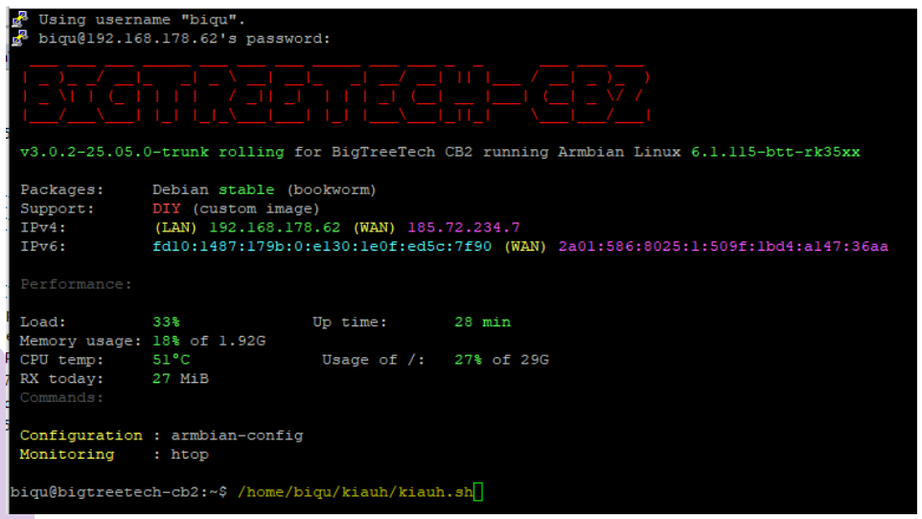
Manually flashing MCUs using KIAUH

If the Klipper version on the MCUs is significantly older than the one on the host, Klipper will return an error, and flashing via the macros in the Mainsail console will no longer be possible. The MCUs must then be flashed manually.
This document outlines the steps required to flash the MCUs using KIAUH

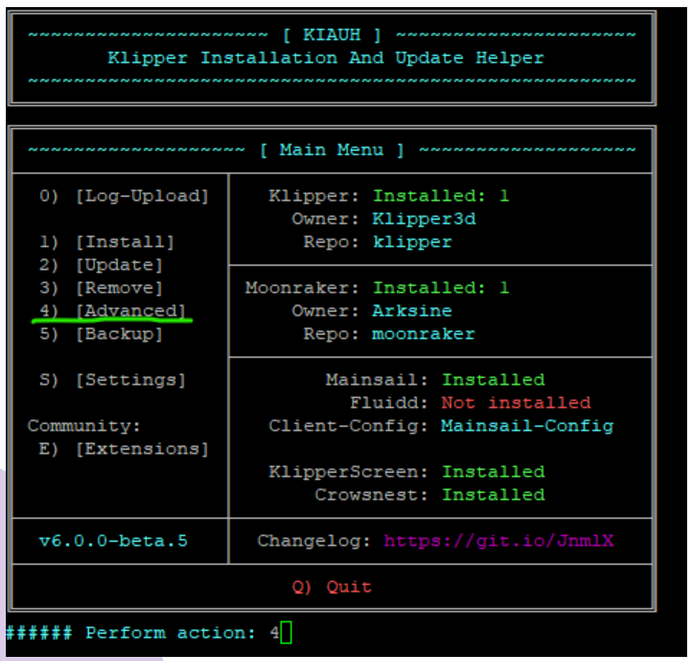
1. Access your 3D-printer via SSH. If you hadn't changed the default user and password from BTT they are still like this:

   login: biqu
   password: biqu

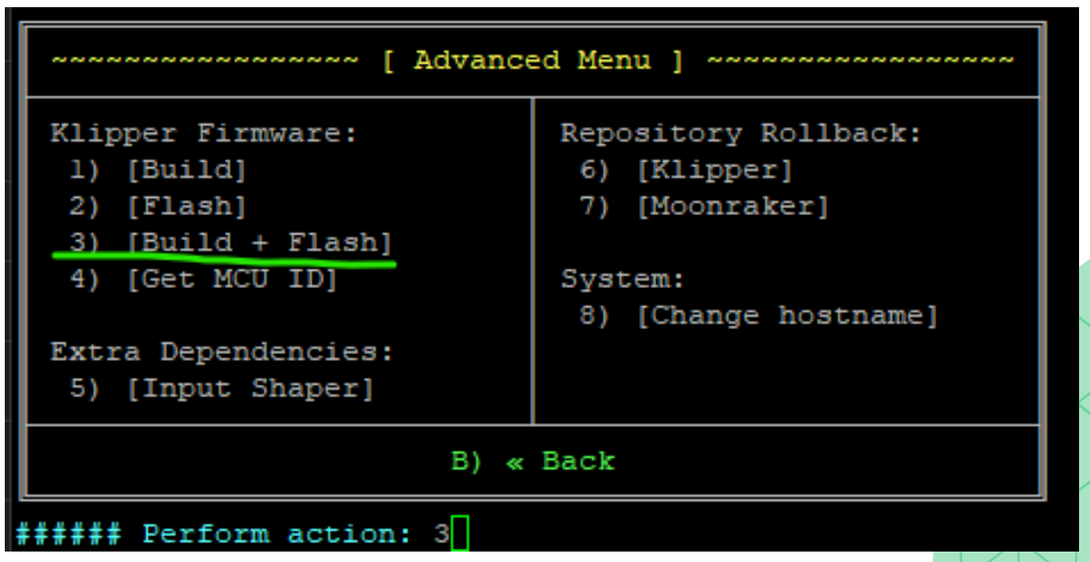
2. Execute the following command: */home/biqu/kiauh/kiauh.sh*



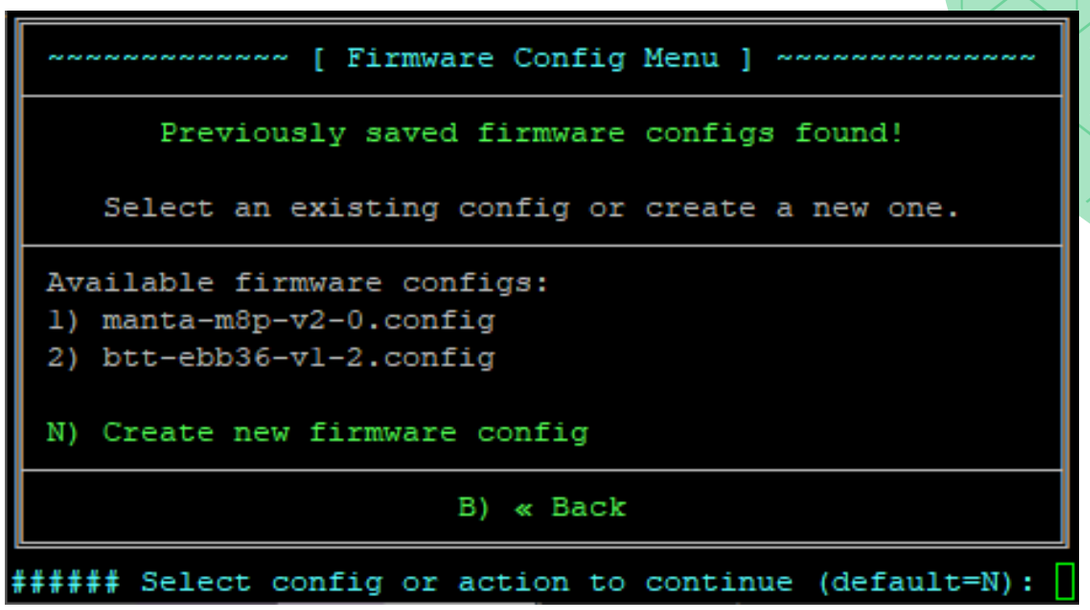
3. Choose option '4' [Advanced]



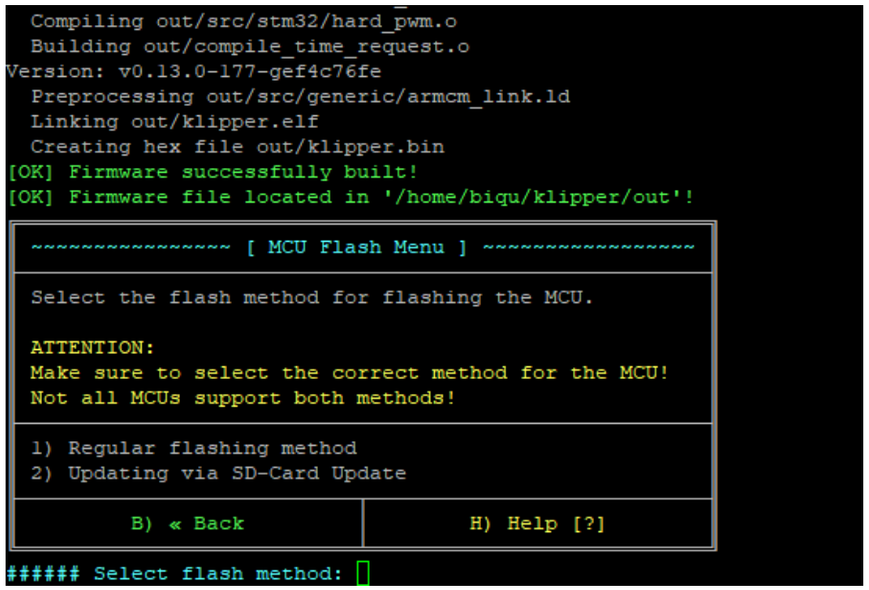
4. Choose option '3' [Build + Flash]



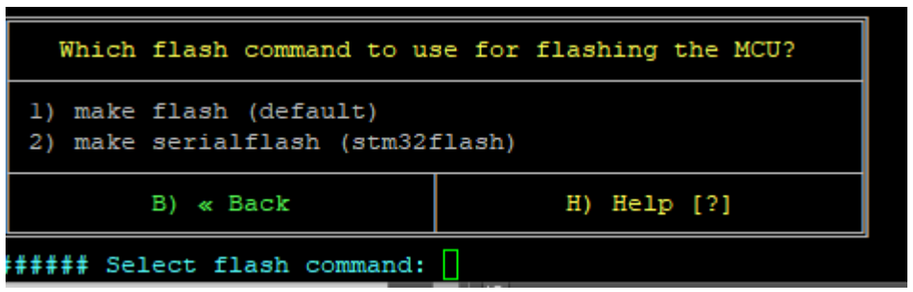
5. Choose a configuration option according to the board you want to flash. In the picture below, option 1) is for the BTT Manta M8P V2 mainboard, and option 2) is for the BTT EBB36 V1.2 toolboards



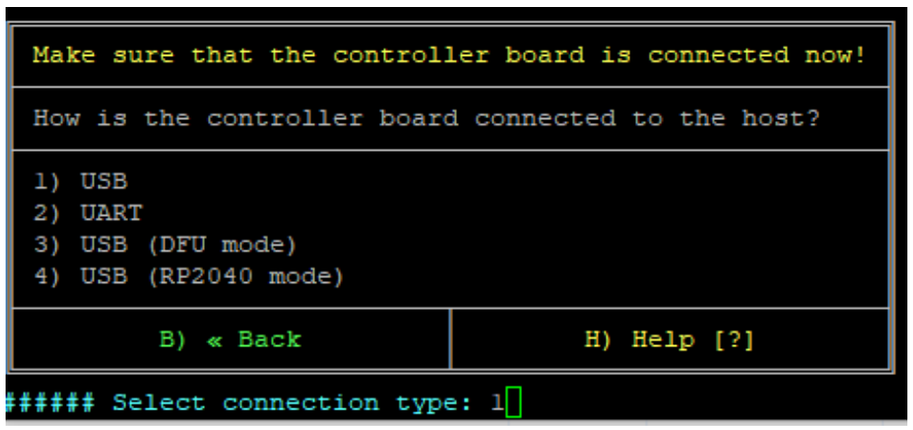
6. After the firmware build is complete, you must choose a flashing method. Select option 1) Regular flashing method:



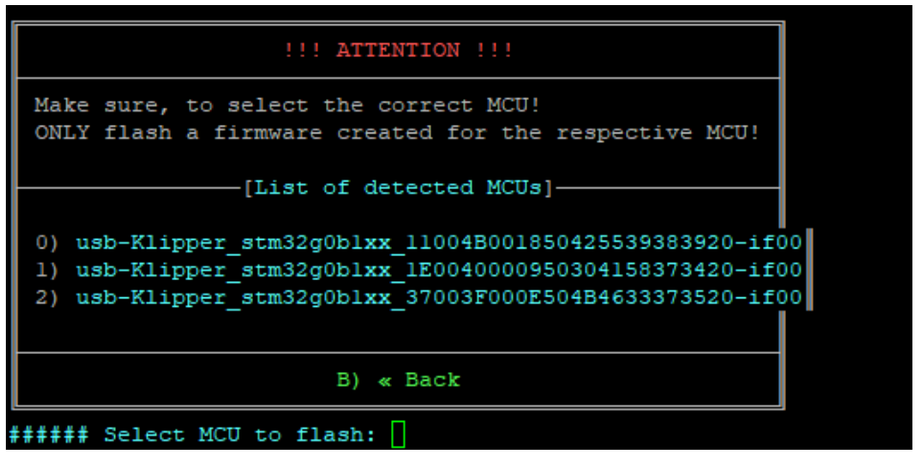
7. Choose 1) make flash (default):



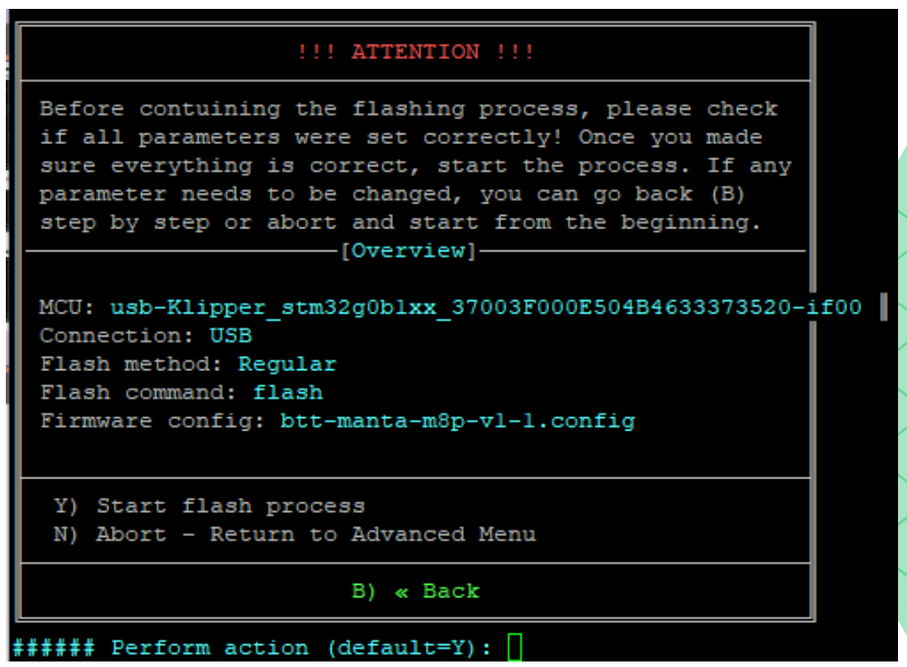
8. The MCUs are connected via USB to the host, choose 1) USB:



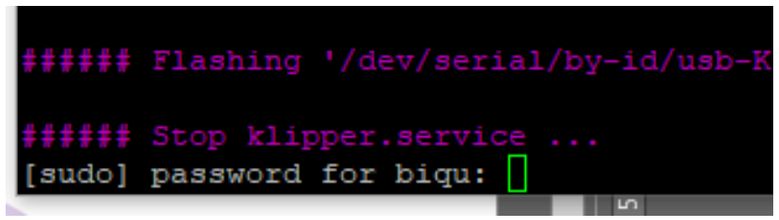
9. Choose which MCU do you want to flash. MAKE SURE YOU SELECT THE CORRECT ONE!



10. Type 'Y' for starting the flashing process:



11. The Password is again requested. Type in the same password from Step1 :



12. If the flashing didn't succeed, try again until it works:

```
Failed to flash to /dev/serial/by-id/usb-Klipper_stm32g0bl
fu-util

If the device is already in bootloader mode it can be flas
following command:
make flash FLASH_DEVICE=0483:df11
OR
make flash FLASH_DEVICE=1209:beba

If attempting to flash via 3.3V serial, then use:
make serialflash FLASH_DEVICE=/dev/serial/by-id/usb-Klippe

make: *** [src/stm32/Makefile:107: flash] Error 255

###### Start klipper.service ...
[OK] OK!

[ERROR] Flashing failed!
[ERROR] See the console output above!
```

13. Once the console generates a message with 'Download,' like the one shown in the image below, it means the flashing was successful. Any other errors listed afterward can be ignored

```
Download        [                         ]   0%            0 bytes
Download        [=                        ]   4%         2048 bytes
Download        [==                       ]   9%         4096 bytes
Download        [===                      ]  12%         5120 bytes
Download        [====                     ]  17%         7168 bytes
Download        [====                     ]  19%         8192 bytes
Download        [=====                    ]  22%         9216 bytes
Download        [======                   ]  24%        10240 bytes
Download        [=======                  ]  29%        12288 bytes
Download        [========                 ]  32%        13312 bytes
Download        [=========                ]  37%        15360 bytes
Download        [==========               ]  42%        17408 bytes
Download        [===========              ]  44%        18432 bytes
Download        [============             ]  49%        20480 bytes
Download        [=============            ]  52%        21504 bytes
Download        [==============           ]  57%        23552 bytes
Download        [===============          ]  62%        25600 bytes
Download        [================         ]  64%        26624 bytes
Download        [=================        ]  69%        28672 bytes
Download        [==================       ]  72%        29696 bytes
Download        [====================     ]  77%        31744 bytes
Download        [=====================    ]  82%        33792 bytes
Download        [======================   ]  84%        34816 bytes
Download        [=======================  ]  89%        36864 bytes
Download        [======================== ]  92%        37888 bytes
Download        [=========================] 97%        39936 bytes
Download        [=========================] 100%       41036 bytes
Download done.
File downloaded successfully
```

14. Repeat the steps described here for each MCU that must be flashed

Xplorer

FORMBOT

Happy printing!

Contact us:

Jinhua Xinke 3D Technology Co., Ltd.
Address: 3rd Floor, No. 227, Wulian Street, Jindong District, Jinhua, Zhejiang, China
Tel.: +86 579 82899110
Email: sales@formbot3d.com Sales Department
info@formbot3d.com General Information
service@formbot3d.com Customer Service
Skype ID: fang.ada21