# Virtual 3D Printer

Starting with the default configuration files found in version 2.0.7.2 of the Marlin firmware, applying the changes in this document will result in the configuration necessary to run the virtual printer.

Note the files in **Marlin/Virtual Printer/2.0.7.2** already have these configuration changes applied.

## Configuration\_adv.h Changes

1. Uncomment **#define FAN\_KICKSTART\_TIME 100**
2. Uncomment the line **#define FAN\_MIN\_PWM 50** and change the value to 34
3. Uncomment the line **#define FAN\_MAX\_PWM 128** and change the value to 255
4. Uncomment the line **#define QUICK\_HOME**
5. Uncomment **#define LCD\_INFO\_MENU**
6. Uncomment **#define STATUS\_MESSAGE\_SCROLLING**
7. Uncomment **#define SDCARD\_READONLY**
8. Uncomment **#define LONG\_FILENAME\_HOST\_SUPPORT**
9. Uncomment **#define SCROLL\_LONG\_FILENAMES**
10. Uncomment **#define BABYSTEPPING**
11. Uncomment **#define DOUBLECLICK\_FOR\_Z\_BABYSTEPPING**

## Configuration.h Changes

1. Find **#define STRING\_CONFIG\_H\_AUTHOR** and change the value to **“(Daniel Porrey, 3DP-Tech)"**
2. Uncomment **#define SHOW\_CUSTOM\_BOOTSCREEN**
3. Uncomment **#define CUSTOM\_STATUS\_SCREEN\_IMAGE**
4. Find **#define BAUDRATE** and change the value to **500000**
5. Find **#define MOTHERBOARD** and change the value to **BOARD\_CUSTOM**
6. Uncomment **#define CUSTOM\_MACHINE\_NAME** and change the name to "**Virtual 3DP**"
7. Uncomment **#define MACHINE\_UUID "00000000-0000-0000-0000-000000000000"** and change the value to "**3f756d04-a356-4632-ac29-15a5529378b4**"
8. Find **#define TEMP\_SENSOR\_BED** and change the value to **1**
9. Find **#define BED\_MAXTEMP** and change the value to **125**
10. Uncomment **#define PID\_EDIT\_MENU**
11. Uncomment **#define PID\_AUTOTUNE\_MENU**
12. Uncomment **#define PIDTEMPBED**
13. Find **#define PREVENT\_COLD\_EXTRUSION** and comment the line (add // to the beginning)
14. Find **#define PREVENT\_LENGTHY\_EXTRUDE** and comment the line (add // to the beginning)
15. Uncomment **#define X\_DRIVER\_TYPE A4988**
16. Uncomment **#define Y\_DRIVER\_TYPE A4988**
17. Uncomment **#define Z\_DRIVER\_TYPE A4988**
18. Uncomment **#define E0\_DRIVER\_TYPE A4988**
19. Uncomment **#define ENDSTOP\_INTERRUPTS\_FEATURE**
20. Find **#define DEFAULT\_AXIS\_STEPS\_PER\_UNIT** and change the values to **{ 400, 400, 400, 93 }**
21. Find **#define DEFAULT\_MAX\_FEEDRATE** and change the values to **{ 100, 100, 100, 100 }**
22. Find **#define MAX\_FEEDRATE\_EDIT\_VALUES** and change the values to **{ 10, 10, 10, 50 }**
23. Find **#define DEFAULT\_MAX\_ACCELERATION** and change values to **{ 500, 500, 500, 500 }**
24. Find **#define DEFAULT\_ACCELERATION** and change the value to **500**
25. Find **#define DEFAULT\_RETRACT\_ACCELERATION** and change the value to **500**
26. Find **#define DEFAULT\_TRAVEL\_ACCELERATION** and change the value to **500**
27. Find **#define DEFAULT\_XJERK** and change the value to **0.3**
28. Find **#define DEFAULT\_YJERK** and change the value to **0.3**
29. Find **#define MAX\_JERK\_EDIT\_VALUES** and change the values to **{ 0.6, 0.6, 0.6, 10 }**
30. Find **#define JUNCTION\_DEVIATION\_MM** and change the value to 0.08
31. Find **#define INVERT\_X\_DIR** and change the value to **true**
32. Find **#define INVERT\_Y\_DIR** and change the value to **false**
33. Find **#define INVERT\_E0\_DIR** and change the value to **true**
34. Find **#define X\_BED\_SIZE** and change the value to **190**
35. Find **#define Y\_BED\_SIZE SIZE** and change the value to **190**
36. Find **#define Z\_MAX\_POS** and change the value to **240**
37. Find **HOMING\_FEEDRATE\_XY** and change the values to **(20\*60}**
38. Uncomment **#define EEPROM\_SETTINGS**
39. Uncomment **#define EEPROM\_AUTO\_INIT**
40. Find **#define PREHEAT\_1\_TEMP\_HOTEND** and change the value to **207**
41. Find **#define PREHEAT\_1\_TEMP\_BED** and change the value to **60**
42. Find **#define PREHEAT\_1\_TEMP\_CHAMBER** and change the value to **0**
43. Find **#define PREHEAT\_1\_FAN\_SPEED** and change the value **255**
44. Find **#define PREHEAT\_2\_TEMP\_BED** and change the value to **70**
45. Find **#define PREHEAT\_2\_TEMP\_CHAMBER** and change the value to **0**
46. Find **#define PREHEAT\_2\_FAN\_SPEED** and change the value to **255**
47. Uncomment **#define SDSUPPORT**
48. Uncomment **#define INDIVIDUAL\_AXIS\_HOMING\_MENU**
49. Uncomment **#define SPEAKER**
50. Uncomment **#define CR10\_STOCKDISPLAY**
51. Uncomment **#define FAN\_SOFT\_PWM**