## Raspberry Pi system expansion

This document briefly describes how to expand the system. Because the factory image only has 15G, and the SD card system is 32G. If you want to use the remaining space, you can read this tutorial.

- 1. First, enter the Raspberry Pi system. There are many ways to do this, which are not described in this document.
- 2. Then enter the command to query the space

```
df -h
```

You can see the system space

```
pi@raspberrypi:~$ df -h
                Size Used Avail Use% Mounted on
Filesystem
                      13G 1.8G 88% /
/dev/root
                15G
devtmpfs
                642M
                         0 642M
                                    0% /dev
tmpfs
                900M
                         Θ
                            900M
                                    0% /dev/shm
tmpfs
                360M
                      1.1M
                            359M
                                    1% /run
                5.0M
                      4.0K
                            5.0M
                                    1% /run/lock
/dev/mmcblk0p1
                253M
                       31M
                            222M
                                   13% /boot
tmpfs
                180M
                       24K
                            180M
                                    1% /run/user/1000
```

3. Enter the following command to expand capacity

```
sudo raspi-config
```

You will enter this interface

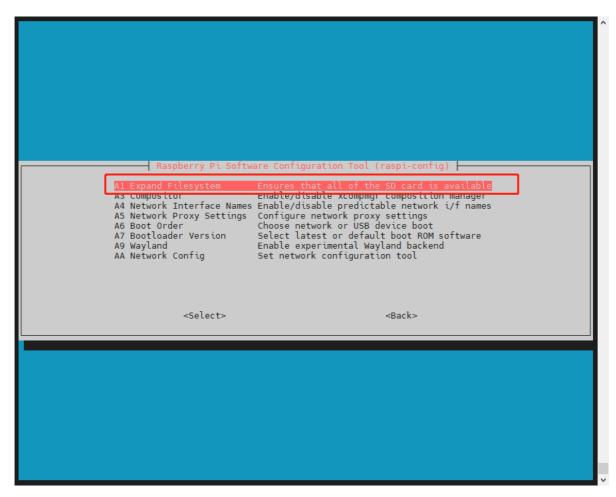
4. Select option 6 and press Enter

```
Raspberry Pi Software Configuration Tool (raspi-config)

1 System Options Configure system settings
2 Display Options Configure display settings
3 Interface Options Configure connections to peripherals
4 Performance Options Configure performance settings
5 Localisation Options Configure advanced settings
6 Advanced Options Configure language and regional settings
7 Advanced Options Configure advanced settings
8 Opdate Update this tool to the latest version
9 About raspi-config Information about this configuration tool

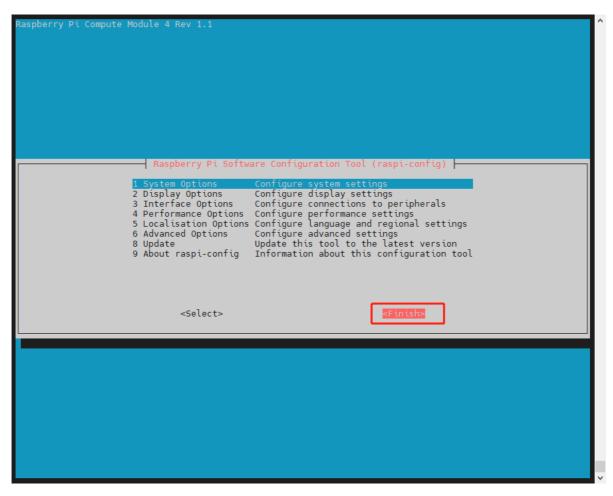
<Select> <Finish>

V
```

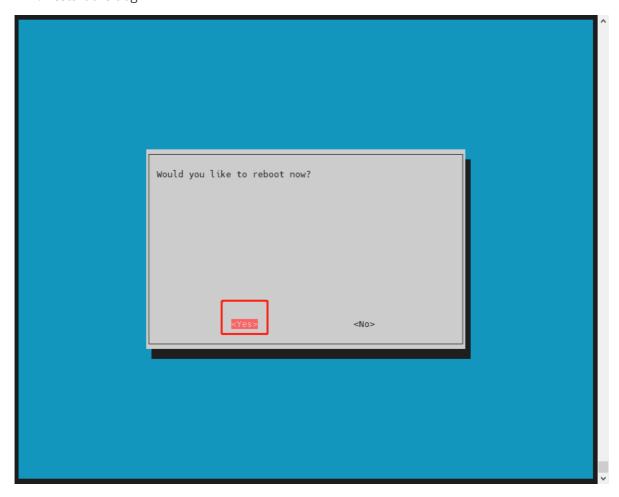


6. Press Enter on this interface, then select Finish. Then restart the dog.





## 7. Restart the dog



8. Query the space again.

## Found that the expansion is complete

```
pi@raspberrypi:-$ df -h
Filesvstem Size Used Avail Use% Mounted on
//dev/root 296 136 166 44% /
GevtmpTs 642M 0 642M 0/9 / dev
tmpfs 900M 0 900M 0% / dev/shm
tmpfs 360M 1.2M 359M 1% / run
tmpfs 5.0M 4.0K 5.0M 1% / run/lock
//dev/mmcblkop1 253M 31M 222M 13% / boot
tmpfs 180M 24K 180M 1% / run/user/1000
pi@raspberrypi:-$
```