7. Expansion tutorial

7.1. Problems

After using a TF larger than the image memory to burn the image, a part of the free memory cannot be used, resulting in an error of insufficient space, or failure to run a large project.
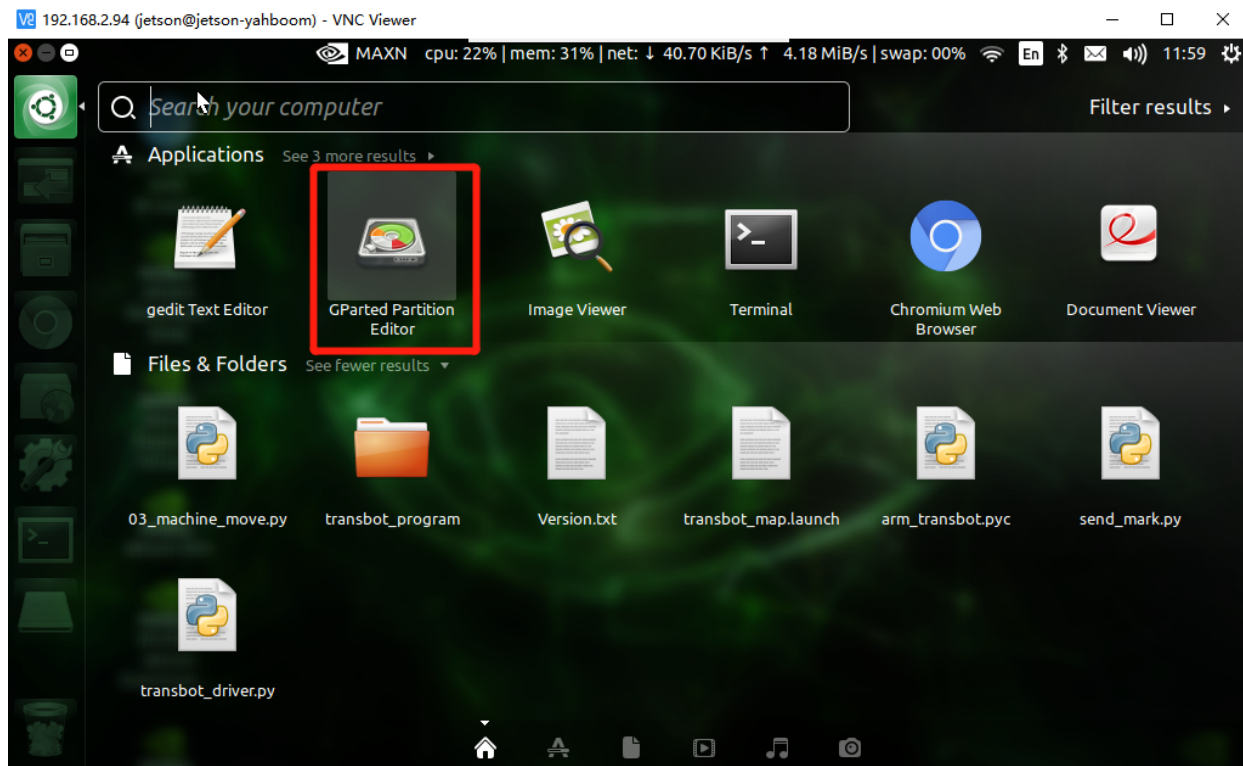
Note: This tutorial is only for users who burn the image by themselves. If there is a factory image in the sd, you can skip this tutorial. The expansion method of U disk and SD card is the same. This section takes SD card as an example.
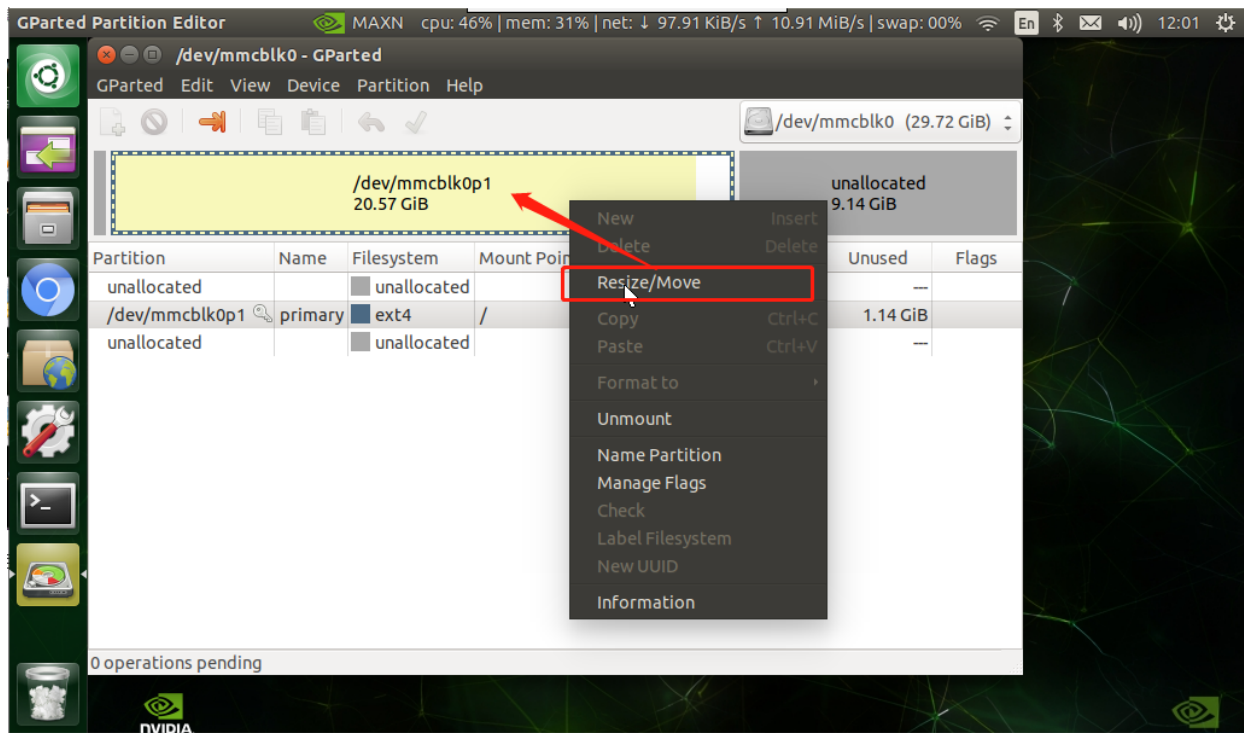
7.2. Solutions

Install the expansion software and use the expansion software to expand the capacity.
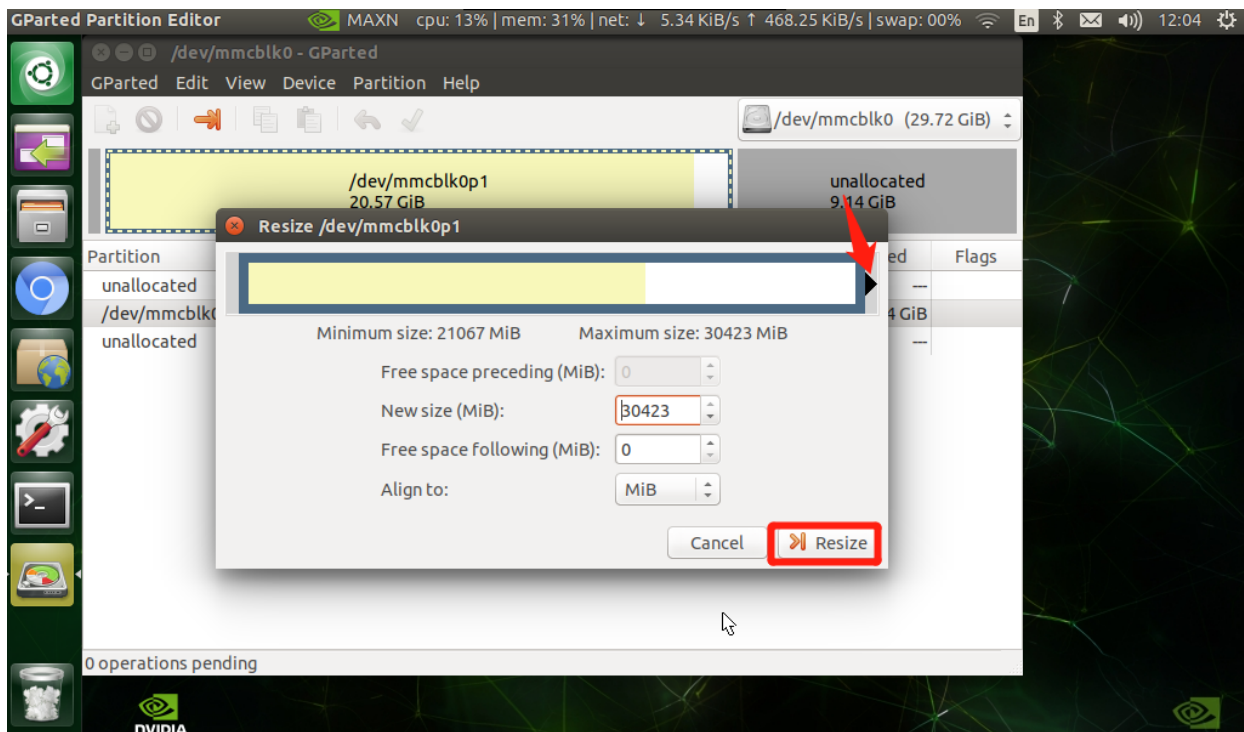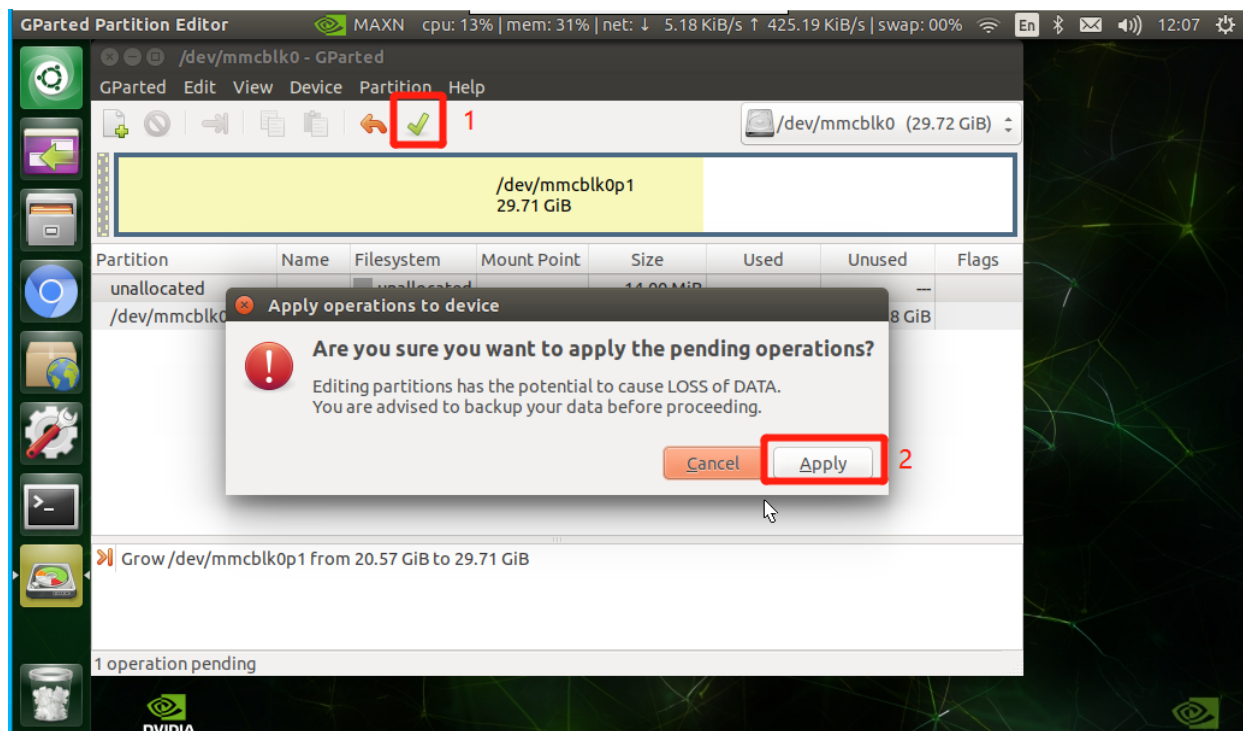
```
sudo apt install gparted
```

Open the software
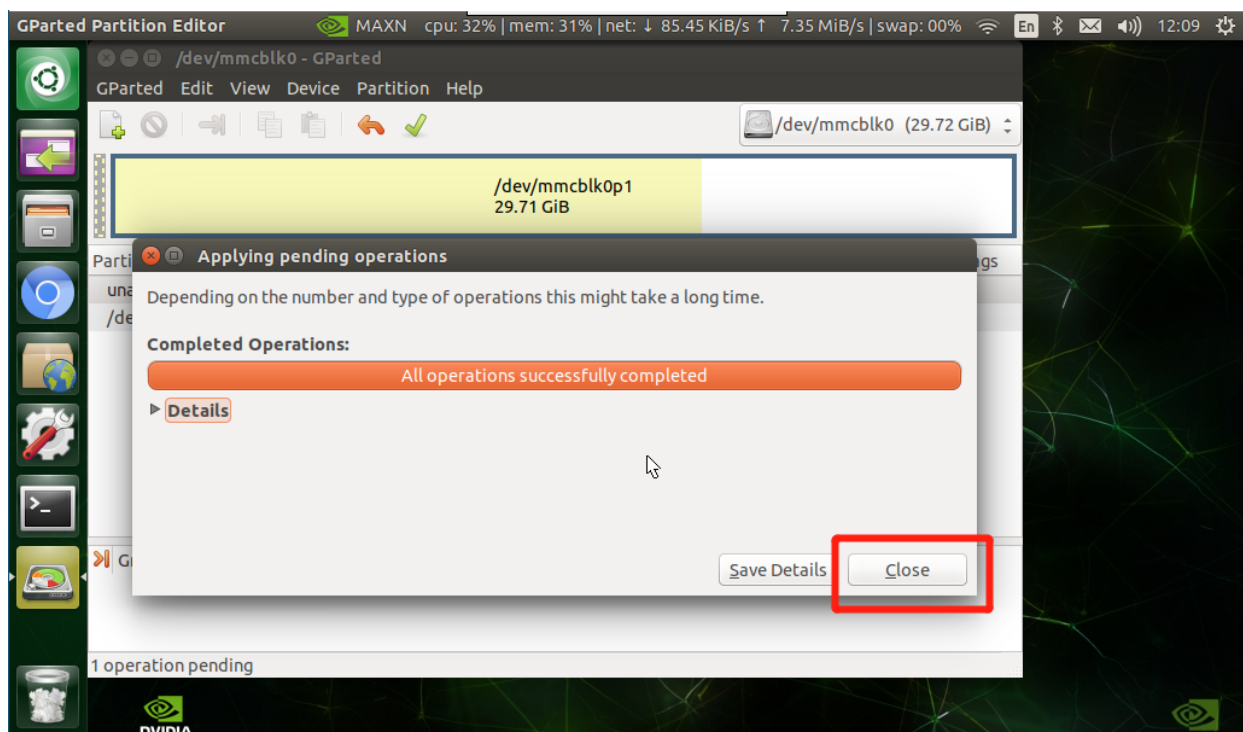

Right click【/dev/mmcblk0p1】->Resize/Move

Pull the box on the right to the top until the gray area becomes completely white->Resize

Click √ -> Apply at the bottom of the function bar

Expansion complete!

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

jetson@jetson-yahboom: ~

```
------------------------
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:~$
```

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