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春雷早發：樹莓派 2 Model B：早鳥篇

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桃始華



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驚蟄，為二十四節氣裡第三個節氣，是指太陽到達黃經三四五度的時候，通常在國歷每年三月五日或三月六日。中國古代稱作『啟蟄』，物候『桃始華』。《月令七十二候集解》：驚蟄，二月節。《夏小正》曰：正月啟蟄，言發蟄也。萬物出乎震，震為雷，故曰驚蟄。是蟄蟲驚而出走矣。

樹莓派基金會突如其來的一篇《[Raspberry Pi 2 on sale now at \\$35](#)》宣告，打響了春雷震驚千里！不是驚蟄都還沒到嗎？那時造成網路大塞車，根據

《*Taps monitor* – is this thing on?》所載，「此物」初登場，就瞬間「秒殺」！！果然是「春雷之琴」，琴身左刻「其聲沈以雄，其韻和以沖」，右雕「誰其識之出囊中」的耶？？

作者或因早起的鳥兒有蟲吃？還是早起的虫儿被鳥吃？？也取得了一片「樹莓派 2 Model B」！！由於目前「此物」尚無太多資料，又想確定《開機沒畫面？Noobs 安裝》一文，是否需要修訂？於是下載了：

```
NOOBS
Offline and network install
Version: 1.3.12
Release date: 2015-02-02
```

果然正常開機，沒想到卻卡在「tar」解壓縮 raspbian 上，看來「此物」對「micro SD 卡」有點講究。不得已，只好再試：

```
Raspbian
Debian Wheezy
Version: January 2015
Release date: 2015-01-31
```

竟然一試成功，讀寫更新正常！當真有點奇也怪哉！！一查 linux kernel 版本，大吃一驚：

```
pi@raspberrypi ~ $ cat /proc/version
Linux version 3.18.5-v7+ (dc4@dc4-XPS13-9333) (gcc version 4.8.3 20140303
(prerelease) (crosstool-NG linaro-1.13.1+bzr2650 – Linaro GCC 2014.03) ) #225
SMP PREEMPT Fri Jan 30 18:53:55 GMT 2015
pi@raspberrypi ~ $
```

這可是去年十二月七日，才由 **Linus Torvalds** <> 拍板發行的哩！！真正是大躍進的啲？難道真不必不擔心「軟體相容性」ARM v6 + v7 的嗎？？因此作者將 B+ 所用的 raspbian 「升級」—— **sudo apt-get dist-upgrade** ——，好ㄟ！當真是都可以跑ㄟ！！但是：

```
root@raspberrypi:/sys/class/leds# ls
ACT
root@raspberrypi:/sys/class/leds#
```

所以，《Physical computing：《二》GPIO 初探》 **NG**

還好，《Physical computing：《三》GPIO 溯源《中》》 **OK**

假使參造《wiringPi updated for the new Pi v2》所說：

The Pi 2 has the same GPIO interface, however presumably due to the 1GB of RAM the GPIO base location has changed.

Fetch the latest wiring Pi – version 2.24 – and you should be fine on all versions of the Raspberry Pi.

看來眼前將會有個陣痛期的吧！！

Shell

```
pi@raspberrypi ~  
$ gpio readall
```

```
1 pi@raspberrypi ~ $ gpio readall  
2 +-----+-----+-----+-----+-----+-----+-----Pi 2-----+-----+-----+  
3 |BCM |wPi | Name | Mode | V | Physical | V | Mode | Name | wPi | BCM |  
4 +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+  
5 | | | 3.3v | | | 1 || 2 | | | 5v | | | |  
6 | 2 | 8 | SDA.1 | IN | 1 | 3 || 4 | | | 5V | | | |  
7 | 3 | 9 | SCL.1 | IN | 1 | 5 || 6 | | | 0v | | | |  
8 | 4 | 7 | GPIO.7 | IN | 1 | 7 || 8 | 1 | ALT0 | TxD | 15 | 14 |  
9 | | | 0v | | | 9 || 10 | 1 | ALT0 | RxD | 16 | 15 |  
10 | 17 | 0 | GPIO.0 | IN | 0 | 11 || 12 | 0 | IN | GPIO.1 | 1 | 18 |  
11 | 27 | 2 | GPIO.2 | IN | 0 | 13 || 14 | | | 0v | | | |  
12 | 22 | 3 | GPIO.3 | IN | 0 | 15 || 16 | 0 | IN | GPIO.4 | 4 | 23 |  
13 | | | 3.3v | | | 17 || 18 | 0 | IN | GPIO.5 | 5 | 24 |  
14 | 10 | 12 | MOSI | IN | 0 | 19 || 20 | | | 0v | | | |  
15 | 9 | 13 | MISO | IN | 0 | 21 || 22 | 0 | IN | GPIO.6 | 6 | 25 |  
16 | 11 | 14 | SCLK | IN | 0 | 23 || 24 | 1 | IN | CE0 | 10 | 8 |  
17 | | | 0v | | | 25 || 26 | 1 | IN | CE1 | 11 | 7 |  
18 | 0 | 30 | SDA.0 | IN | 1 | 27 || 28 | 1 | IN | SCL.0 | 31 | 1 |  
19 | 5 | 21 | GPIO.21 | IN | 1 | 29 || 30 | | | 0v | | | |  
20 | 6 | 22 | GPIO.22 | IN | 1 | 31 || 32 | 0 | IN | GPIO.26 | 26 | 12 |  
21 | 13 | 23 | GPIO.23 | IN | 0 | 33 || 34 | | | 0v | | | |  
22 | 19 | 24 | GPIO.24 | IN | 0 | 35 || 36 | 0 | IN | GPIO.27 | 27 | 16 |  
23 | 26 | 25 | GPIO.25 | IN | 0 | 37 || 38 | 0 | IN | GPIO.28 | 28 | 20 |  
24 | | | 0v | | | 39 || 40 | 0 | IN | GPIO.29 | 29 | 21 |  
25 +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+  
26 |BCM |wPi | Name | Mode | V | Physical | V | Mode | Name | wPi | BCM |  
27 +-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+  
28 pi@raspberrypi ~ $
```

——待續.....

