Raspberry Pi System Expansion

This document briefly describes how to expand the system.

Because the factory image only has 15G system, 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 methods, which are not described in this document.
- 2. Then enter the command to check the space

```
df -h
```

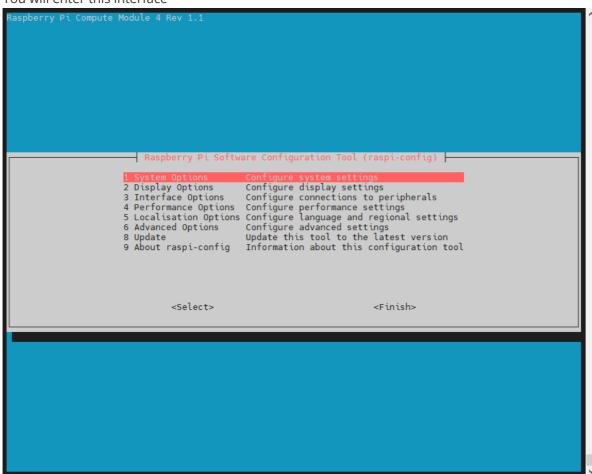
You can see the system space

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

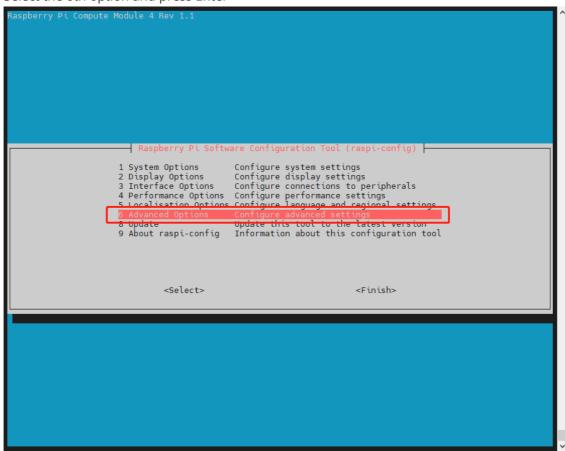
3. Enter the following command to expand

```
sudo raspi-config
```

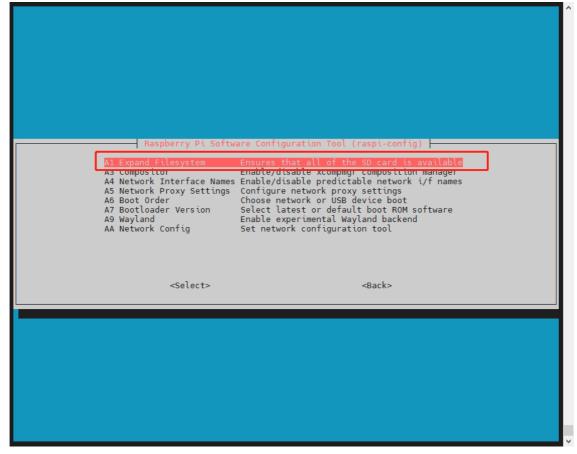
You will enter this interface



4. Select the 6th option and press Enter



5. Select the first option and select OK



6. Press Enter again on this interface, then select Finish. Then restart the car. Root partition has been resized. The filesystem will be enlarged upon the next reboot aspberry Pi Compute Module 4 Rev 1.1 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 language and regional settings
6 Advanced Options Configure advanced settings
8 Update Update this tool to the latest version
9 About raspi-config Information about this configuration tool <Select>

7. Restart the car



8. Query the space again.

```
df -h
```

Found that the expansion is complete

```
pieraspberrypi:--$ df -h
Filesvatem Size Used Avail Use% Mounted on
/dev/root 296 136 166 44% /
devtmprs 642M 0 642M 0% /dev
tmpfs 360M 1.2M 359M 1% /run
tmpfs 360M 1.2M 359M 1% /run
tmpfs 5.0M 4.0% 5.0M 1% /run/lock
/dev/mmcblk0p1 253M 31M 222M 13% /boot
tmpfs 180M 24K 180M 1% /run/user/1000
pi@raspberrypi:--$

### 180M 1% /run/user/1000
```