13.Capacity expansion and resource allocation

1. Question

After using TF to burn an image that is larger than the image memory, a part of the free memory will not be used, resulting in an error message indicating insufficient space, or failure to run large projects.
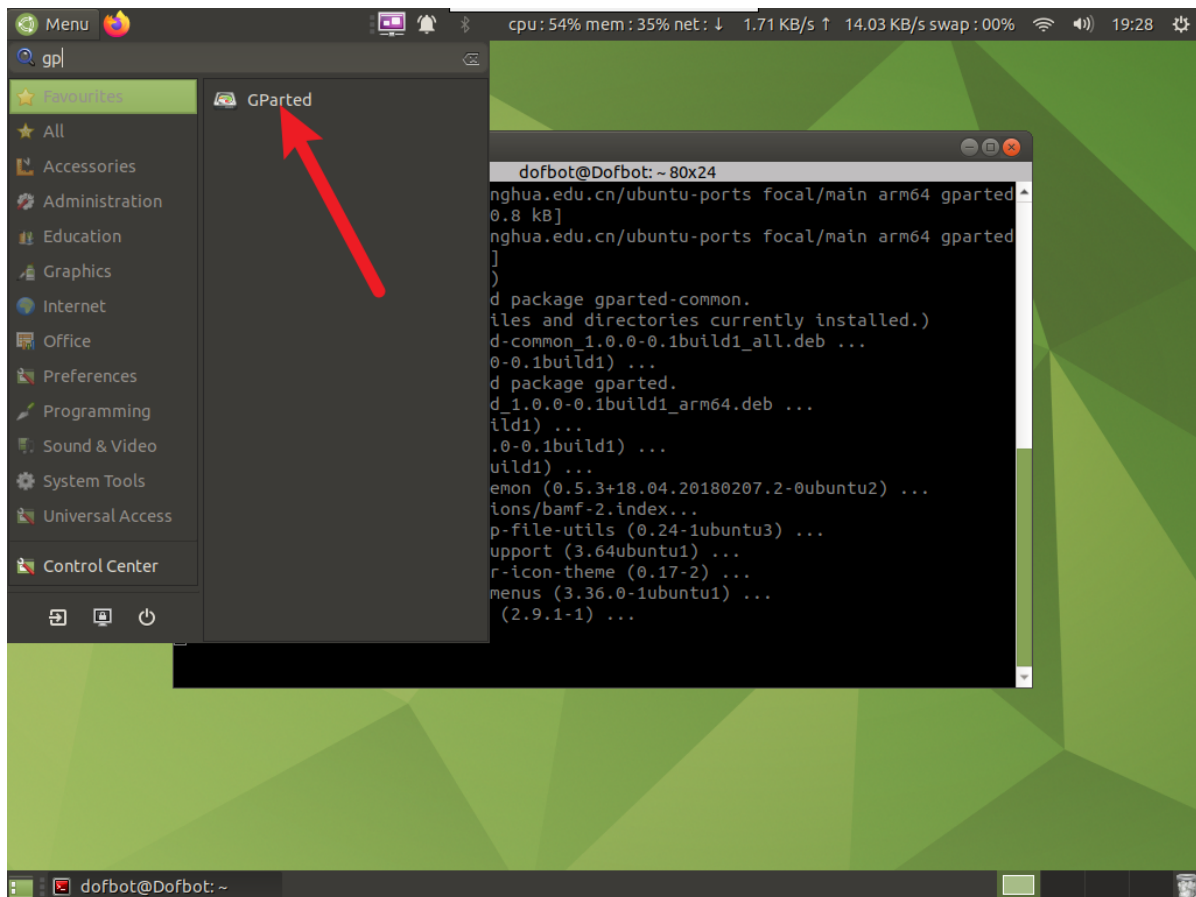
Note: If you are using the USB flash drive, SD card and system image file provided by Yahboom, you can skip this course. The expansion methods of U disk and SD card are the same. This section takes SD card as an example.
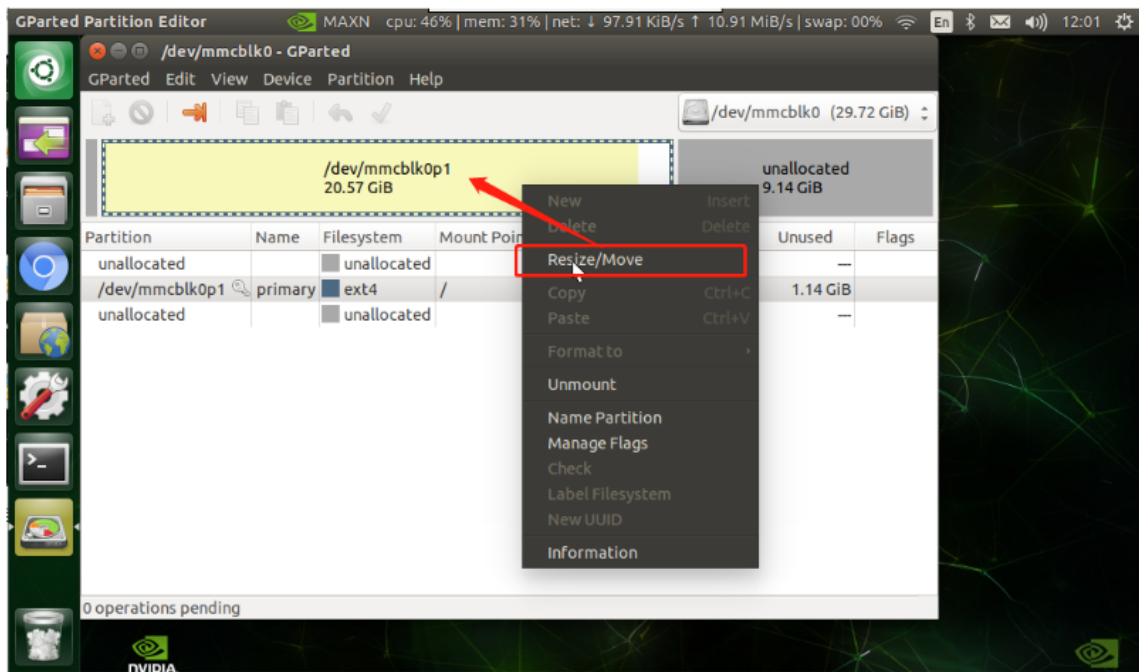
2. solution

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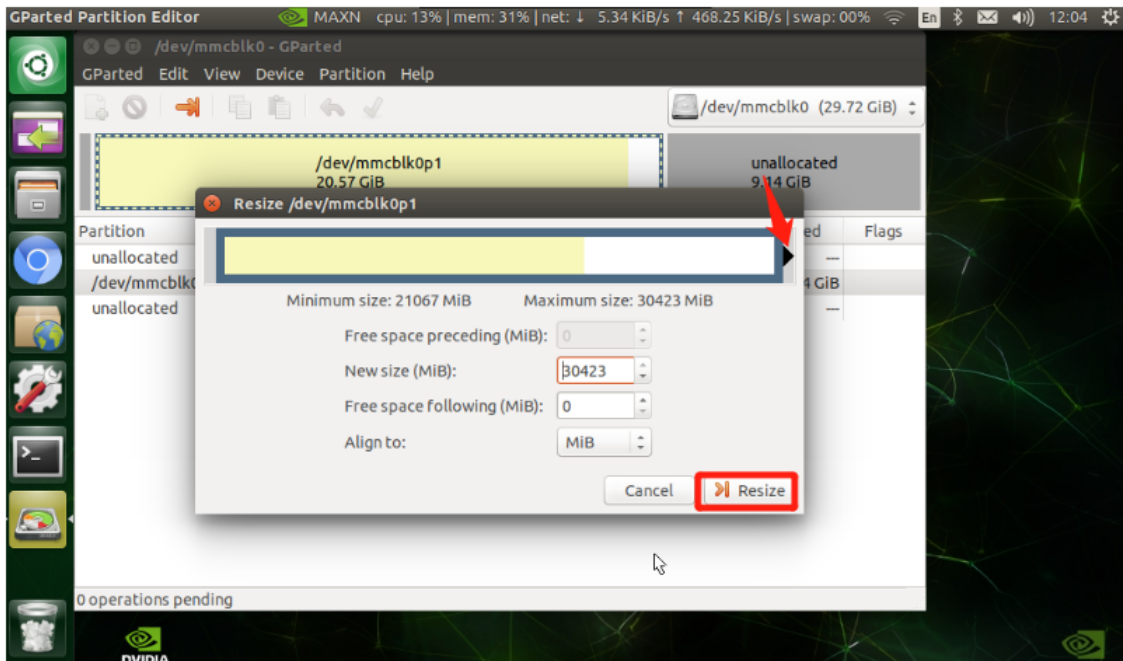
```
sudo apt install gparted
```
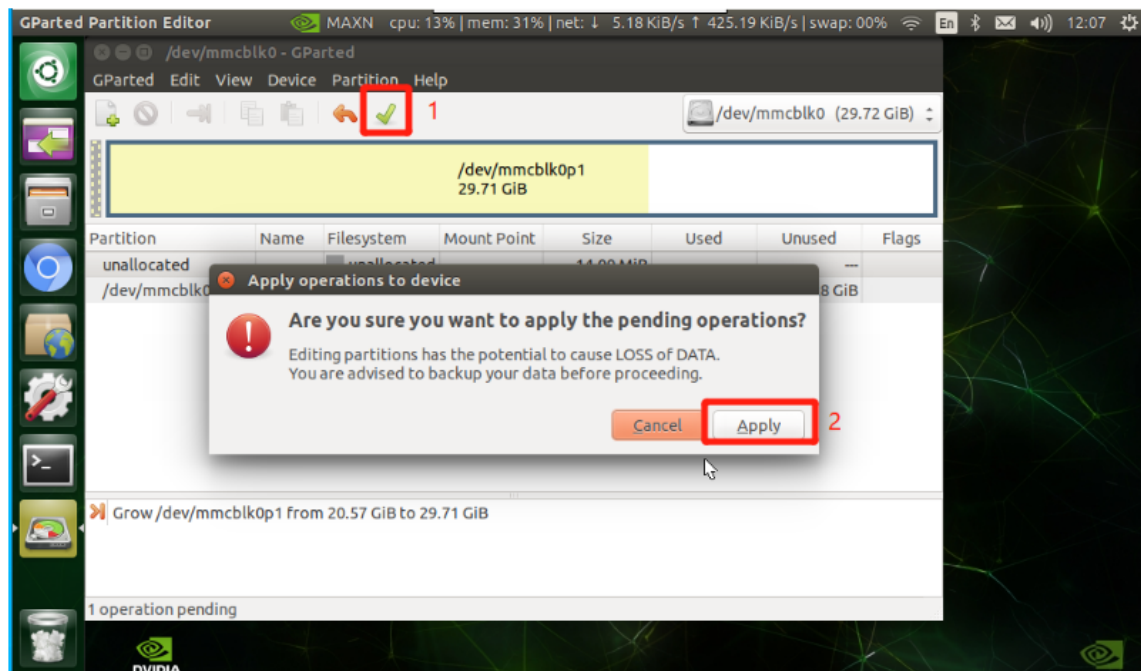
Open software

Click right key on mouse-->【/dev/mmcblk0p1】-->Resize/Move.
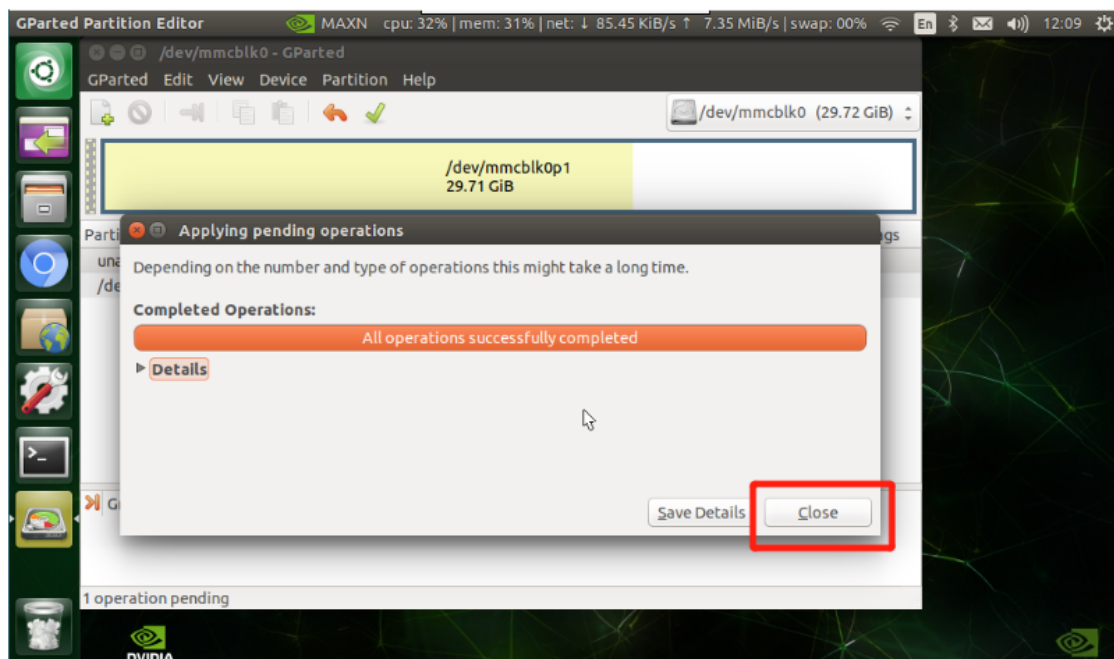
Pull the right frame to the top until the gray area becomes completely white->Resize

Click √ under the function bar -> Apply

Expansion completed!

Input the following command in the terminal to query and verify

```
df -h
```

Verify that the expansion is successful.

The 32G card expansion information is as follows.

```
Unpacking gparted-common (1.0.0-0.1build1) ...
Selecting previously unselected package gparted.
Preparing to unpack .../gparted_1.0.0-0.1build1_arm64.deb ...
Unpacking gparted (1.0.0-0.1build1) ...
Setting up gparted-common (1.0.0-0.1build1) ...
Setting up gparted (1.0.0-0.1build1) ...
Processing triggers for bamfdaemon (0.5.3+18.04.20180207.2-0ubuntu2) ...
Rebuilding /usr/share/applications/bamf-2.index...
Processing triggers for desktop-file-utils (0.24-1ubuntu3) ...
Processing triggers for mime-support (3.64ubuntu1) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu1) ...
Processing triggers for man-db (2.9.1-1) ...
dofbot@Dofbot:~$ df -h
Filesystem      Size  Used Avail Use% Mounted on
udev            1.8G     0  1.8G   0% /dev
tmpfs           380M  4.4M  376M   2% /run
/dev/mmcblk0p2   29G   13G   17G  45% /
tmpfs           1.9G     0  1.9G   0% /dev/shm
tmpfs           5.0M  4.0K  5.0M   1% /run/lock
tmpfs           1.9G     0  1.9G   0% /sys/fs/cgroup
/dev/mmcblk0p1  255M  118M  138M  47% /boot/firmware
tmpfs           380M   44K  380M   1% /run/user/1000
dofbot@Dofbot:~$
```