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 -1 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 -h
/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 swapspace 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" >
```

• 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

```
jtop MAXN|CPU 11.9%|GPU 14.2%
Model: NVIDIA Jetson Nano Developer Kit - Jetpack 4.6.3 [L4T 3
              19.2%] 825MHz 3 [||||| 30.0%] 1.3GHz
24.8%] 921MHz 4 [||| 23.0%] 1.3GHz
21 .[||
              19.2% | 623m | 23.0% | 24.8% | 921MHz 4 [|| 23.0% | 0.0% |
2 [|||
Mem [|||||||||||||| 1.2G/3.9G] FAN [
                                                0RPM
                   0k/5.9G] Jetson Clocks: inactive
Emc RUNNING — ♦ 1.6GHz \ 0% NV Power[0]: MAXN
14.2%] 153MHz
31.7G/57.0G]
PID
     USER
             GPU TYPE PRI S
                               CPU%
                                     MEM
                                            [GPU MEM]
5998
     jetson
             I
                  G
                       20
                               4.0
                                     9.8M
                                            39.8M
7034
            I
                 G
                       20
                           R
                              3.5
                                     26.0M
                                            33.1M
     jetson
                                            76k
5284
                 G
                       20
                                     4.7M
    root
                               0.0
     — [HW engines] ——
                              - [Sensor] —— [Temp] ·
  APE: 25.5MHz
                                            41.00C
                                A0
                                CPU
                                            31.50C
  NVENC: [OFF] NVDEC: [OFF]
                                GPU
  NVJPG: [OFF] SE: [OFF]
                                            29.50C
                                iwlwifi
                                            46.00C
                                            29.50C
                                PLL
                                thermal
                                            31.00C
```

Swap has become 6g.