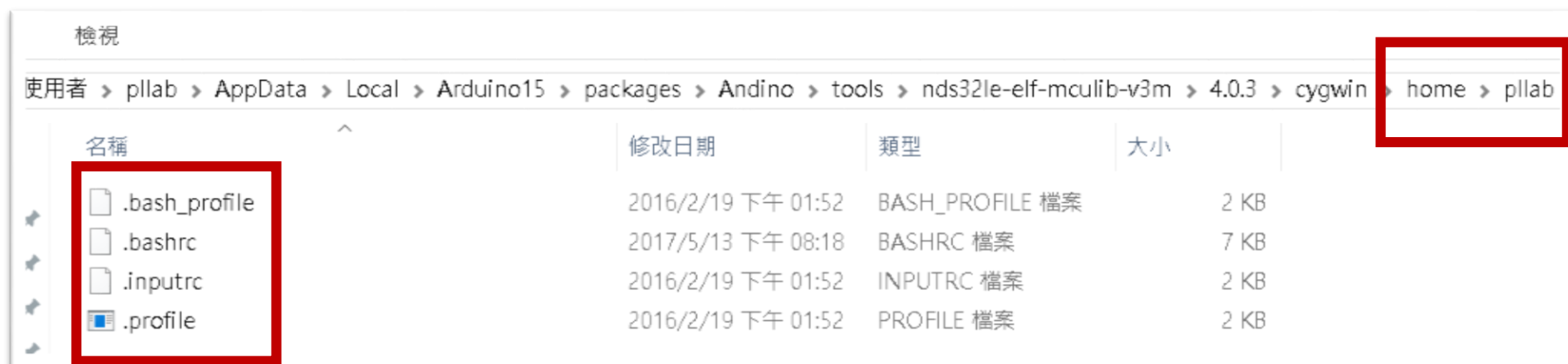
# 第一步驟:執行環境建立(1/7)

- 第一次使用cygwin，不會有home\目錄，請先執行Cygwin.bat，產生home\目錄
  - 路徑  
C:\Users\(**自己的名稱**)  
\AppData\Local\Arduino15\packages\Andino\tools\nds32le-elf-mculib-v3m\4.0.3\cygwin\
    - 在路徑底下會發現Cygwin.bat，double click執行它，如此便會產生home\(**自己的名稱**)\



# 第一步驟:執行環境建立(2/7)

- 紅框處為自動產生



# 第一步驟:執行環境建立(3/7)

- Cygwin命令模式黑視窗  
(TA的畫面已更改視窗設定)

```
1 [main] bash 2496 find_fast_cwd: WARNING: Couldn't compute FAST_CWD pointer. Please report this problem to
the public mailing list cygwin@cygwin.com
Your group is currently "mkpasswd". This indicates that your
gid is not in /etc/group and your uid is not in /etc/passwd.

The /etc/passwd (and possibly /etc/group) files should be rebuilt.
See the man pages for mkpasswd and mkgroup then, for example, run

mkpasswd -l [-d] > /etc/passwd
mkgroup -l [-d] > /etc/group

Note that the -d switch is necessary for domain users.

p1lab@P1labNB ~
$
```

# 第一步驟:執行環境建立(4/7)

- 先關閉原先已開啟的Cygwin視窗
- 把TA提供的HW3\Tools and References\DemoBlink 放到 電腦的 home\(\自己的名稱)\底下

- 路徑

C:\Users\(\自己的名稱)

\AppData\Local\Arduino15\packages\Andino\tools\nds32le-elf-mculib-v3m\4.0.3\Cygwin\home\(\自己的名稱)\



# 第一步驟:執行環境建立(5/7)

- 將HW3\Testcase1\Blink.s放到電腦的  
**DemoBlink\Demo\_Blink\**裡面

- 路徑


C:\Users\**(自己的名稱)**

\AppData\Local\Arduino15\packages\Andino\tools\nds32le-elf-mculib-v3m\4.0.3\Cygwin\home\**(自己的名稱)\DemoBlink\Demo\_Blink**



# 第一步驟:執行環境建立(6/7)

- 設置cygwin環境變數，先找出此路徑，複製起來

 C:\Users\yifan\AppData\Local\Arduino15\packages\Andino\tools\nds32le-elf-mculib-v3m\4.0.3\bin

- 將上面路徑的開頭加入”/cygdrive/c“字眼，並改變斜線方向

/cygdrive/c/Users/yifan/AppData/Local/Arduino15/packages/Andino/tools/nds32le-elf-mculib-v3m/4.0.3/bin

- 進一步完成環境變數的字串，並請確保路徑正確

export PATH="/cygdrive/c/Users/yifan/AppData/Local/Arduino15/packages/Andino/tools/nds32le-elf-mculib-v3m/4.0.3/bin":\$PATH



# 第一步驟:執行環境建立(7/7)

- 回到home\(\自己的名稱\)路徑底下，找到.bashrc
  - 路徑  
C:\Users\(\自己的名稱)  
\AppData\Local\Arduino15\packages\Andino\tools\nds32le-elf-mculib-v3m\4.0.3\Cygwin\home\(\自己的名稱)\.bashrc



- 在.bashrc最下方加入此字串，存檔，離開

```
export PATH="/cygdrive/c/Users/yifan/AppData/Local/Arduino15/packages/Andino/tools/nds32le-elf-mculib-v3m/4.0.3/bin":$PATH
```

- 最後，再啟動Cygwin.bat，完成環境變數設定

# 第二步驟:編譯組合語言(1/3)

- 指令與Linux環境相同
- \$ ls (會發現放入的DemoBlink/)
- \$ cd DemoBlink/
- \$ make clean (下圖畫面)
  - 無任何錯誤訊息

```
liab@liabns ~/DemoBlink
make clean
platform: M2C8001, mode:XIP, EX9:NO
cho ./cores/arduino/sys/m2c-arch/crtbegin.o ./cores/arduino/sys/m2c-arch/init-default.o ./cores/arduino/sys/m2c-arch/init-soc.o ./cores/arduino/sys/board/m2c8001_board
o ./cores/arduino/sys/driver/m2c8001_sys.o ./cores/arduino/sys/driver/m2c8001_gpio.o ./cores/arduino/sys/driver/m2c8001_int.o ./cores/arduino/sys/driver/m2c8001_timer.
./cores/arduino/sys/driver/m2c8001_uart.o ./cores/arduino/sys/driver/m2c8001_pwm.o ./cores/arduino/sys/driver/m2c8001_spi.o ./cores/arduino/sys/driver/m2c8001_i2c.o .
cores/arduino/sys/driver/m2c8001_adc.o ./cores/arduino/sys/m2c-arch/interrupt.o ./cores/arduino/avr/dtostrf.o ./cores/arduino/wiring_digital.o ./cores/arduino/wiring.o
./cores/arduino/wiring_analog.o ./cores/arduino/wiring_pulse.o ./cores/arduino/wiring_shift.o ./cores/arduino/itoa.o ./cores/arduino/WInterrupts.o ./cores/arduino/sys/
2c-arch/crt0.o ./cores/arduino/main.o ./cores/arduino/WMath.o ./cores/arduino/Tone.o ./cores/arduino/Print.o ./cores/arduino/Stream.o ./cores/arduino/WString.o ./cores
arduino/HardwareSerial.o ./libraries/SPI/SPI.o ./libraries/Wire/Wire.o ./Demo_Blink/Blink.o ./cores/arduino/sys/m2c-arch/crtend.o
./cores/arduino/sys/m2c-arch/crtbegin.o ./cores/arduino/sys/m2c-arch/init-default.o ./cores/arduino/sys/m2c-arch/init-soc.o ./cores/arduino/sys/board/m2c8001_board.o ./
cores/arduino/sys/driver/m2c8001_sys.o ./cores/arduino/sys/driver/m2c8001_gpio.o ./cores/arduino/sys/driver/m2c8001_int.o ./cores/arduino/sys/driver/m2c8001_timer.o ./c
res/arduino/sys/driver/m2c8001_uart.o ./cores/arduino/sys/driver/m2c8001_pwm.o ./cores/arduino/sys/driver/m2c8001_spi.o ./cores/arduino/sys/driver/m2c8001_i2c.o ./core
/arduino/sys/driver/m2c8001_adc.o ./cores/arduino/sys/m2c-arch/interrupt.o ./cores/arduino/avr/dtostrf.o ./cores/arduino/wiring_digital.o ./cores/arduino/wiring.o ./co
es/arduino/wiring_analog.o ./cores/arduino/wiring_pulse.o ./cores/arduino/wiring_shift.o ./cores/arduino/itoa.o ./cores/arduino/WInterrupts.o ./cores/arduino/sys/m2c-a
ch/crt0.o ./cores/arduino/main.o ./cores/arduino/WMath.o ./cores/arduino/Tone.o ./cores/arduino/Print.o ./cores/arduino/Stream.o ./cores/arduino/WString.o ./cores/ardu
no/HardwareSerial.o ./libraries/SPI/SPI.o ./libraries/Wire/Wire.o ./Demo_Blink/Blink.o ./cores/arduino/sys/m2c-arch/crtend.o
n -rf ./Demo_Blink/arduino-Blink.* ./cores/arduino/sys/m2c-arch/crtbegin.o ./cores/arduino/sys/m2c-arch/init-default.o ./cores/arduino/sys/m2c-arch/init-soc.o ./cores/
rduino/sys/board/m2c8001_board.o ./cores/arduino/sys/driver/m2c8001_sys.o ./cores/arduino/sys/driver/m2c8001_gpio.o ./cores/arduino/sys/driver/m2c8001_int.o ./cores/ar
duino/sys/driver/m2c8001_timer.o ./cores/arduino/sys/driver/m2c8001_uart.o ./cores/arduino/sys/driver/m2c8001_pwm.o ./cores/arduino/sys/driver/m2c8001_spi.o ./cores/ard
ino/sys/driver/m2c8001_i2c.o ./cores/arduino/sys/driver/m2c8001_adc.o ./cores/arduino/sys/m2c-arch/interrupt.o ./cores/arduino/avr/dtostrf.o ./cores/arduino/wiring_dig
ital.o ./cores/arduino/wiring.o ./cores/arduino/wiring_analog.o ./cores/arduino/wiring_pulse.o ./cores/arduino/wiring_shift.o ./cores/arduino/itoa.o ./cores/arduino/WIn
errupts.o ./cores/arduino/sys/m2c-arch/crt0.o ./cores/arduino/main.o ./cores/arduino/WMath.o ./cores/arduino/Tone.o ./cores/arduino/Print.o ./cores/arduino/Stream.o ./
cores/arduino/WString.o ./cores/arduino/HardwareSerial.o ./libraries/SPI/SPI.o ./libraries/Wire/Wire.o ./Demo_Blink/Blink.o ./cores/arduino/sys/m2c-arch/crtend.o
```

# 第二步驟:編譯組合語言(2/3)

- \$ make
- \$ cd Demo\_Blink
- \$ ls
  - 編譯Blink.s後會產生一些檔案

```
~/DemoBlink/Demo_Blink
ge -D__Andino_M1__ -DCONFIG_NO_NDS32_EXT_EX9 cores/arduino/HardwareSerial.cpp -o cores/arduino/HardwareSerial.o
nds32le-elf-g++ -S -O0 -mno-16-bit -c -Wall -I./cores/arduino/sys/inc -I./cores/arduino -I./cores/arduino/sys/m2c-arch -I./libraries/Wire -I./libraries/SPI -mmodel=large -D__Andino_M1__ -DCONFIG_NO_NDS32_EXT_EX9 cores/arduino/HardwareSerial.cpp -o cores/arduino/HardwareSerial.o.s
nds32le-elf-g++ -c -O0 -mno-16-bit -c -Wall -I./cores/arduino/sys/inc -I./cores/arduino -I./cores/arduino/sys/m2c-arch -I./libraries/Wire -I./libraries/SPI -mmodel=large -D__Andino_M1__ -DCONFIG_NO_NDS32_EXT_EX9 libraries/SPI/SPI.cpp -o libraries/SPI/SPI.o
nds32le-elf-g++ -S -O0 -mno-16-bit -c -Wall -I./cores/arduino/sys/inc -I./cores/arduino -I./cores/arduino/sys/m2c-arch -I./libraries/Wire -I./libraries/SPI -mmodel=large -D__Andino_M1__ -DCONFIG_NO_NDS32_EXT_EX9 libraries/SPI/SPI.cpp -o libraries/SPI/SPI.o.s
nds32le-elf-g++ -c -O0 -mno-16-bit -c -Wall -I./cores/arduino/sys/inc -I./cores/arduino -I./cores/arduino/sys/m2c-arch -I./libraries/Wire -I./libraries/SPI -mmodel=large -D__Andino_M1__ -DCONFIG_NO_NDS32_EXT_EX9 libraries/Wire/Wire.cpp -o libraries/Wire/Wire.o
nds32le-elf-g++ -S -O0 -mno-16-bit -c -Wall -I./cores/arduino/sys/inc -I./cores/arduino -I./cores/arduino/sys/m2c-arch -I./libraries/Wire -I./libraries/SPI -mmodel=large -D__Andino_M1__ -DCONFIG_NO_NDS32_EXT_EX9 libraries/Wire/Wire.cpp -o libraries/Wire/Wire.o.s
nds32le-elf-gcc -c -O0 -mno-16-bit -c -Wall -I./cores/arduino/sys/inc -I./cores/arduino -I./cores/arduino/sys/m2c-arch -I./libraries/Wire -I./libraries/SPI -mmodel=large -D__Andino_M1__ -DCONFIG_NO_NDS32_EXT_EX9 Demo_Blink/Blink.s -o Demo_Blink/Blink.o
nds32le-elf-gcc -c -O0 -mno-16-bit -c -Wall -I./cores/arduino/sys/inc -I./cores/arduino -I./cores/arduino/sys/m2c-arch -I./libraries/Wire -I./libraries/SPI -mmodel=large -D__Andino_M1__ -DCONFIG_NO_NDS32_EXT_EX9 cores/arduino/sys/m2c-arch/crtend.c -o cores/arduino/sys/m2c-arch/crtend.o
nds32le-elf-g++ -Os -Wl,--start-group -lgloss -lgcc -lc -lstdc++ -lm -nostdlib -nostartfiles -static -T ./cores/arduino/sys/board/M2C8001.ld ./cores/arduino/sys/m2c-arch/crtbegin.o ./cores/arduino/sys/m2c-arch/init-default.o ./cores/arduino/sys/m2c-arch/init-soc.o ./cores/arduino/sys/board/m2c8001_board.o ./cores/arduino/sys/driver/m2c8001_sys.o ./cores/arduino/sys/driver/m2c8001_gpio.o ./cores/arduino/sys/driver/m2c8001_int.o ./cores/arduino/sys/driver/m2c8001_timer.o ./cores/arduino/sys/driver/m2c8001_uart.o ./cores/arduino/sys/driver/m2c8001_pwm.o ./cores/arduino/sys/driver/m2c8001_spi.o ./cores/arduino/sys/driver/m2c8001_i2c.o ./cores/arduino/sys/driver/m2c8001_adc.o ./cores/arduino/sys/m2c-arch/interrupt.o ./cores/arduino/avr/dtostrf.o ./cores/arduino/wiring_digital.o ./cores/arduino/wiring.o ./cores/arduino/wiring_analog.o ./cores/arduino/wiring_pulse.o ./cores/arduino/wiring_shift.o ./cores/arduino/itoa.o ./cores/arduino/WInterrupts.o ./cores/arduino/sys/m2c-arch/crt0.o ./cores/arduino/main.o ./cores/arduino/WMath.o ./cores/arduino/Tone.o ./cores/arduino/Print.o ./cores/arduino/Stream.o ./cores/arduino/WString.o ./cores/arduino/HardwareSerial.o ./libraries/SPI/SPI.o ./libraries/Wire/Wire.o ./Demo_Blink/Blink.o ./cores/arduino/sys/m2c-arch/crtend.o -o ./Demo_Blink/arduino-Blink.elf
nds32le-elf-objdump -D ./Demo_Blink/arduino-Blink.elf > ./Demo_Blink/arduino-Blink.s
nds32le-elf-objdump -s ./Demo_Blink/arduino-Blink.elf > ./Demo_Blink/arduino-Blink.dat
nds32le-elf-objcopy -O binary -R .note -R .comment -S ./Demo_Blink/arduino-Blink.elf ./Demo_Blink/arduino-Blink.bin
nds32le-elf-nm -B -n ./Demo_Blink/arduino-Blink.elf > ./Demo_Blink/arduino-Blink.map
nds32le-elf-readelf -a ./Demo_Blink/arduino-Blink.elf > ./Demo_Blink/arduino-Blink.txt

p1lab@P1labNB ~/DemoBlink
$ cd Demo_Blink/;ls
arduino-Blink.bin arduino-Blink.dat arduino-Blink.elf arduino-Blink.map arduino-Blink.s arduino-Blink.txt Blink.o Blink.s

p1lab@P1labNB ~/DemoBlink/Demo_Blink
$
微軟注音 半 :
```

# 第二步驟:編譯組合語言(3/3)

- 編譯錯誤狀況

- 假使編譯過程出現紅色框訊息 /bin/sh: Command not found

```
make clean
platform: M2C8001, mode:XIP, EX9:NO
ake: /bin/sh: Command not found
cho ./cores/arduino/sys/m2c-arch/crtbegin.o ./cores/arduino/sys/m2c-arch/init-default.o ./cores/arduino/sys/m2c-arch/init-soc.o ./cores/arduino/sys/board/m2c8001_board.o ./cores/arduino/sys/driver/m2c8001_sys.o ./cores/arduino/sys/driver/m2c8001_gpio.o ./cores/arduino/sys/driver/m2c8001_int.o ./cores/arduino/sys/driver/m2c8001_timer.o ./cores/arduino/sys/driver/m2c8001_uart.o ./cores/arduino/sys/driver/m2c8001_pwm.o ./cores/arduino/sys/driver/m2c8001_spi.o ./cores/arduino/sys/driver/m2c8001_i2c.o ./cores/arduino/sys/driver/m2c8001_adc.o ./cores/arduino/sys/m2c-arch/interrupt.o ./cores/arduino/avr/dtostrf.o ./cores/arduino/wiring_digital.o ./cores/arduino/wiring.o ./cores/arduino/wiring_analog.o ./cores/arduino/wiring_pulse.o ./cores/arduino/wiring_shift.o ./cores/arduino/itoa.o ./cores/arduino/WInterrupts.o ./cores/arduino/sys/m2c-arch/crt0.o ./cores/arduino/main.o ./cores/arduino/VMath.o ./cores/arduino/Tone.o ./cores/arduino/Print.o ./cores/arduino/Stream.o ./cores/arduino/WString.o ./cores/arduino/HardwareSerial.o ./libraries/SPI/SPI.o ./libraries/Wire/Wire.o ./Demo_Blink/Blink.o ./cores/arduino/sys/m2c-arch/crtend.o
./cores/arduino/sys/m2c-arch/crtbegin.o ./cores/arduino/sys/m2c-arch/init-default.o ./cores/arduino/sys/m2c-arch/init-soc.o ./cores/arduino/sys/board/m2c8001_board.o ./cores/arduino/sys/driver/m2c8001_sys.o ./cores/arduino/sys/driver/m2c8001_gpio.o ./cores/arduino/sys/driver/m2c8001_int.o ./cores/arduino/sys/driver/m2c8001_timer.o ./cores/arduino/sys/driver/m2c8001_uart.o ./cores/arduino/sys/driver/m2c8001_pwm.o ./cores/arduino/sys/driver/m2c8001_spi.o ./cores/arduino/sys/driver/m2c8001_i2c.o ./cores/arduino/sys/driver/m2c8001_adc.o ./cores/arduino/sys/m2c-arch/interrupt.o ./cores/arduino/avr/dtostrf.o ./cores/arduino/wiring_digital.o ./cores/arduino/wiring.o ./cores/arduino/wiring_analog.o ./cores/arduino/wiring_pulse.o ./cores/arduino/wiring_shift.o ./cores/arduino/itoa.o ./cores/arduino/WInterrupts.o ./cores/arduino/sys/m2c-arch/crt0.o ./cores/arduino/main.o ./cores/arduino/VMath.o ./cores/arduino/Tone.o ./cores/arduino/Print.o ./cores/arduino/Stream.o ./cores/arduino/WString.o ./cores/arduino/HardwareSerial.o ./libraries/SPI/SPI.o ./libraries/Wire/Wire.o ./Demo_Blink/Blink.o ./cores/arduino/sys/m2c-arch/crtend.o
n -rf ./Demo_Blink/arduino-Blink.* ./cores/arduino/sys/m2c-arch/crtbegin.o ./cores/arduino/sys/m2c-arch/init-default.o ./cores/arduino/sys/m2c-arch/init-soc.o ./cores/arduino/sys/board/m2c8001_board.o ./cores/arduino/sys/driver/m2c8001_sys.o ./cores/arduino/sys/driver/m2c8001_gpio.o ./cores/arduino/sys/driver/m2c8001_int.o ./cores/arduino/sys/driver/m2c8001_timer.o ./cores/arduino/sys/driver/m2c8001_uart.o ./cores/arduino/sys/driver/m2c8001_pwm.o ./cores/arduino/sys/driver/m2c8001_spi.o ./cores/arduino/sys/driver/m2c8001_i2c.o ./cores/arduino/sys/driver/m2c8001_adc.o ./cores/arduino/sys/m2c-arch/interrupt.o ./cores/arduino/avr/dtostrf.o ./cores/arduino/wiring_digital.o ./cores/arduino/wiring.o ./cores/arduino/wiring_analog.o ./cores/arduino/wiring_pulse.o ./cores/arduino/wiring_shift.o ./cores/arduino/itoa.o ./cores/arduino/WInterrupts.o ./cores/arduino/sys/m2c-arch/crt0.o ./cores/arduino/main.o ./cores/arduino/VMath.o ./cores/arduino/Tone.o ./cores/arduino/Print.o ./cores/arduino/Stream.o ./cores/arduino/WString.o ./cores/arduino/HardwareSerial.o ./libraries/SPI/SPI.o ./libraries/Wire/Wire.o ./Demo_Blink/Blink.o ./cores/arduino/sys/m2c-arch/crtend.o
ake: /bin/sh: Command not found
akefile:157: recipe for target 'clean' failed
ake: *** [clean] Error 127
```

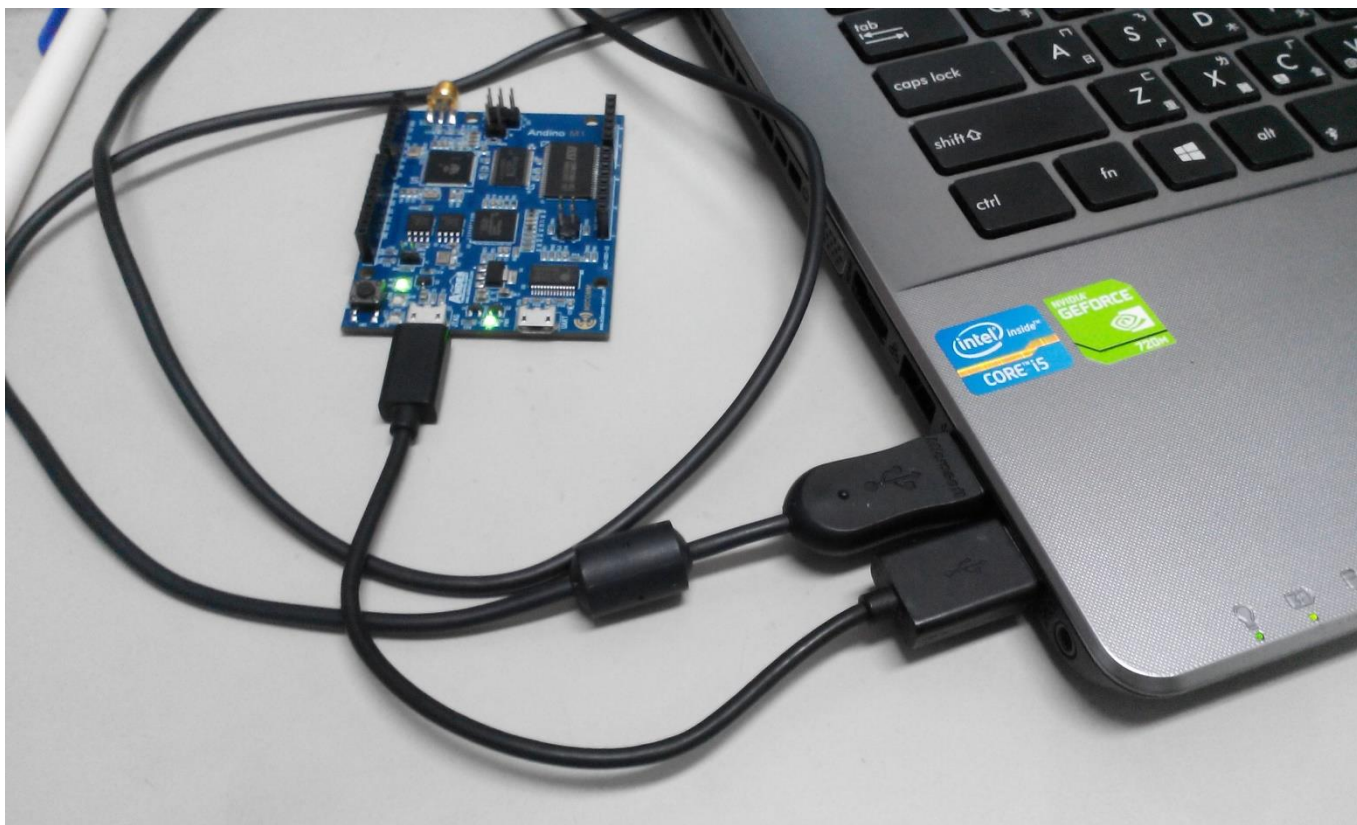
- 請至HW3\Tools and References\，將”sh.exe”放進到下面的路徑裡面，再重新make clean即可

C:\Users\yifan\AppData\Local\Arduino15\packages\Arduino\tools\ndsf32le-elf-mcilib-v3m\4.0.3\cygwin\bin



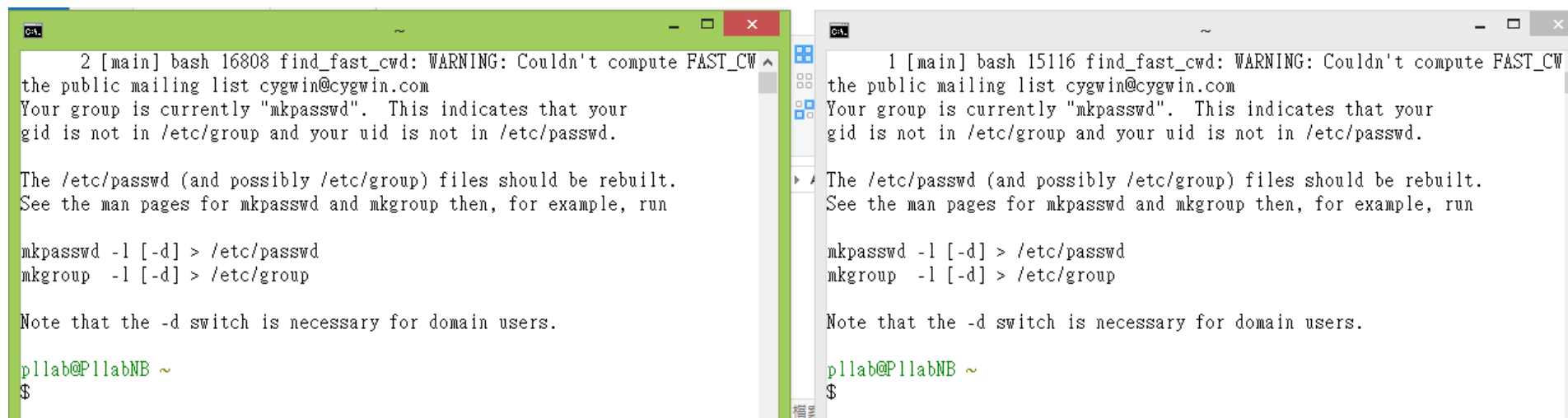
# 第三步驟:燒錄進板子(1/5)

- 按照“2017\_Andes Andino Environment Guide.pdf”，確認板子連結到電腦



# 第三步驟:燒錄進板子(2/5)

- 回到windows環境下的Cygwin\目錄
- 點擊Cygwin.bat，開啟新視窗(原先執行編譯的視窗可保留)
- 如下圖所示，這時會存在兩個視窗狀態



The image shows two side-by-side Cygwin terminal windows. Both windows display the same text output, which is a warning message followed by instructions on how to rebuild the /etc/passwd and /etc/group files. The left window has a green title bar and the right window has a grey title bar. Both windows show the user 'p1lab@P1labNB' at the prompt '\$'.

```
2 [main] bash 16808 find_fast_cwd: WARNING: Couldn't compute FAST_CW
the public mailing list cygwin@cygwin.com
Your group is currently "mkpasswd". This indicates that your
gid is not in /etc/group and your uid is not in /etc/passwd.

The /etc/passwd (and possibly /etc/group) files should be rebuilt.
See the man pages for mkpasswd and mkgroup then, for example, run

mkpasswd -l [-d] > /etc/passwd
mkgroup -l [-d] > /etc/group

Note that the -d switch is necessary for domain users.

p1lab@P1labNB ~
$
```

```
1 [main] bash 15116 find_fast_cwd: WARNING: Couldn't compute FAST_CW
the public mailing list cygwin@cygwin.com
Your group is currently "mkpasswd". This indicates that your
gid is not in /etc/group and your uid is not in /etc/passwd.

The /etc/passwd (and possibly /etc/group) files should be rebuilt.
See the man pages for mkpasswd and mkgroup then, for example, run

mkpasswd -l [-d] > /etc/passwd
mkgroup -l [-d] > /etc/group

Note that the -d switch is necessary for domain users.

p1lab@P1labNB ~
$
```

# 第三步驟:燒錄進板子(3/5)

- 先在第一個視窗輸入下面兩個指令啟動ICEman

```
cd "/cygdrive/c/Users/yifan/AppData/Local/Arduino15/packages/Andino/tools/m2c_burner/0.0.1"
```

```
./ICEman.exe -p 1234
```

```
pillab@PillabNB ~
```

```
$ cd "/cygdrive/c/Users/yifan/AppData/Local/Arduino15/packages/Andino/tools/m2c_burner/0.0.1"
```

```
pillab@PillabNB /cygdrive/c/Users/yifan/AppData/Local/Arduino15/packages/And
```

```
$ ./ICEman.exe -p 1234
```

```
Andes ICEman v3.2.2 (OpenOCD) BUILD_ID: 2015082815
```

```
Burner listens on 2354
```

```
Telnet port: 4444
```

```
TCL port: 6666
```

```
Open On-Chip Debugger 0.8.0-dev-g1a84463 (2015-08-28-15:34)
```

```
Licensed under GNU GPL v2
```

```
For bug reports, read
```

```
    http://openocd.sourceforge.net/doc/doxygen/bugs.html
```

```
Andes AICE-MINI v1.0.2
```

```
There is 1 core in target
```

```
Core #0: EDM version 0x1010
```

```
JTAG frequency 12 MHz
```

```
The core #0 listens on 1234.
```

```
ICEman is ready to use.
```

# 第三步驟:燒錄進板子(4/5)

- 第二個視窗輸入下面指令開始燒錄(可寫成script)

```
cd "/cygdrive/c/Users/yifan/AppData/Local/Arduino15/packages/Andino/tools/m2c_burner/0.0.1"
```

```
./m2c_newton.exe --image=/cygdrive/c/Users/yifan/AppData/Local/Arduino15/packages/Andino/tools/nds32le-elf-mculib-v3m/4.0.3/cygwin/home/pllab/DemoBlink/Demo_Blink/arduino-Blink.bin
```

```
cygwin warning:
MS-DOS style path detected: c:/Users/yifan/AppData/Local/Arduino15/packages/Andino/tools/m2c_burner/0.0.1
```

```
cygwin warning:
MS-DOS style path detected: c:/Users/yifan/AppData/Local/Arduino15/packages/Andino/tools/nds32le-elf-mculib-v3m/4.0.3/cygwin/home/pllab/DemoBlink/Demo_Blink/arduino-Blink.bin
```

```
cygwin warning:
MS-DOS style path detected: c:/Users/yifan/AppData/Local/Arduino15/packages/Andino/tools/nds32le-elf-mculib-v3m/4.0.3/cygwin/home/pllab/DemoBlink/Demo_Blink/arduino-Blink.bin
Preferred POSIX equivalent is: /home/pllab/DemoBlink/Demo_Blink/arduino-Blink.bin
CYGWIN environment variable option "nodosfilewarning" turns off this warning.
Consult the user's guide for more details about POSIX paths:
http://cygwin.com/cygwin-ug-net/using.html#using-pathnames
```

```
M2C Burner BUILD_ID: 20150623
RESET_HOLD CPU
Image size:107056
Flash base address: 0x0
Start Init Flash Controller
Flash Init
erase from address = 0
total erasing block 53, size:0x1a800
erasing block 1 (0x0 ~ 0x800)
erasing block 2 (0x800 ~ 0x1000)
erasing block 3 (0x1000 ~ 0x1800)
erasing block 4 (0x1800 ~ 0x2000)
erasing block 5 (0x2000 ~ 0x2800)
erasing block 6 (0x2800 ~ 0x3000)
erasing block 7 (0x3000 ~ 0x3800)
erasing block 8 (0x3800 ~ 0x4000)
erasing block 9 (0x4000 ~ 0x4800)
erasing block 10 (0x4800 ~ 0x5000)
微軟注音 半 : done.x0, size:0x1a230.
```

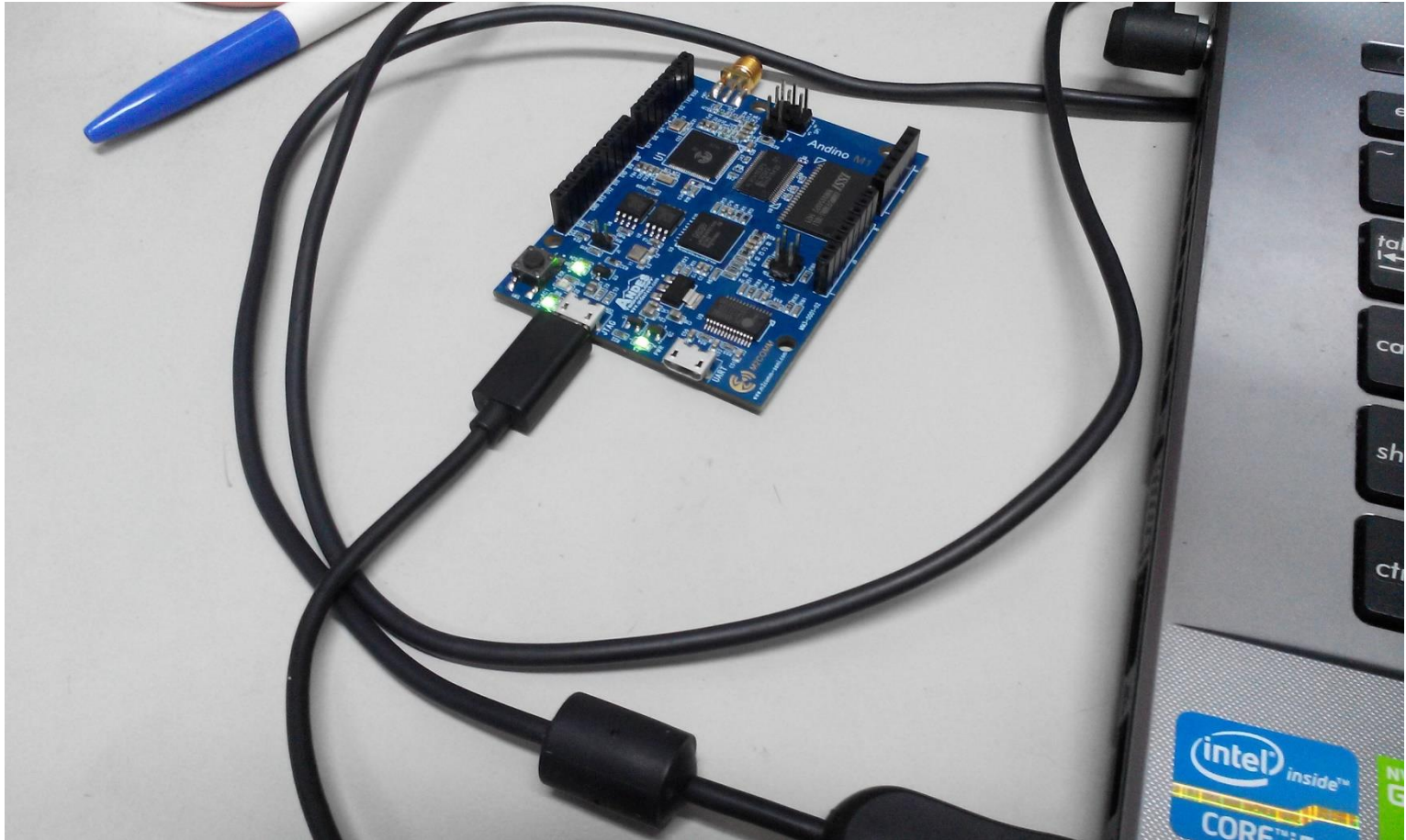
```
20%
30%
30%
30%
30%
40%
40%
40%
40%
40%
50%
50%
50%
50%
50%
60%
60%
60%
60%
60%
60%
70%
70%
70%
70%
80%
80%
80%
80%
90%
90%
90%
90%
Flash burning done.
pllab@pllabNB /cygdrive/c/Users/yifan/AppData/Local/Arduino15/packages/Andino/tools/nds32le-elf-mculib-v3m/4.0.3/cygwin/home/pllab/DemoBlink/Demo_Blink/arduino-Blink.bin
微軟注音 半 : done.x0, size:0x1a230.
```

看到此字樣，  
表示燒錄完成 ^^



# 第三步驟:燒錄進板子(5/5)

- 板子的LED開始閃爍



End