

## 1. Linux

head:

```
scteam04@head ~ 20:59 (0.172s)
neofetch

      .-/+00ssss00+/- .
      `:+ssssssssssssssss+:`
      -+ssssssssssssssssyyssst+-
      .ossssssssssssssssdMMMMyssso.
      /ssssssssshdmmNNmmyNNMMMHssssss/
      +ssssssshmydMMMMMMNdddyssssssst+
      /ssssssshNMMMyhhyyyyhmNNMMNhssssss/
      .sssssssdMMMNhssssssssshNMMMdssssss.
      +sssshhhyNNMMNyssssssssssyNNMMMyssssst+
      ossyNNMMNyMMHssssssssssshmmhssssssso
      ossyNNMMNyMMHssssssssssshmmhssssssso
      +sssshhhyNNMMNyssssssssssyNNMMMyssssst+
      .sssssssdMMMNhssssssssshNMMMdssssss.
      /ssssssshNMMMyhhyyyyhdNMMNhssssss/
      +sssssssdmydMMMMMMNdddyssssssst+
      /ssssssssshdmmNNmmyNNMMMHssssss/
      .ossssssssssssssssdMMMMyssso.
      -+ssssssssssssssssyyssst+-
      `:+ssssssssssssssss+:`
      .-/+00ssss00+/- .

scteam04@head
-----
OS: Ubuntu 22.04.4 LTS x86_64
Host: KVM/QEMU (Standard PC (i440FX + PIIX, 1
Kernel: 5.15.0-107-generic
Uptime: 23 hours, 11 mins
Packages: 900 (dpkg)
Shell: bash 5.1.16
Resolution: 1280x800
Terminal: /dev/pts/13
CPU: AMD EPYC 7352 (8) @ 2.295GHz
GPU: 00:02.0 Vendor 1234 Device 1111
Memory: 2087MiB / 11949MiB
```

work:

```
scteam04@work1:~$ neofetch

      .-/+00ssss00+/- .
      `:+ssssssssssssssss+:`
      -+ssssssssssssssssyyssst+-
      .ossssssssssssssssdMMMMyssso.
      /ssssssssshdmmNNmmyNNMMMHssssss/
      +ssssssshmydMMMMMMNdddyssssssst+
      /ssssssshNMMMyhhyyyyhmNNMMNhssssss/
      .sssssssdMMMNhssssssssshNMMMdssssss.
      +sssshhhyNNMMNyssssssssssyNNMMMyssssst+
      ossyNNMMNyMMHssssssssssshmmhssssssso
      ossyNNMMNyMMHssssssssssshmmhssssssso
      +sssshhhyNNMMNyssssssssssyNNMMMyssssst+
      .sssssssdMMMNhssssssssshNMMMdssssss.
      /ssssssshNMMMyhhyyyyhdNMMNhssssss/
      +sssssssdmydMMMMMMNdddyssssssst+
      /ssssssssshdmmNNmmyNNMMMHssssss/
      .ossssssssssssssssdMMMMyssso.
      -+ssssssssssssssssyyssst+-
      `:+ssssssssssssssss+:`
      .-/+00ssss00+/- .

scteam04@work1
-----
OS: Ubuntu 22.04 LTS x86_64
Host: KVM/QEMU (Standard PC (i440FX + PIIX, 1
Kernel: 5.15.0-107-generic
Uptime: 2 days, 5 hours, 15 mins
Packages: 709 (dpkg), 4 (snap)
Shell: bash 5.1.16
Resolution: 1280x800
Terminal: /dev/pts/0
CPU: AMD EPYC 7352 (8) @ 2.295GHz
GPU: 00:02.0 Vendor 1234 Device 1111
Memory: 276MiB / 11949MiB
```

## 2. network

head:

```
scteam04@head ~ 21:02 (2.394s)
ping 1.1.1.1
PING 1.1.1.1 (1.1.1.1) 56(84) bytes of data.
64 bytes from 1.1.1.1: icmp_seq=1 ttl=56 time=2.55 ms
64 bytes from 1.1.1.1: icmp_seq=2 ttl=56 time=2.78 ms
64 bytes from 1.1.1.1: icmp_seq=3 ttl=56 time=2.94 ms
^C
--- 1.1.1.1 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2003ms
rtt min/avg/max/mdev = 2.552/2.754/2.936/0.157 ms
```

work:

```
scteam04@work1:~$ ping 1.1.1.1
PING 1.1.1.1 (1.1.1.1) 56(84) bytes of data.
64 bytes from 1.1.1.1: icmp_seq=1 ttl=55 time=2.82 ms
64 bytes from 1.1.1.1: icmp_seq=2 ttl=55 time=2.64 ms
64 bytes from 1.1.1.1: icmp_seq=3 ttl=55 time=7.58 ms
^C
--- 1.1.1.1 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2004ms
rtt min/avg/max/mdev = 2.638/4.346/7.578/2.286 ms
```

## 3. NFS

```
Last login: Fri Jan 19 15:00:28 2024 from 10.21.21.1
scteam04@work1:~$ df -h
Filesystem                Size      Used Avail Use% Mounted on
tmpfs                      1.2G    1.1M    1.2G   1% /run
/dev/mapper/ubuntu--vg-ubuntu--lv 19G   4.0G    14G  24% /
tmpfs                      5.9G    748K    5.9G   1% /dev/shm
tmpfs                      5.0M     0    5.0M   0% /run/lock
/dev/sda2                  2.0G   254M    1.6G  14% /boot
/dev/sda1                  1.1G    6.1M    1.1G   1% /boot/efi
10.21.21.1:/opt            132G    70G    57G  55% /opt
10.21.21.1:/home           132G    70G    57G  55% /home
tmpfs                      1.2G    4.0K    1.2G   1% /run/user/1000
```

#### 4. MPI

```
scteam04@head ~ 21:04 (0.104s)
mpicc mpi_test.c -o mpi_test

scteam04@head ~ 21:04 (0.785s)
mpirun -np 16 --host head:8,work1:8 mpi_test
Hello world: rank 0 of 16 running on head
Hello world: rank 1 of 16 running on head
Hello world: rank 2 of 16 running on head
Hello world: rank 3 of 16 running on head
Hello world: rank 4 of 16 running on head
Hello world: rank 5 of 16 running on head
Hello world: rank 6 of 16 running on head
Hello world: rank 7 of 16 running on head
Hello world: rank 8 of 16 running on work1
Hello world: rank 9 of 16 running on work1
Hello world: rank 10 of 16 running on work1
Hello world: rank 11 of 16 running on work1
Hello world: rank 12 of 16 running on work1
Hello world: rank 13 of 16 running on work1
Hello world: rank 14 of 16 running on work1
Hello world: rank 15 of 16 running on work1
```