

# Jetson Nano Swap swap space increases

Entering the following commands in sequence can increase the swap space by 3G and solve some program errors that run out of memory.

```
sudo fallocate -l 3G /var/swapfile
sudo chmod 600 /var/swapfile
sudo mkswap /var/swapfile
sudo swapon /var/swapfile
sudo bash -c 'echo "/var/swapfile swap swap defaults 0 0" >> /etc/fstab'
```

- Add swapfile file size customization

```
sudo fallocate -l 3G /var/swapfile
```

- Configure permissions for this file

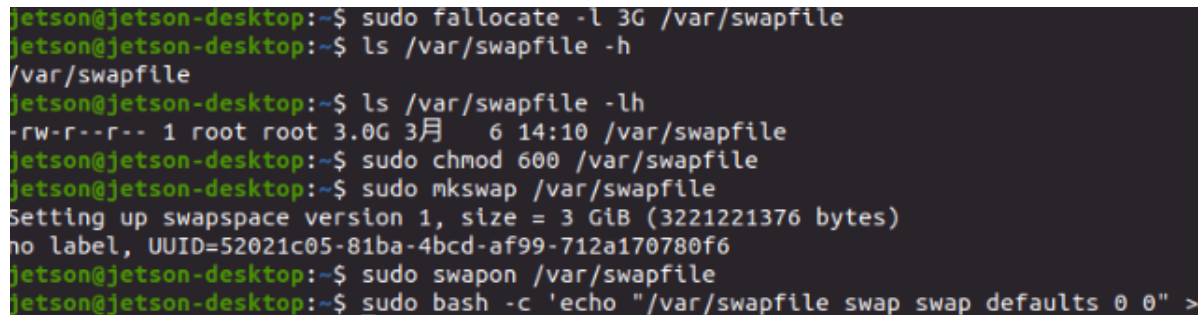
```
sudo chmod 600 /var/swapfile
```

- Establish Exchange Partition

```
sudo mkswap /var/swapfile
```

- Enable swap partitioning

```
sudo swapon /var/swapfile
```



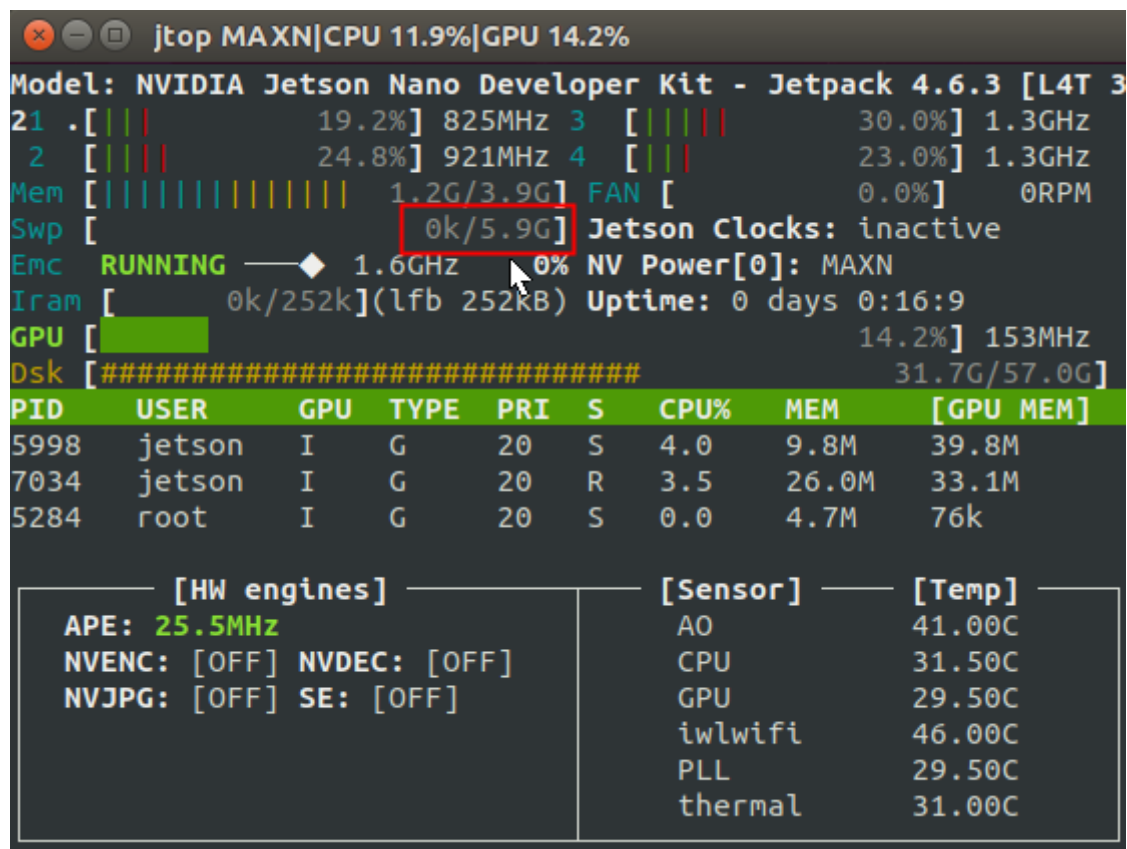
```
jetson@jetson-desktop:~$ sudo fallocate -l 3G /var/swapfile
jetson@jetson-desktop:~$ ls /var/swapfile -lh
-rw-r--r-- 1 root root 3.0G 3月  6 14:10 /var/swapfile
jetson@jetson-desktop:~$ ls /var/swapfile -lh
-rw-r--r-- 1 root root 3.0G 3月  6 14:10 /var/swapfile
jetson@jetson-desktop:~$ sudo chmod 600 /var/swapfile
jetson@jetson-desktop:~$ sudo mkswap /var/swapfile
Setting up swspace version 1, size = 3 GiB (3221221376 bytes)
no label, UUID=52021c05-81ba-4bcd-af99-712a170780f6
jetson@jetson-desktop:~$ sudo swapon /var/swapfile
jetson@jetson-desktop:~$ sudo bash -c 'echo "/var/swapfile swap swap defaults 0 0" >> /etc/fstab'
```

- Set to automatically enable swapfile

```
sudo bash -c 'echo "/var/swapfile swap swap defaults 0 0" >> /etc/fstab'
```

View the effect and open the terminal input

```
jtop
```



Swap has become 6g.