

组会报告

徐益

2018 年 9 月 17 日

1 工作内容

1. 数据采集测试;

2 数据采集测试

2.1 ramdisk

2.1.1 传统 ramdisk

```
1 # mkdir /mnt/test
2 # mke2fs /dev/ram0
3 # mount /dev/ram /mnt/test
```

写入速率: 700MB/s 800MB/s

2.1.2 ramfs

```
1 # mkdir /testRam
2 # mount -t ramfs none /testRAM
3 # mount -t ramfs none /testRAM -o maxsize=2000
```

写入速率: 900MB/s 1100MB/s

2.1.3 tmpfs

```
1 # mkdir -p /mnt/tmpfs
2 # mount tmpfs /mnt/tmpfs -t tmpfs
3 # mount tmpfs /mnt/tmpfs -t tmpfs -o size=32g
```

写入速率: 1.2GB/s 1.3GB/s

2.2 测试结果

```
mimo5g1@mimo5g1-sever: /media/mimo5g1/0c73c5cf-4c13-4876-8bc1-d3b3e21a0254/data_collection$  
Port statistics =====  
Statistics for port 0 -----  
Packets sent: 0  
Packets received: 10077337  
Packets dropped: 0  
Aggregate statistics =====  
Total packets sent: 0  
Total packets received: 10077337  
Total packets dropped: 0  
=====  
err_pkg_times = 8663, err_pkg_num = 1909364, nvld_pkg_num=10070581  
send_rate = 0.00Gbps, receive_rate = 4.24Gbps  
mimo5g1@mimo5g1-sever: /media/mimo5g1/0c73c5cf-4c13-4876-8bc1-d3b3e21a0254/data_collection$
```

图 1: 向 ssd 写入

```
mimo5g1@mimo5g1-sever: /mnt/tmpfs/data_collection$  
Port statistics =====  
Statistics for port 0 -----  
Packets sent: 0  
Packets received: 12338169  
Packets dropped: 0  
Aggregate statistics =====  
Total packets sent: 0  
Total packets received: 12338169  
Total packets dropped: 0  
=====  
err_pkg_times = 0, err_pkg_num = 0, nvld_pkg_num=12338169  
send_rate = 0.00Gbps, receive_rate = 5.03Gbps  
mimo5g1@mimo5g1-sever: /mnt/tmpfs/data_collection$
```

图 2: 向 tmpfs 写入