-, Use VSCode +PlatformIO to compile Marlin2.0

1.Download the Marlin2.0 firmware : https://github.com/Msg001/Marlin-bugfix-2.0-bigu

When the download is complete, unzip it for standby application.

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2.Download the Vscode from https://code.visualstudio.com/Download .

Note : According to your computer to choose the relate version . Such as the Win7 64 bit operation ,choose the Windows 7,8,10 User Installer 64bit 。

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After the download is completed, double-click the installation. After the installation, open VSCode.

3.You also need to install the PlatformIO plugin, click on the steps below . Click on the step 1 in the figure below, enter PlatformIO in step 2 and click step 3 Install to install.





After the download is complete, you need to Reload.

After Reload, you will be prompted to install PlatformIO Core. Please wait.

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After the installation is successful, you need to Reload it again, and then PlatformIO is installed.

PRORLEMS <b>OUTRUT</b> DEBUG CONSOLE TERMINAL	PlatformIO Installation 🍷 🖆 🛆 🗙
Installing PlatformIO Core	
Please do not close this window and do not open other folders until this process is completed.	
PlatformIO IDE installed successfully.	
Please restart VSCode.	
	PlatformIO IDE has been successfully installed! Plate reload
	window
	Source: PlatformIO IDE (Extension) Reload Now

4.In the lower left corner of VSCode, you can see the icon (1), which is PlatformIO plug-in. Click (2) Open Project to Open the Project.



Find the marlin2.0 source directory we extracted In the very first step, and click Open.

Open PlatformIO	) Project	×
	New 🖉 Rename 🗍 Duplicate 🖻 Reveal	
Favorites Use ☆ to add folder Places ふ Administrator.SKSQ 9C2P1259U21 ① Projects Devices I Windows7 I 软件 I 软件备份 I 文档 I C:\ I H:\	C: / Users / Administrator.SKSQ9C2P1259U21 / Desktop / 1 n-bugfix-2.0-biqu-master / Marlin-bugfix-2.0-biqu-master D: buildroot docs Marlin LICENSE platformio.ini process-palette.json README.md	vlarli
	Cancel Open "Marlin-bugfix-2.0-biqu-maste	r

After opening the project, go to the platformio.ini file and change the default environment from megaatmega2560 to LPC1768, env\_default = LPC1768



Then go to the configuration.h file and modify it

#define SERIAL\_PORT -1

#define SERIAL\_PORT\_2 0

#define BAUDRATE 115200

#define MOTHERBOARD BOARD\_BIQU\_SKR\_V1\_1



After the modification is completed, press Ctrl+Alt+B, platformio will automatically download the compile component and then compile.

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Linking .pioenvs\LPC1768\firmware.elf		
Checking size .pioenvs\LPC1768\firmwar	e.elf	
Building .pioenvs\LPC1768\firmware.bin		
Memory Usage -> http://bit.ly/pio-memo	ry-usage	
DATA: [== ] 23.2% (used 756	4 bytes from 32568 bytes)	
PROGRAM: [== ] 20.5% (used 973	68 bytes from 475136 bytes)	
		== [SUCCESS] Took 179.05 second
		======= [SUMMARY] =======
Environment megaatmega2560	[SKIP]	
Environment megaatmega1280	[SKIP]	
Environment at90usb1286_cdc	[SKIP]	
Environment at90usb1286_dfu	[SKIP]	
Environment DUE	[SKIP]	
Environment DUE_USB	[SKIP]	
Environment DUE_debug	[SKIP]	
Environment LPC1768	[SUCCESS]	
Environment LPC1769	[SKIP]	
Environment melzi	[SKIP]	
Environment melzi_optiboot	[SKIP]	
Environment rambo	[SKIP]	
Environment sanguino_atmega644p	[SKIP]	
Environment sanguino_atmega1284p	[SKIP]	
Environment STM32F1	[SKIP]	
Environment STM32F4	[SKIP]	
Environment ARMED	[SKIP]	
Environment teensy35	[SKIP]	
Environment malyanm200	[SKIP]	
Environment esp32	[SKIP]	
Environment fysetc_f6_13	[SKIP]	
		= [SUCCESS] Took 179.08 second
Terminal will be reused by tasks, pres	s any key to close it.	

After the compilation is successful, a firmware.bin file will be generated in the .pioenvs\LPC1768 directory. We will copy this file to the TF card of the motherboard, and then reset the motherboard, so that the firmware is burned into the motherboard. 5. Online printing, the first installation of marlin2.0, the computer identification motherboard needs to install usb to serial port driver, in the directory of the firmware as shown below. Because its path is too long, we copy it to an easy to find location, copy it to the desktop.

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ougfix-2.0-biqu-master 🕨 Ma	arlin-bugfix-2.0-biqu-master 🕨 M	larlin ▶ src ▶ HAL	HAL_LPC1768 ▶ wir	1_usb_driver
工具(T) 帮助(H)				
共享▼ 打印 新建工	文件夹			
名称	修改日期	类型	大小	
Ipc176x_usb_driver.inf	2018/12/22 10:0	08 安装信息	1 KB	

Open the Device manager, you can see that there is an unrecognized Marlin USB Device, click to update the driver software.

🛃 设备管理器	
文件(F) 操作(A) 查看(V)	帮助(H)
🧇 🌒 🖬 🗐 📝 🖬	
▲ 🚔 SKSQ9C2P1259U21	
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∬ Manin USALLA	更新驱动程序软件(P)
	禁用(D)
	(1)
	扫描检测硬件改动(A)
▶ 📕 系统设备	<b>属性(R)</b>
▶ 🖳 显示适配器	
-	
2	

Browse the computer to find the driver software.



Select the path as the directory where the lpc176x\_usb\_driver.inf driver is located. We copied it to the desktop before, so select the desktop location : C:\Users\(Users Name)\Desktop and click Next. Check with the below picture .

	X
G 更新驱动程序软件 - Marlin USB Device	
浏览计算机上的驱动程序文件	
在以下位置搜索驱动程序软件: C:\Users\Administrator.SKSQ9C2P1259U21\Desktop	
☑ 包括子文件夹(I)	
▲ 从计管机的设备驱动程序列表中选择(I)	
此列表将显示与该设备兼容的已安装的驱动程序软件,以及与该设备处于同一类别下的 所有驱动程序软件。	
[[N]	取消

If you have firewall alerts, choose to always install this driver software.



Prompt has been successfully updated driver software, then the driver has been selected successfully, remember the port number, I am COM29.

	×
更新驱动程序软件 - Marlin USB Serial (COM29)	
Windows 已经成功地更新驱动程序文件	
Windows 已经完成安装此设备的驱动程序软件:	
Marlin USB Serial	
	关闭(C)

Open the printrun online printing software, take the printrun as an example, select Port COM29, @115200, and then click Connect.



On the right, you can see Printer is now online. This means that you have successfully connected to the Printer. Now you can use your computer to control the Printer

