Open the terminal of the jetson NX system

1. View the mount information of the SSD

df -h

```
[...]-desktop:~$ df -h
Filesystem       Size  Used Avail Use% Mounted on
/dev/mmcblk0p1    28G   13G   14G  48% /
none             7.4G     0  7.4G   0% /dev
tmpfs            7.8G  4.0K  7.8G   1% /dev/shm
tmpfs            7.8G   39M  7.7G   1% /run
tmpfs            5.0M  4.0K  5.0M   1% /run/lock
tmpfs            7.8G     0  7.8G   0% /sys/fs/cgroup
/dev/nvme0n1p1   458G  2.0G  433G   1% /home
tmpfs            1.6G  128K  1.6G   1% /run/user/1000
```

/dev/nvme0n1p1 is the hard disk that needs to be tested

2. Install hdparm

sudo apt-get install hdparm

```
jetson@jetson-nx:~$ sudo apt-get install hdparm
[sudo] password for jetson:
Reading package lists... Done
Building dependency tree
Reading state information... Done
```

3. Test file read speed

sudo hdparm -tT /dev/nvme0n1p1

```
jetson@jetson-nx:~$ sudo hdparm -tT /dev/nvme0n1p1

/dev/nvme0n1p1:
 Timing cached reads:    10336 MB in  1.99 seconds = 5182.38 MB/sec
 Timing buffered disk reads: 3910 MB in  3.00 seconds = 1303.20 MB/sec
jetson@jetson-nx:~$
```

4. Test the speed of writing files. The test time is related to the last count. 5000 represents about 5G data, which can be increased or decreased appropriately.

sudo dd if=/dev/zero of=/home/jetson/test_write.img bs=1M count=5000

```
jetson@jetson-nx:~$ sudo dd if=/dev/zero of=/home/jetson/test_write.img bs=1M co
unt=5000
5000+0 records in
5000+0 records out
5242880000 bytes (5.2 GB, 4.9 GiB) copied, 9.24334 s, 567 MB/s
jetson@jetson-nx:~$
```

5. Delete Files

The above test write speed will produce a 5G-sized test_write.img file in the jetson user directory,

which needs to be deleted manually by running the following command.
rm -rf /home/jetson/test_write.img

```
jetson@jetson-nx:~$ ls
Desktop     examples.desktop   Public        test_write.img
Documents   Music              rootOnNVMe    Videos
Downloads   Pictures           Templates     VisionWorks-SFM-0.90-Samples
jetson@jetson-nx:~$ rm -rf /home/jetson/test_write.img
jetson@jetson-nx:~$ ls
Desktop     examples.desktop   Public        Videos
Documents   Music              rootOnNVMe    VisionWorks-SFM-0.90-Samples
Downloads   Pictures           Templates
jetson@jetson-nx:~$ 
```

Note: Due to the storage characteristics of solid-state drives, the use of more storage space will affect the read and write speed, so try to test when there is a lot of remaining hard disk space. The reading and writing speed of each test will be different. As long as the test data is not too different from the picture, it is normal. You can test the stability of the reading and writing speed several times.