Q: 是否有原始 library 參考資料?

A: https://github.com/sandeepmistry/arduino-nRF5

Q: 無法燒錄問題(錯誤訊息如下)

Arduino:1.8.7 (Windows 8.1), 開發板:"Waveshare BLE400, 32 kB RAM, 256 kB flash (xxac), S130"

草稿碼使用了 33092 bytes (21%) 的程式儲存空間。上限為 151552 bytes。
Open On-Chip Debugger 0.10.0-dev-00254-g696fc0a (2016-04-10-10:13)
Licensed under GNU GPL v2
For bug reports, read
http://openocd.org/doc/doxygen/bugs.html
debug_level: 0
0
cortex_m reset_config sysresetreq
adapter speed: 1000 kHz
nrf51.cpu: target state: halted
target halted due to debug-request, current mode: Thread
xPSR: 0xc1000000 pc: 0x000006d0 msp: 0x000007c0
** Programming Started **
auto erase enabled
wrote 33792 bytes from file C:\Users\BillChou\AppData\Local\Temp\arduino_build_180498/Quickble.ino.hex in 10.864650s (3.037 KiB/s)

** Programming Finished **
** Verify Started **
Error: checksum mismatch - attempting binary compare
diff 0 address 0x0001b001. Was 0x00 instead of 0x80
diff 1 address 0x0001b003. Was 0x00 instead of 0x20
diff 2 address 0x0001b004. Was 0x00 instead of 0x49
diff 3 address 0x0001b005. Was 0x00 instead of 0xd6
diff 4 address 0x0001b006. Was 0x00 instead of 0x01
diff 5 address 0x0001b008. Was 0x00 instead of 0x89
diff 6 address 0x0001b009. Was 0x00 instead of 0xd6
diff 7 address 0x0001b00a. Was 0x00 instead of 0x01
diff 8 address 0x0001b00c. Was 0x00 instead of 0x8b
diff 9 address 0x0001b00d. Was 0x00 instead of 0xd6
diff 10 address 0x0001b00e. Was 0x00 instead of 0x01
diff 11 address 0x0001b02c. Was 0x00 instead of 0x8d
diff 12 address 0x0001b02d. Was 0x00 instead of 0xd6
diff 13 address 0x0001b02e. Was 0x00 instead of 0x01
diff 14 address 0x0001b038. Was 0x00 instead of 0x8f
diff 15 address 0x0001b039. Was 0x00 instead of 0xd6
diff 16 address 0x0001b03a. Was 0x00 instead of 0x01
diff 17 address 0x0001b03c. Was 0x00 instead of 0x91
diff 18 address 0x0001b03d. Was 0x00 instead of 0xd6
diff 19 address 0x0001b03e. Was 0x00 instead of 0x01

diff 20 address 0x0001b040. Was 0x00 instead of 0x93
diff 21 address 0x0001b041. Was 0x00 instead of 0xd6
diff 22 address 0x0001b042. Was 0x00 instead of 0x01
diff 23 address 0x0001b044. Was 0x00 instead of 0x93
diff 24 address 0x0001b045. Was 0x00 instead of 0xd6
diff 25 address 0x0001b046. Was 0x00 instead of 0x01
diff 26 address 0x0001b048. Was 0x00 instead of 0x6d
diff 27 address 0x0001b049. Was 0x00 instead of 0xda
diff 28 address 0x0001b04a. Was 0x00 instead of 0x01
diff 29 address 0x0001b04c. Was 0x00 instead of 0x93
diff 30 address 0x0001b04d. Was 0x00 instead of 0xd6
diff 31 address 0x0001b04e. Was 0x00 instead of 0x01
diff 32 address 0x0001b050. Was 0x00 instead of 0x93
diff 33 address 0x0001b051. Was 0x00 instead of 0xd6
diff 34 address 0x0001b052. Was 0x00 instead of 0x01
diff 35 address 0x0001b058. Was 0x00 instead of 0x93
diff 36 address 0x0001b059. Was 0x00 instead of 0xd6
diff 37 address 0x0001b05a. Was 0x00 instead of 0x01
diff 38 address 0x0001b05c. Was 0x00 instead of 0x93
diff 39 address 0x0001b05d. Was 0x00 instead of 0xd6
diff 40 address 0x0001b05e. Was 0x00 instead of 0x01
diff 41 address 0x0001b060. Was 0x00 instead of 0x93
diff 42 address 0x0001b061. Was 0x00 instead of 0xd6

diff 43 address 0x0001b062. Was 0x00 instead of 0x01
diff 44 address 0x0001b064. Was 0x00 instead of 0x93
diff 45 address 0x0001b065. Was 0x00 instead of 0xd6
diff 46 address 0x0001b066. Was 0x00 instead of 0x01
diff 47 address 0x0001b068. Was 0x00 instead of 0x93
diff 48 address 0x0001b069. Was 0x00 instead of 0xd6
diff 49 address 0x0001b06a. Was 0x00 instead of 0x01
diff 50 address 0x0001b06c. Was 0x00 instead of 0x93
diff 51 address 0x0001b06d. Was 0x00 instead of 0xd6
diff 52 address 0x0001b06e. Was 0x00 instead of 0x01
diff 53 address 0x0001b070. Was 0x00 instead of 0x93
diff 54 address 0x0001b071. Was 0x00 instead of 0xd6
diff 55 address 0x0001b072. Was 0x00 instead of 0x01
diff 56 address 0x0001b074. Was 0x00 instead of 0x93
diff 57 address 0x0001b075. Was 0x00 instead of 0xd6
diff 58 address 0x0001b076. Was 0x00 instead of 0x01
diff 59 address 0x0001b078. Was 0x00 instead of 0x93
diff 60 address 0x0001b079. Was 0x00 instead of 0xd6
diff 61 address 0x0001b07a. Was 0x00 instead of 0x01
diff 62 address 0x0001b07c. Was 0x00 instead of 0x93
diff 63 address 0x0001b07d. Was 0x00 instead of 0xd6
diff 64 address 0x0001b07e. Was 0x00 instead of 0x01
diff 65 address 0x0001b080. Was 0x00 instead of 0x93

diff 66 address 0x0001b081. Was 0x00 instead of 0xd6
diff 67 address 0x0001b082. Was 0x00 instead of 0x01
diff 68 address 0x0001b084. Was 0x00 instead of 0xe5
diff 69 address 0x0001b085. Was 0x00 instead of 0xda
diff 70 address 0x0001b086. Was 0x00 instead of 0x01
diff 71 address 0x0001b088. Was 0x00 instead of 0x93
diff 72 address 0x0001b089. Was 0x00 instead of 0xd6
diff 73 address 0x0001b08a. Was 0x00 instead of 0x01
diff 74 address 0x0001b08c. Was 0x00 instead of 0x93
diff 75 address 0x0001b08d. Was 0x00 instead of 0xd6
diff 76 address 0x0001b08e. Was 0x00 instead of 0x01
diff 77 address 0x0001b090. Was 0x00 instead of 0x93
diff 78 address 0x0001b091. Was 0x00 instead of 0xd6
diff 79 address 0x0001b092. Was 0x00 instead of 0x01
diff 80 address 0x0001b094. Was 0x00 instead of 0x93
diff 81 address 0x0001b095. Was 0x00 instead of 0xd6
diff 82 address 0x0001b096. Was 0x00 instead of 0x01
diff 83 address 0x0001b098. Was 0x00 instead of 0x93
diff 84 address 0x0001b099. Was 0x00 instead of 0xd6
diff 85 address 0x0001b09a. Was 0x00 instead of 0x01
diff 86 address 0x0001b09c. Was 0x00 instead of 0x93
diff 87 address 0x0001b09d. Was 0x00 instead of 0xd6
diff 88 address 0x0001b09e. Was 0x00 instead of 0x01

diff 89 address 0x0001b0a0. Was 0x00 instead of 0x93
diff 90 address 0x0001b0a1. Was 0x00 instead of 0xd6
diff 91 address 0x0001b0a2. Was 0x00 instead of 0x01
diff 92 address 0x0001b0a4. Was 0x00 instead of 0x93
diff 93 address 0x0001b0a5. Was 0x00 instead of 0xd6
diff 94 address 0x0001b0a6. Was 0x00 instead of 0x01
diff 95 address 0x0001b0c0. Was 0x00 instead of 0x05
diff 96 address 0x0001b0c1. Was 0x00 instead of 0x4b
diff 97 address 0x0001b0c2. Was 0x00 instead of 0x06
diff 98 address 0x0001b0c3. Was 0x00 instead of 0x48
diff 99 address 0x0001b0c4. Was 0x00 instead of 0x03
diff 100 address 0x0001b0c5. Was 0x00 instead of 0x33
diff 101 address 0x0001b0c6. Was 0x00 instead of 0x10
diff 102 address 0x0001b0c7. Was 0x00 instead of 0xb5
diff 103 address 0x0001b0c8. Was 0x00 instead of 0x1b
diff 104 address 0x0001b0c9. Was 0x00 instead of 0x1a
diff 105 address 0x0001b0ca. Was 0x00 instead of 0x06
diff 106 address 0x0001b0cb. Was 0x00 instead of 0x2b
diff 107 address 0x0001b0cc. Was 0x00 instead of 0x03
diff 108 address 0x0001b0cd. Was 0x00 instead of 0xd9
diff 109 address 0x0001b0ce. Was 0x00 instead of 0x04
diff 110 address 0x0001b0cf. Was 0x00 instead of 0x4b
diff 111 address 0x0001b0d1. Was 0x00 instead of 0x2b

diff 112 address 0x0001b0d3. Was 0x00 instead of 0xd0
diff 113 address 0x0001b0d4. Was 0x00 instead of 0x98
diff 114 address 0x0001b0d5. Was 0x00 instead of 0x47
diff 115 address 0x0001b0d6. Was 0x00 instead of 0x10
diff 116 address 0x0001b0d7. Was 0x00 instead of 0xbd
diff 117 address 0x0001b0d8. Was 0x00 instead of 0x3c
diff 118 address 0x0001b0d9. Was 0x00 instead of 0x21
diff 119 address 0x0001b0db. Was 0x00 instead of 0x20
diff 120 address 0x0001b0dc. Was 0x00 instead of 0x3c
diff 121 address 0x0001b0dd. Was 0x00 instead of 0x21
diff 122 address 0x0001b0df. Was 0x00 instead of 0x20
diff 123 address 0x0001b0e4. Was 0x00 instead of 0x06
diff 124 address 0x0001b0e5. Was 0x00 instead of 0x48
diff 125 address 0x0001b0e6. Was 0x00 instead of 0x07
diff 126 address 0x0001b0e7. Was 0x00 instead of 0x49
diff 127 address 0x0001b0e8. Was 0x00 instead of 0x10
More than 128 errors, the rest are not printed.
embedded:startup.tcl:454: Error: ** Verify Failed **
in procedure 'program'
in procedure 'program_error' called at file "embedded:startup.tcl", line 498
at file "embedded:startup.tcl", line 454
選定的序列埠 at file "embedded:startup.tcl", line 454
不存在，或是你還沒連接板子。

This report would have more information with
"Show verbose output during compilation"
option enabled in File -> Preferences.

A: 進行燒錄 softDevice 動作
nRF5FlashSoftDevice.jar 可在 QuickBLE EVB github 上找到

Flashing a SoftDevice

1. `cd <SKETCHBOOK>`, where `<SKETCHBOOK>` is your Arduino Sketch folder:

- OS X: `~/Documents/Arduino`
- Linux: `~/Arduino`
- Windows: `~/Documents/Arduino`

2. Create the following directories: `tools/nRF5FlashSoftDevice/tool/`
3. Download nRF5FlashSoftDevice.jar to `<SKETCHBOOK>/tools/nRF5FlashSoftDevice/tool/`
4. Restart the Arduino IDE
5. Select your nRF board from the Tools -> Board menu
6. Select a SoftDevice from the Tools -> "SoftDevice: " menu

7. Select a Programmer (J-Link, ST-Link V2, or CMSIS-DAP) from the Tools -> "Programmer: " menu
8. Select Tools -> nRF5 Flash SoftDevice
9. Read license agreement
10. Click "Accept" to accept license and continue, or "Decline" to decline and abort
11. If accepted, SoftDevice binary will be flashed to the board

Q: SoftDevice 無法燒錄問題

A: 因 Downloading 'http://www.nordicsemi.com/eng/content/download/95150/1606929/file/s130_nrf51_2.0.0.zip' ...官方連結移除
因此需要手動加入 s130_nrf51_2.0.0.zip。
C:\Users\<USERNAME>\AppData\Local\Arduino15\packages\sandeepmistry\hardware\nRF5\0.5.1/cores/nRF5/SDK/components/softdevice/s130/hex/s130_nrf51_2.0.1_softdevice.hex
s130_nrf51_2.0.1_softdevice.hex 在 QuickBLE EVB github 內可以找到