

C:\Users\tj\Documents\Portenta_H7\FlashLoader>dfu-util --list

dfu-util 0.10-dev

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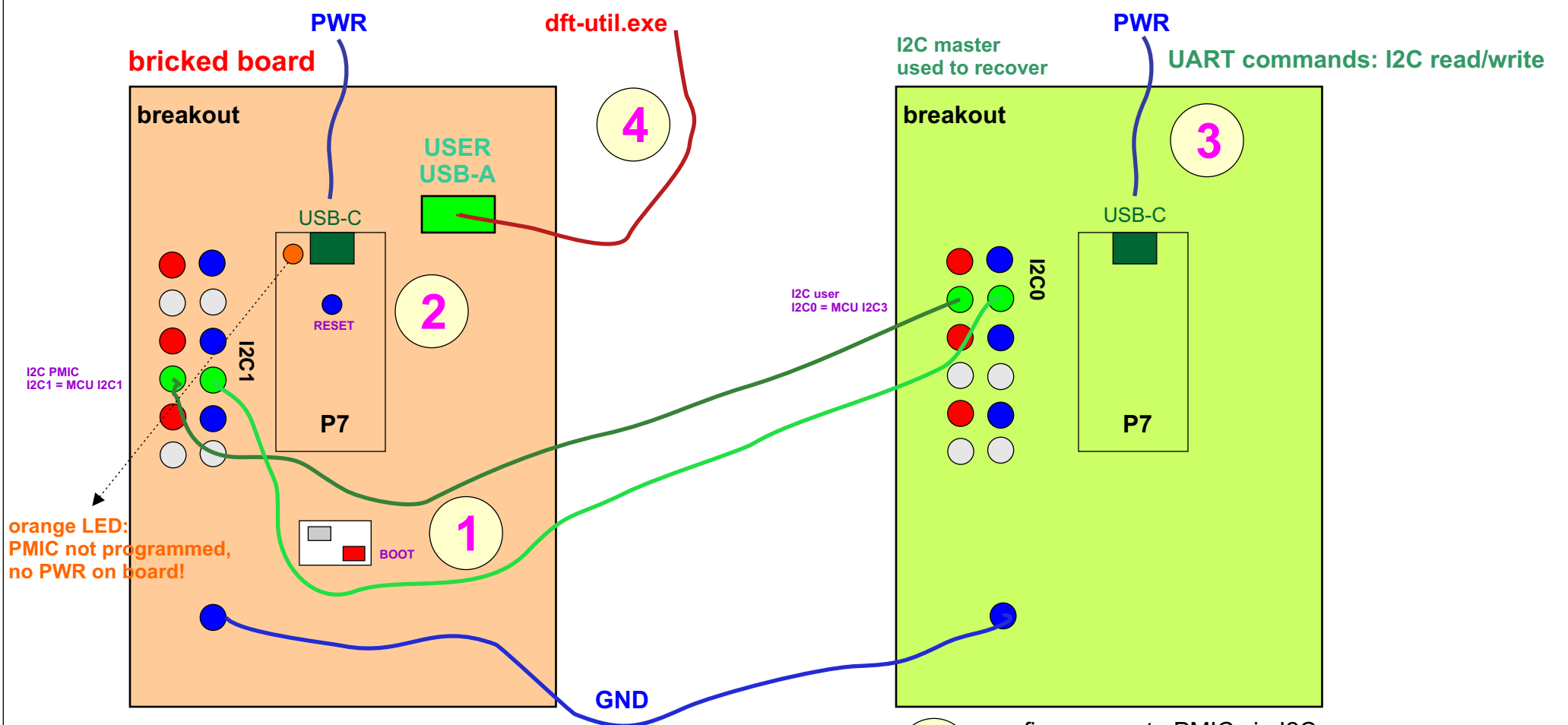
Found DFU: [0483:df11] ver=0200, devnum=45, cfg=1, intf=0, path="1-3.2.3", alt=1, name="@Option Bytes /0x5200201C/01*128 e", serial="200364500070"
Found DFU: [0483:df11] ver=0200, devnum=45, cfg=1, intf=0, path="1-3.2.3", alt=0, name="@Internal Flash /0x08000000/16*128Kg", serial="200364500070"

C:\Users\tj\Documents\Portenta_H7\FlashLoader>dfu-util -a 0 -d 0483:df11 --dfuse-address=0x08000000:leave -D PortentaH7_CubeIDE_CM7.bin
dfu-util 0.10-dev

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Warning: Invalid DFU suffix signature
A valid DFU suffix will be required in a future dfu-util release
Opening DFU capable USB device...
Device ID 0483:df11
Device DFU version 011a
Claiming USB DFU Interface...
Setting Alternate Interface #0 ...
Determining device status...
DFU state(2) = dfuIDLE, status(0) = No error condition is present
DFU mode device DFU version 011a
Device returned transfer size 1024
DfuSe interface name: "Internal Flash"
Downloading element to address = 0x08000000, size = 143136
Erase [=====] 100% 143136 bytes
Erase done.
Download [=====] 100% 143136 bytes
Download done.
File downloaded successfully
Error during download get_status

C:\Users\tj\Documents\Portenta_H7\FlashLoader>



1

change BOOT DIP switch

2

press reset - let boot MCU into STM Bootloader

4

dft-util --list

flash FW, bootloader

dfu-util -a 0 -d 0483:df11 --dfuse-address=0x08000000:leave -D BIN_FILE.bin

5

change BOOT DIP switch back, reset - system running

3

configure remote PMIC via I2C

I2C write: slave address: $0x08 \ll 1$

$0x4F = 0$

$0x4C = 5$

$0x4D = 0xF$

$0x52 = 9$

$0x9C = 0x20$

restore PWR on broken board

$0x42 = 0$

$0x94 = 0xA0$

$0x3B = 0xF$

$0x35 = 0xF$

$0x50 = 0xF$

Recover Portenta H7

tjaekel, 2022