

## 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.

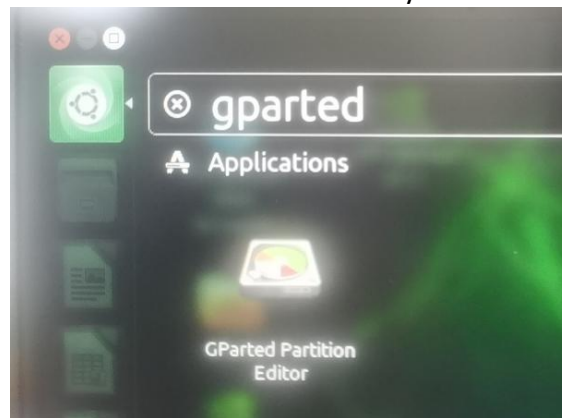
## 2. Solutions

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**

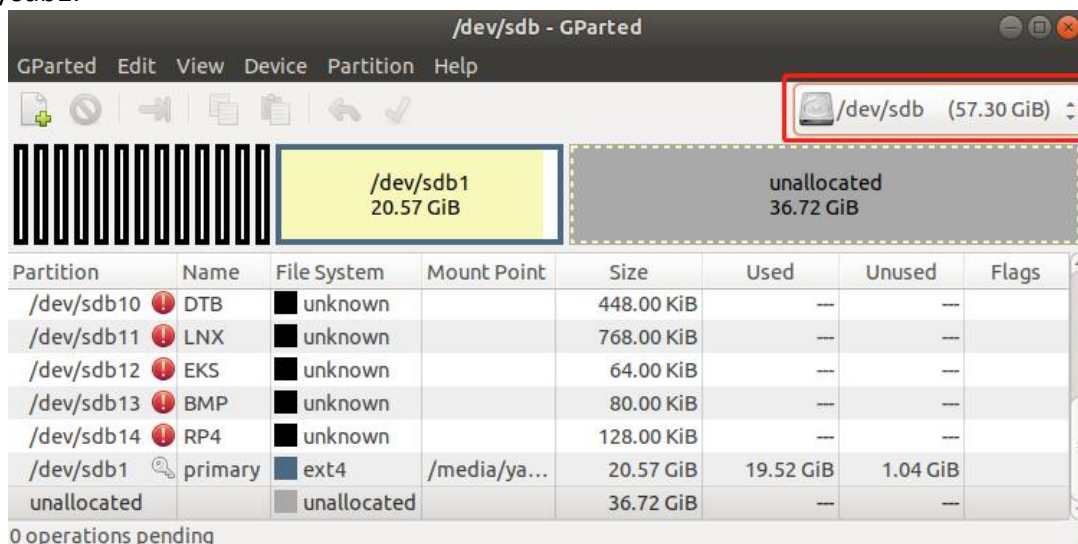
```
yahboom@YAB:~$ sudo apt install gparted
Reading package lists... Done
Building dependency tree
Reading state information... Done
```

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

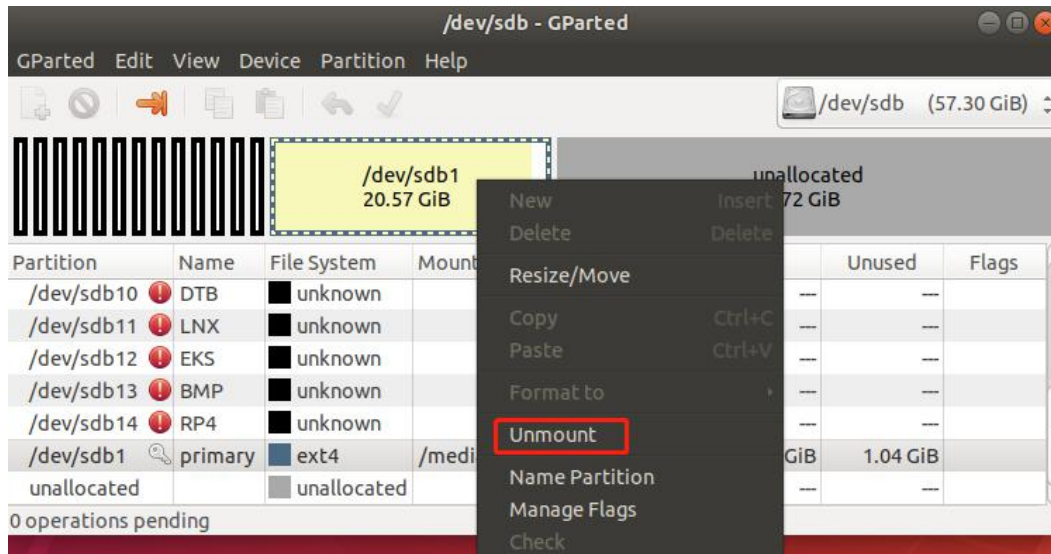


2.3 Correctly select the drive letter of the U disk.

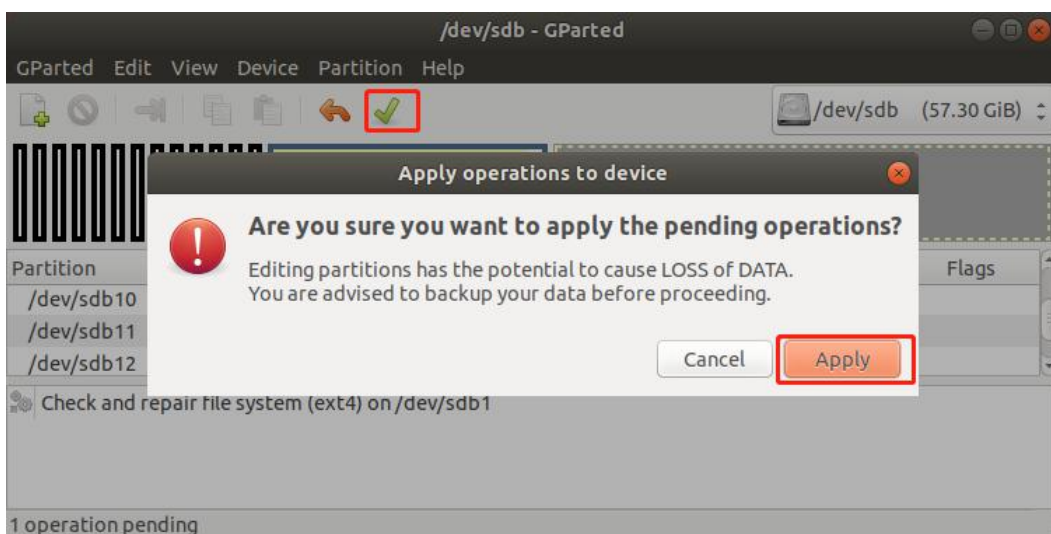
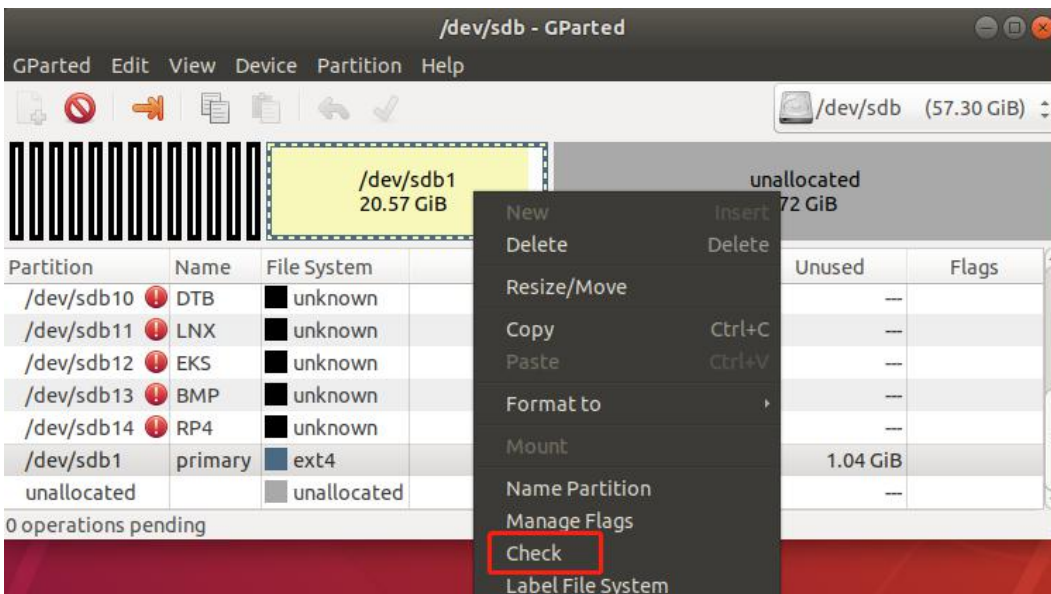
For example, if I choose /dev/sdb here, you can see that there are some white and some gray behind /sdb1.

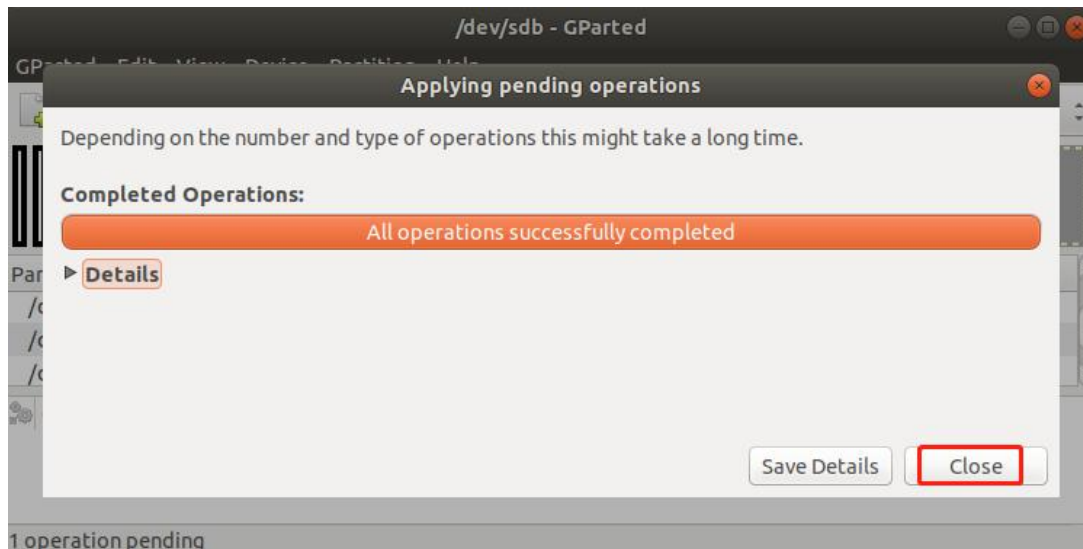


2.4 Right-click and select Unmount to unmount /dev/sdb1.

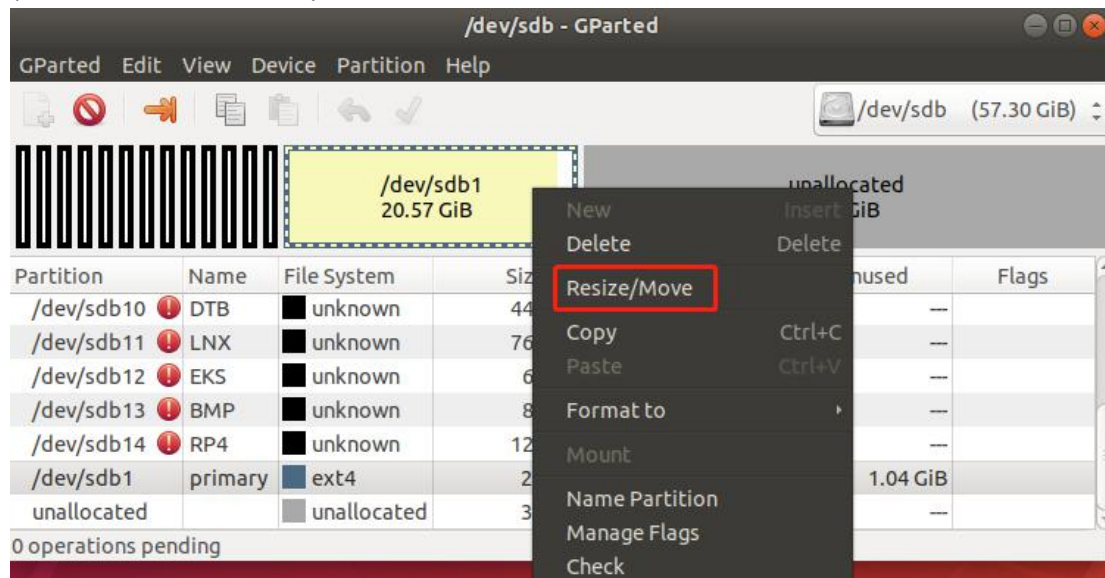


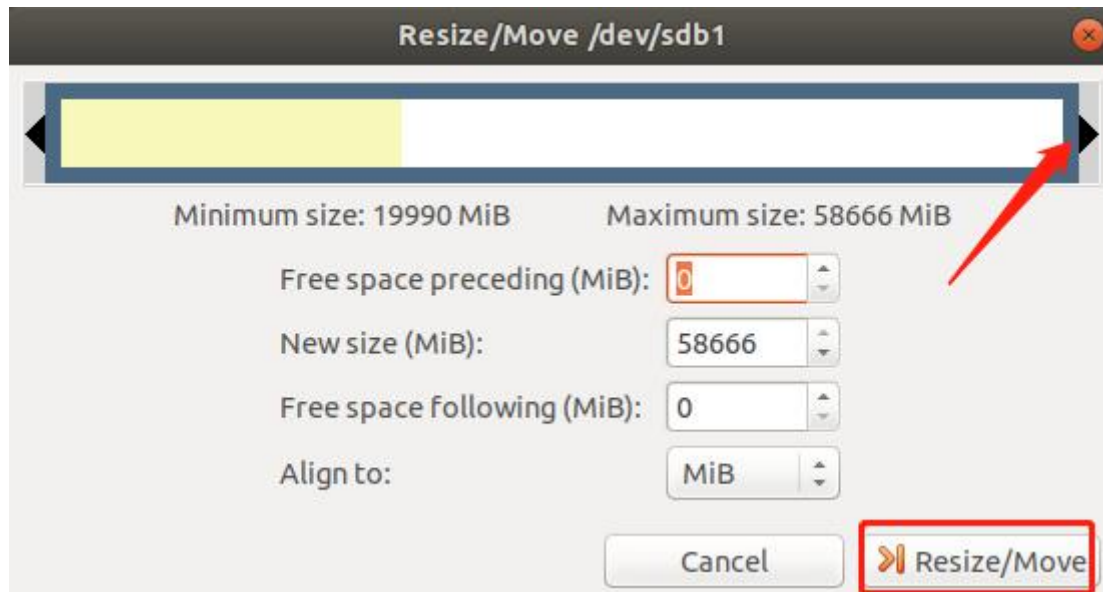
2.5 Right-click and select "Check" to check the U disk, click the tick "✓" above to confirm, and then click "Apply".



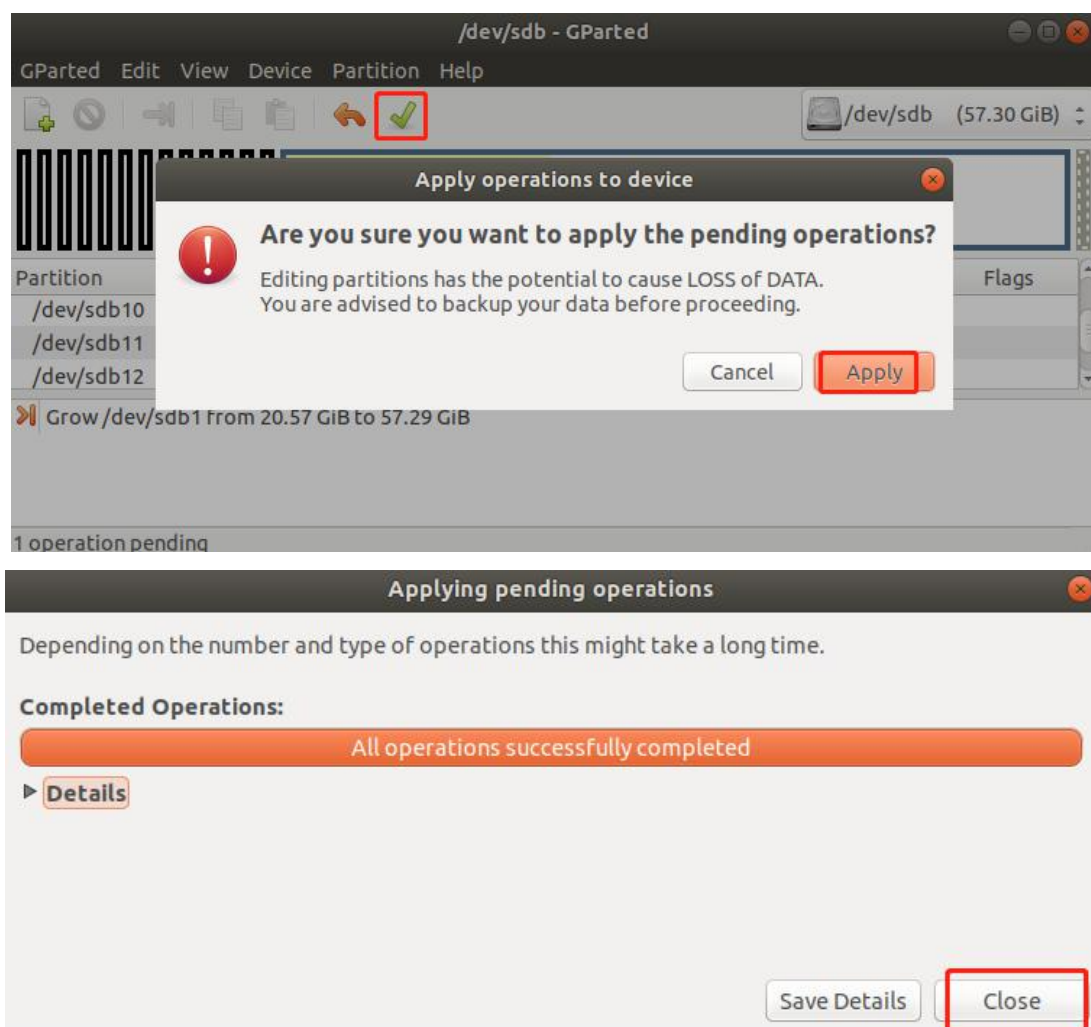


2.6 Select “Resize/Move” to modify the capacity size, directly drag the white part on the right to the far right, and then click “Resize/Move”.





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



2.8 The expansion of the U disk is completed.

**/dev/sdb - GParted**

GParted Edit View Device Partition Help

/dev/sdb (57.30 GiB)

/dev/sdb1  
57.29 GiB

Partition	Name	File System	Size	Used	Unused	Flags
/dev/sdb9	TOS	unknown	448.00 KiB	---	---	
/dev/sdb10	DTB	unknown	448.00 KiB	---	---	
/dev/sdb11	LNx	unknown	768.00 KiB	---	---	
/dev/sdb12	EKS	unknown	64.00 KiB	---	---	
/dev/sdb13	BMP	unknown	80.00 KiB	---	---	
/dev/sdb14	RP4	unknown	128.00 KiB	---	---	
/dev/sdb1	primary	ext4	57.29 GiB	20.10 GiB	37.19 GiB	
unallocated		unallocated	1.00 MiB	---	---	

0 operations pending