

1. Install `stm32flash` either as binary package provided by the distribution (`sudo apt install stm32flash`) or from <https://sourceforge.net/projects/stm32flash/> using `make && make install`
2. Clone the https://github.com/trabucayre/ftdi_cpu_prog/ repository and compile `ftdi_cpu_prog` following the instructions given the the README file.
3. copy `ftdi_cpu_prog` and `stm32flash.sh` to a location within the path, for example `/usr/local/bin`, making sure that the script is executable (`chmod 755 /usr/local/bin/stm32flash.sh`)

In case the component is properly identified but fails to program, with error messages such as

```
Write to memory
```

```
Erasing memory
```

```
Got NACK from device on command 0x31
```

```
Failed to write memory at address 0x08000000
```

after detecting the component reference

```
Using Parser : Raw BINARY
```

```
Device ID : 0x0458 (STM32F410xx)
```

```
- RAM : 32KiB (12288b reserved by bootloader)
```

```
- Flash : 128KiB (size first sector: 1x16384)
```

make sure that `modemmanager` is **NOT** installed. This program intercepts virtual serial port transactions and corrupts programming messages.