

1. Background

After using a U disk larger than the system image file memory to write the system image file, part of the free memory cannot be used, resulting in an error of insufficient space, or failure to run a large project.

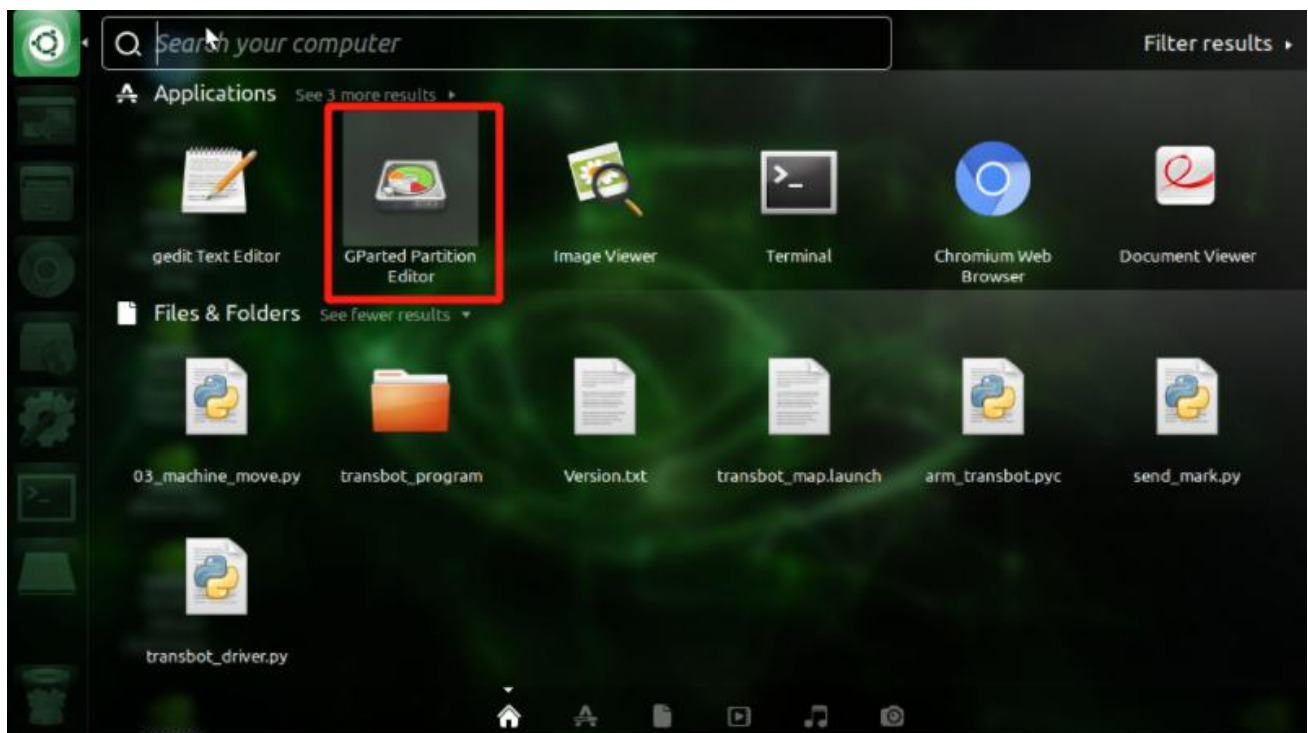
2. Solutions

2.1 Open the terminal of the virtual machine (Ubuntu 18.04) and enter the following command to install the expansion software.

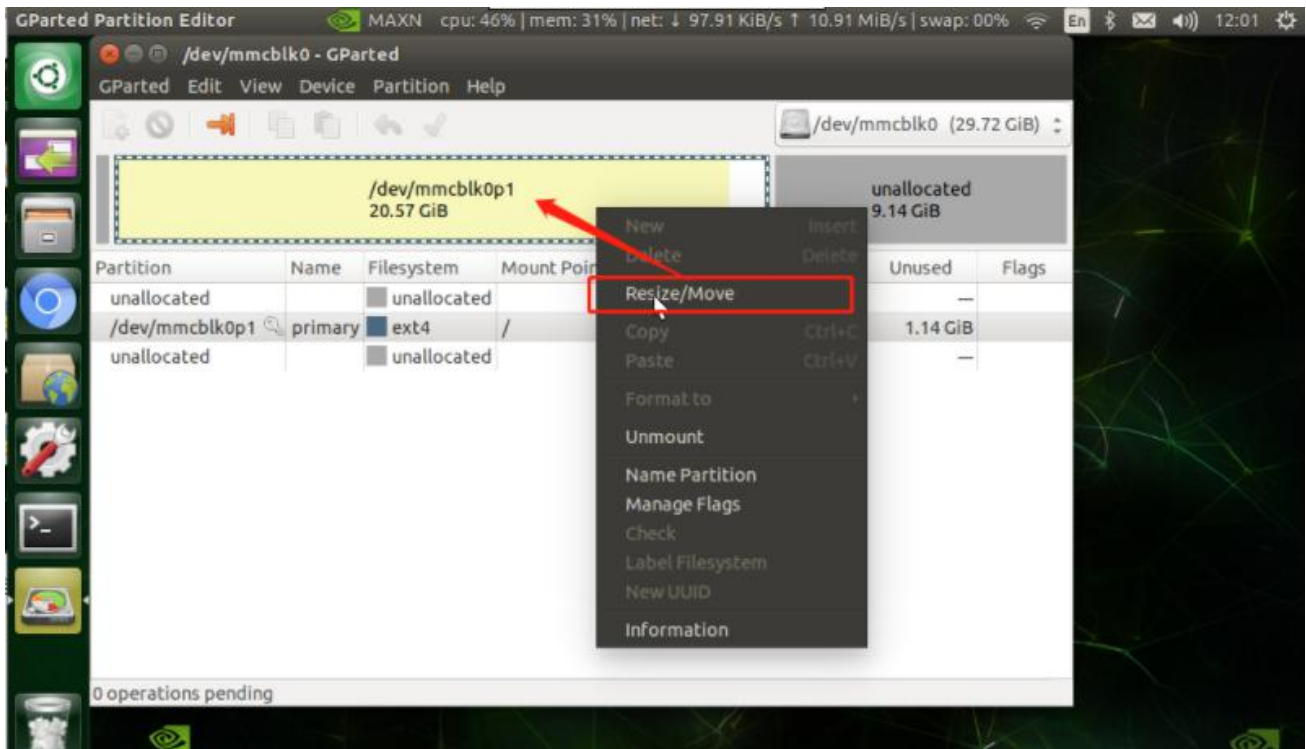
sudo apt install gparted

```
yahboom@YAB:~$ sudo apt install gparted
Reading package lists... Done
Building dependency tree
Reading state information... Done
```

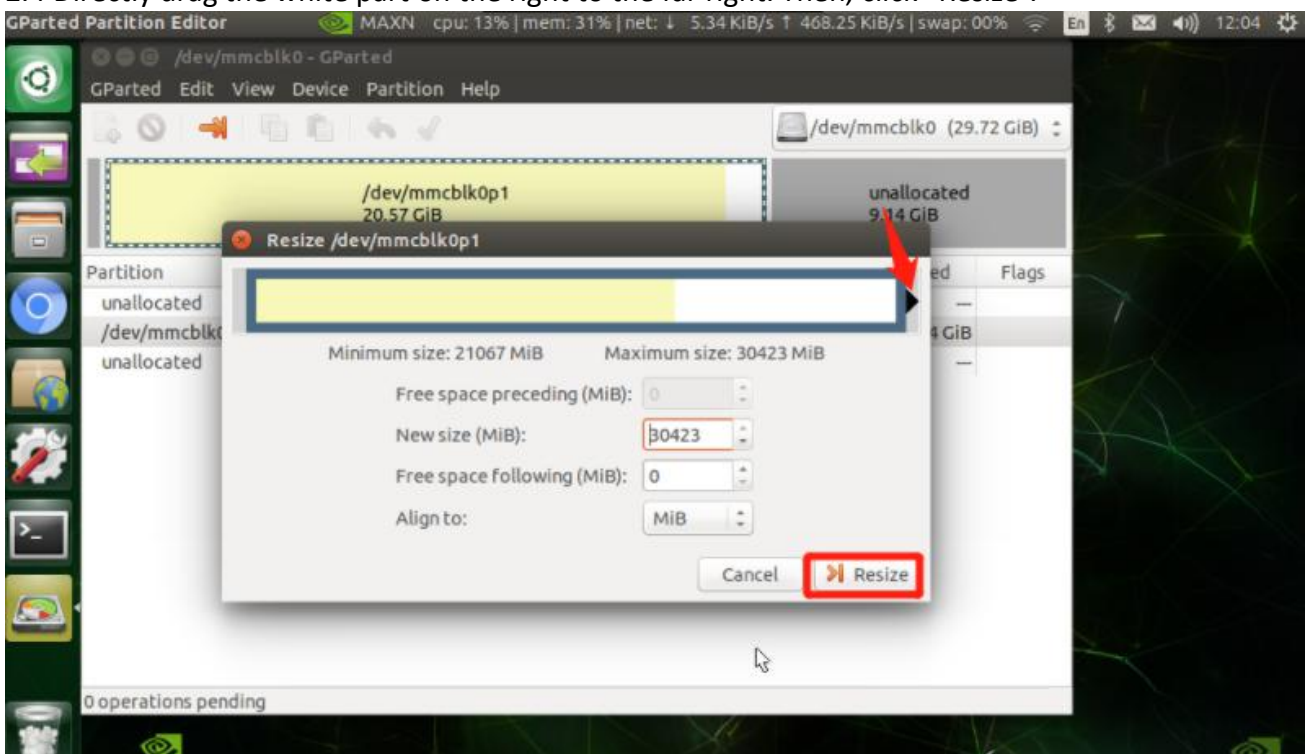
2.2 Search and open gparted within the virtual machine's system APP.



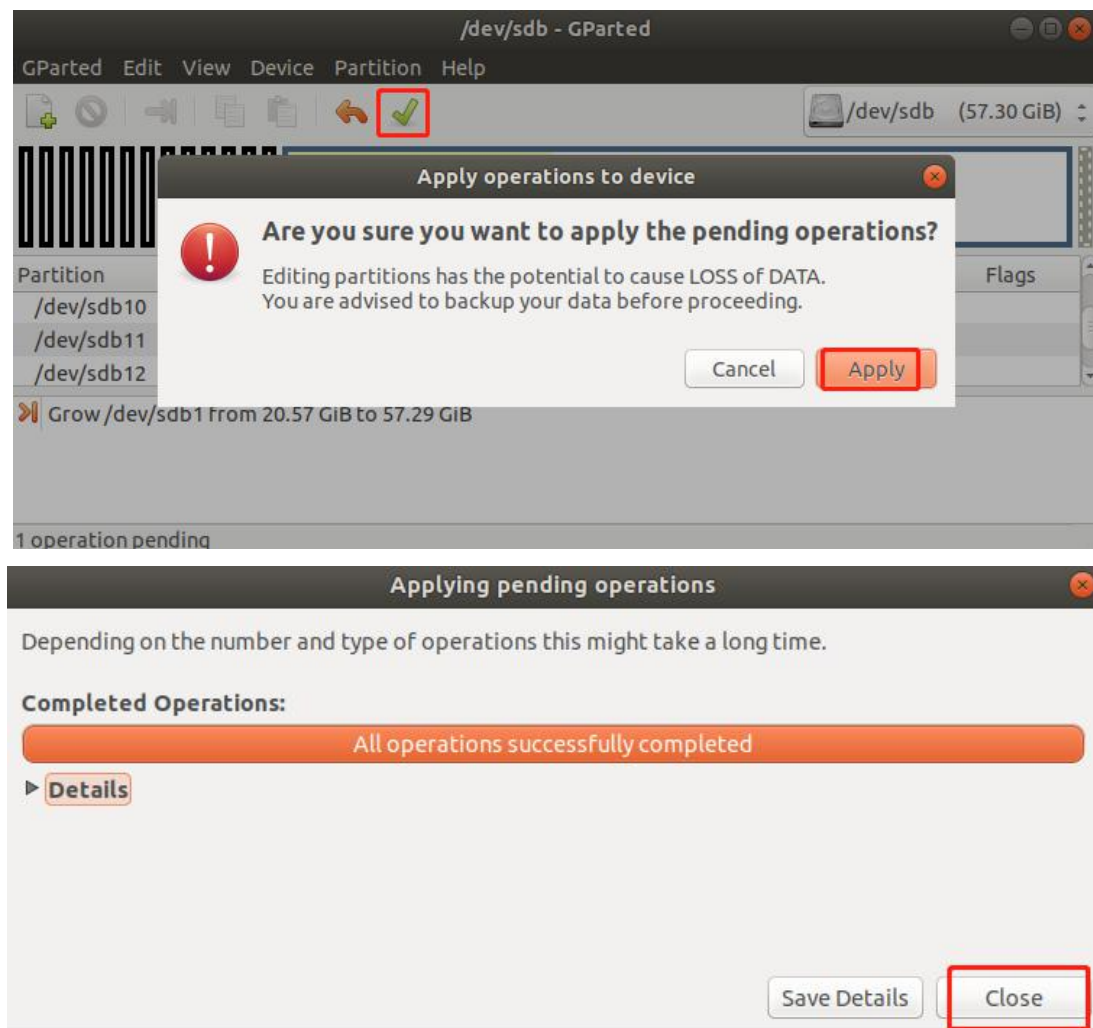
2.3 Right-click and select “/dev/mmcblk0p1”-->“Resize/Move”.



2.4 Directly drag the white part on the right to the far right. Then, click “Resize”.



2.5 Click “v” to confirm, then click “Apply”.

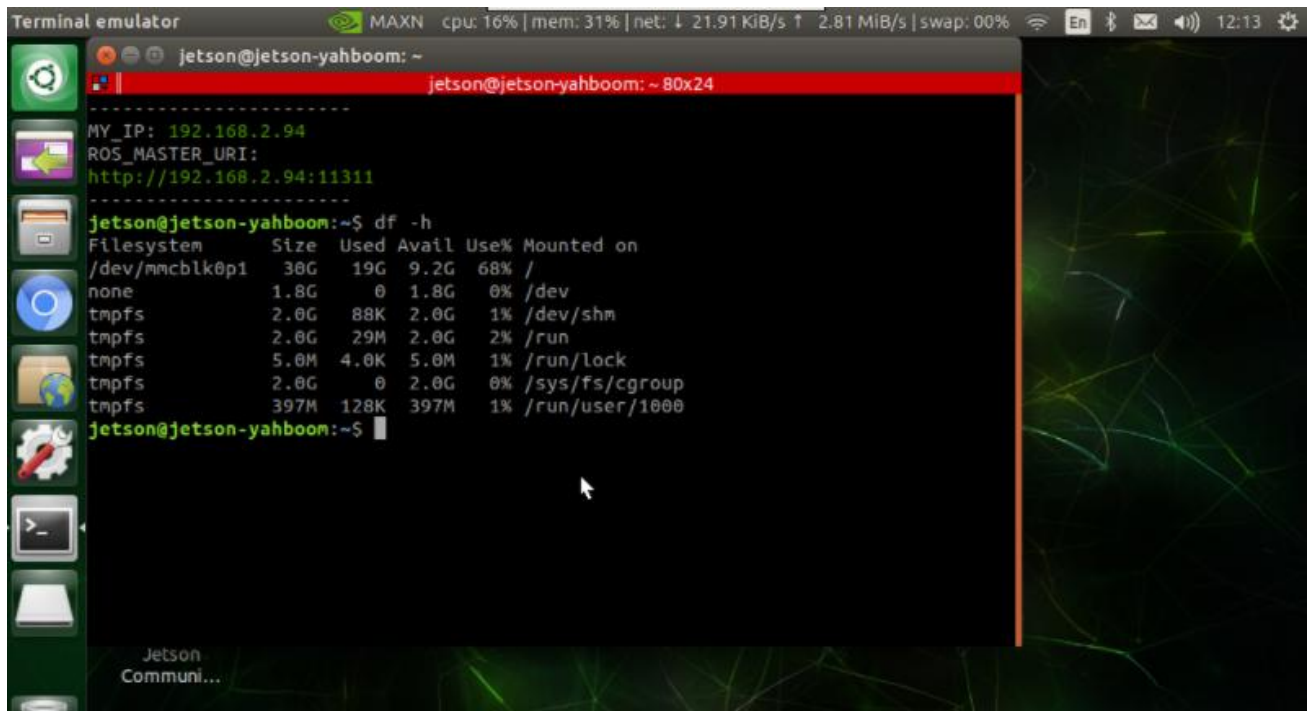


2.6 The expansion of the U disk is completed.

2.7 Use the command to perform query verification in the terminal

df -h

Verify that the expansion is successful, and the expansion information of the 32G card is as follows



Terminal emulator window showing system information and disk usage. The window title is "Terminal emulator" and the status bar shows "MAXN cpu: 16% | mem: 31% | net: ↓ 21.91 KiB/s ↑ 2.81 MiB/s | swap: 00%". The terminal output is as follows:

```
jetson@jetson-yahboom: ~  
-----  
jetson@jetson-yahboom: ~ 80x24  
-----  
MY_IP: 192.168.2.94  
ROS_MASTER_URI:  
http://192.168.2.94:11311  
-----  
jetson@jetson-yahboom:~$ df -h  
Filesystem      Size  Used Avail Use% Mounted on  
/dev/mmcblk0p1  30G   19G   9.2G   68% /  
none            1.8G    0   1.8G    0% /dev  
tmpfs           2.0G   88K   2.0G    1% /dev/shm  
tmpfs           2.0G   29M   2.0G    2% /run  
tmpfs           5.0M   4.0K   5.0M    1% /run/lock  
tmpfs           2.0G    0   2.0G    0% /sys/fs/cgroup  
tmpfs           397M  128K   397M    1% /run/user/1000  
jetson@jetson-yahboom:~$
```

The terminal window has a sidebar with icons for settings, home, file manager, applications, and a search bar. The background of the terminal window is a dark green pattern.