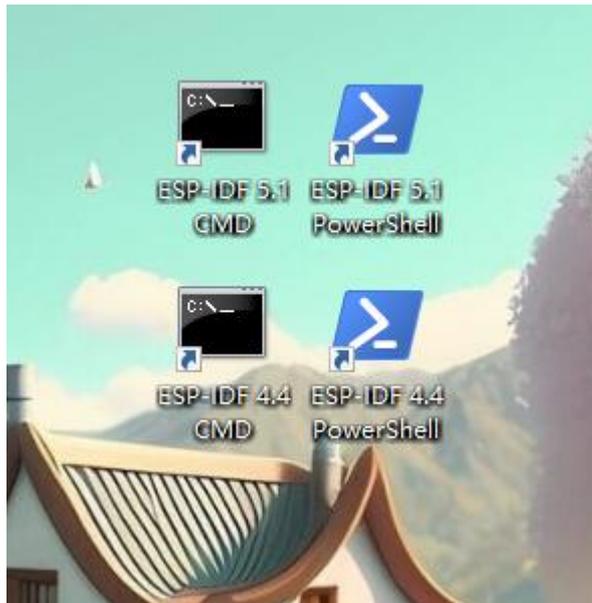


## Windows 下两个版本的 ESP-IDF 切换

本文来源于 [www.aluoyun.cn](http://www.aluoyun.cn)

最近尝试使用 ESP32C6,原来安装的 ESP-IDF 4.4 并不支持这个芯片, 于是新安装了 ESP-IDF 5.1。



```
ESP-IDF 5.1 CMD - "D:\ESP511\Espressif\idf_cmd_init.bat" esp-idf-35a93c05b7404cf8a6c52d1049c2642a
D:\ESP511\Espressif\tools\esp32ulp-elf\2.35_20220830\esp32ulp-elf\bin
D:\ESP511\Espressif\tools\cmake\3.24.0\bin
D:\ESP511\Espressif\tools\openocd-esp32\v0.12.0-esp32-20230419\openocd-esp32
D:\ESP511\Espressif\tools\ninja\1.10.2\
D:\ESP511\Espressif\tools\idf-exe\1.0.3\
D:\ESP511\Espressif\tools\ccache\4.8\ccache-4.8-windows-x86_64
D:\ESP511\Espressif\tools\dfu-util\0.11\dfu-util-0.11-win64
D:\ESP511\Espressif\frameworks\esp-idf-v5.1.1\tools

Checking if Python packages are up to date...
Constraint file: D:\ESP511\Espressif\espidf.constraints.v5.1.txt
Requirement files:
- D:\ESP511\Espressif\frameworks\esp-idf-v5.1.1\tools\requirements\requirements.
Python being checked: D:\ESP511\Espressif\python_env\idf5.1_py3.11_env\Scripts\py
Python requirements are satisfied.

Detected installed tools that are not currently used by active ESP-IDF version.
For removing old versions of idf-driver, idf-python-wheels, riscv32-esp-elf-gdb,
tensa-esp32s2-elf use command 'python.exe D:\ESP511\Espressif\frameworks\esp-idf-
For free up even more space, remove installation packages of those tools. Use op
frameworks\esp-idf-v5.1.1\tools\idf_tools.py uninstall --remove-archives'.

Done! You can now compile ESP-IDF projects.
Go to the project directory and run:

idf.py build

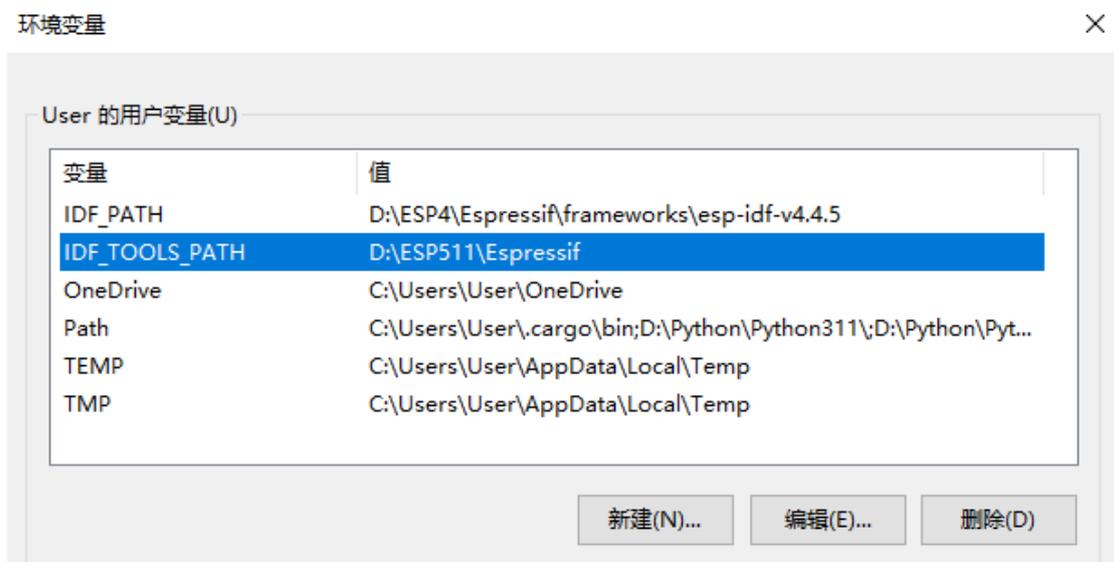
D:\ESP511\Espressif\frameworks\esp-idf-v5.1.1>
```

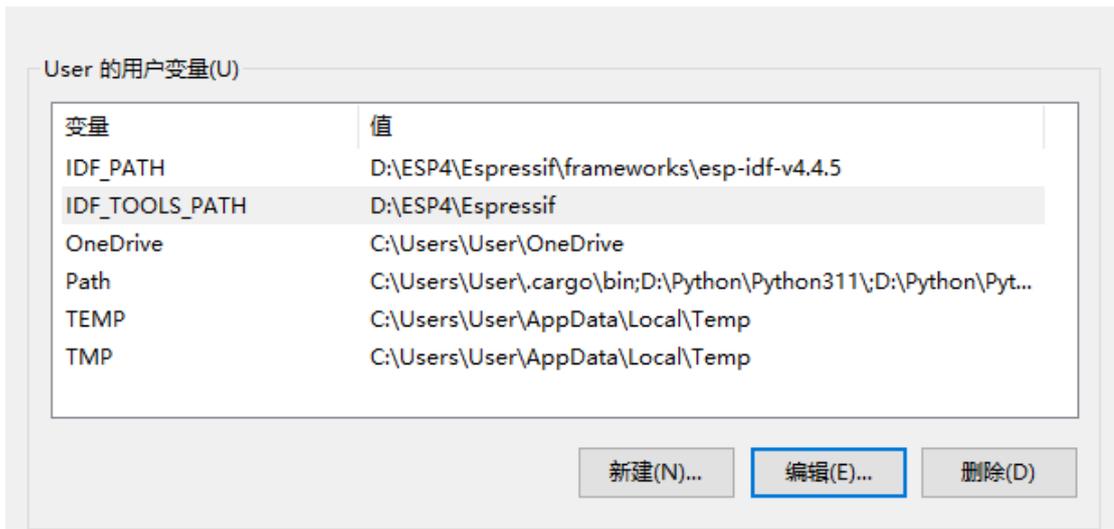
后来发现旧的项目用 ESP-IDF 5.1 并不能容，编译出错。想用回 ESP-IDF 4.4。结果发现 ESP-IDF 4.4 无法使用了。

```
ESP-IDF 4.4 CMD
Setting PYTHONNOUSERSITE, was not set
Using Python in D:\ESP4\Esspressif\frameworks\esp-idf-v4.4.5\
'mull' 不是内部或外部命令，也不是可运行的程序
或批处理文件。
Using Git in D:\ESP4\Esspressif\tools\idf-git\2.39.2\cmd\
git version 2.39.2.windows.1

D:\ESP4\Esspressif\frameworks\esp-idf-v4.4.5>
```

一时间没有找到好的解决办法，以于又重新安装 ESP-IDF 4.4。后来想想每次切换都得重新安装，费时。最后发现原来只要修改环境变量“IDF\_TOOLS\_PATH”想要的版本的路径即可。





这么一改，ESP-IDF 就可以由原来的 5.1 切换为 4.4 了。不用重新安装，省了不少时间。虽然还有那么一丁点的麻烦。

```

ESP-IDF 4.4 CMD - "D:\ESP4\Esspressif\idf_cmd_init.bat" esp-idf-7bc7ed10c7bf621c8356727e77a9aa53
git version 2.39.2.windows.1
Setting IDF_PATH: D:\ESP4\Esspressif\frameworks\esp-idf-v4.4.5

Adding ESP-IDF tools to PATH..
Not using an unsupported version of tool cmake found in PATH: 2.8.7.
D:\ESP4\Esspressif\tools\xtensa-esp-elf-gdb\11.2_20220823\xtensa-esp-elf-gdb\bin
D:\ESP4\Esspressif\tools\riscv32-esp-elf-gdb\11.2_20220823\riscv32-esp-elf-gdb\bin
D:\ESP4\Esspressif\tools\xtensa-esp32-elf\esp-2021r2-patch5-8.4.0\xtensa-esp32-elf\bin
D:\ESP4\Esspressif\tools\xtensa-esp32s2-elf\esp-2021r2-patch5-8.4.0\xtensa-esp32s2-elf\bin
D:\ESP4\Esspressif\tools\xtensa-esp32s3-elf\esp-2021r2-patch5-8.4.0\xtensa-esp32s3-elf\bin
D:\ESP4\Esspressif\tools\riscv32-esp-elf\esp-2021r2-patch5-8.4.0\riscv32-esp-elf\bin
D:\ESP4\Esspressif\tools\esp32ulp-elf\2.35_20220830\esp32ulp-elf\bin
D:\ESP4\Esspressif\tools\cmake\3.23.1\bin
D:\ESP4\Esspressif\tools\openocd-esp32\v0.11.0-esp32-20221026\openocd-esp32\bin
D:\ESP4\Esspressif\tools\ninja\1.10.2\
D:\ESP4\Esspressif\tools\idf-exe\1.0.3\
D:\ESP4\Esspressif\tools\ccache\4.3\ccache-4.3-windows-64
D:\ESP4\Esspressif\tools\dfu-util\0.9\dfu-util-0.9-win64
D:\ESP4\Esspressif\frameworks\esp-idf-v4.4.5\tools

Checking if Python packages are up to date...
Python requirements from D:\ESP4\Esspressif\frameworks\esp-idf-v4.4.5\requirements.txt are satisfied.

Done! You can now compile ESP-IDF projects.
Go to the project directory and run:

idf.py build

D:\ESP4\Esspressif\frameworks\esp-idf-v4.4.5>

```