














-  3.646 PiB



-  bbfs
-  fsb  fs04  fs08  fs09  fs10  fs12  fs13  fs14
-  fs00
-  /archive



<https://table.nju.edu.cn/dtable/view-external-links/custom/hpc-storage/>



Tier 0 



/bbfs

100% NVMe SSD100% Burst Buffer100%

- 100% bbfs
- 100% 100%
- 100% 117 TiB
- IO100% 4*HPE ProLiant DL380 Gen10: bb01 bb02 bb03 bb04
- CPU: 2*Intel Xeon Gold 5122 (2 Cores, 16.5MB Cache, 3.60 GHz)
- RAM: 192 GB (12x16GB), 6 Channels, DDR4-2666 ECC RDIMM
- Network: 2*25 Gigabit Ethernet, 100 Gbit/s EDR InfiniBand, 100 Gbit/s Omni-Path
- SSD: 8*Intel SSD DC P4510, 64-Layer TLC 3D NAND, 4TB 6.3PBW, 2.5in U.2 15mm, PCIe 3.1 x4 NVMe
- 100%

/bbfs/fs*/

100% /fs*/100% /bbfs/fs*/ 100% /fs*/ 100% /bbfs/fs*/

100% /fs*/ 100% /bbfs/fs*/ 100% /fs*/

100%

100% /fsb/home/yaoge/yaoge/in

100%

/bbfs/fsb/home/yaoge/yaoge/in100% SSD

100%

100% /bbfs/fsb/home/yaoge/yaoge/out

100% SSD100% /fsb/home/yaoge/yaoge/out

100%

/bbfs/scratch/

30 atime
checkpoint .tmp .temp

Check Point
/bbfs/scratch/yaoge
SSD

Tier 1

/snapshot












/fsb /fsb/.snapshots /fsb/.snapshots/20220804-1800 2022 8 4 18 0

/fsb















- 100%
- 1291.6 TiB
- 0 7 2
- Lenovo DSS-G 210
- 2*Lenovo ThinkSystem SR655 V3: dss01 dss02
- 2*25 Gigabit Ethernet, 200 Gbit/s HDR InfiniBand
- JBOD 1*Lenovo D4390
- 88*Western Digital Ultrastar DC HC570 22TB 3.5-inch 7.2Krpm 12Gb/s SAS
2*Samsung PM1655 800GB 3DWPD 2.5-inch 24Gb/s SAS 24Gb

-  Reed-Solomon code 8+2p 3





/fs04

-  100%
-  13.1 TiB
- IO Dell PowerEdge 12G R720xd: io08
-  2*10 Gigabit Ethernet
- RAID Dell PERC H710P Mini (LSI SAS2208 ROC), 1GB cache with Intelligent Battery Backup Unit
-  900GB 2.5-inch 10Krpm 6Gb/s SAS 5 RAID5 4 RAID5 2

/fs08

-  100%
-  13.1 TiB
- IO 2*Inspur NF5270M3: io10 io11
-  2*1 Gigabit Ethernet, 40 Gbit/s QDR InfiniBand
-  Inspur AS500H (NetApp E2600) 4GB 
Write caching with mirroring, High Performance Tier
-  900GB 2.5-inch 10Krpm 6Gb/s SAS 5 RAID5 4 RAID5 2

/fs09

-  100%
-  23.5 TiB
- IO 2*Inspur NF5270M3: io10 io11
-  2*1 Gigabit Ethernet, 40 Gbit/s QDR InfiniBand

- 配置 Inspur AS500H (NetApp E2600) 12 盘 4GB 内存
Write caching with mirroring, High Performance Tier
- 配置 3TByte 3.5-inch 7.2Krpm 6Gb/s NL-SAS 12 盘 Disk Pool 1 1 盘
2 虚拟磁盘

/fs10

- 配置 100%
- 配置 9.8 TiB
- IO 配置 Inspur NF5270M3: io12
- 配置 2*1 Gigabit Ethernet, 40 Gbit/s QDR InfiniBand
- RAID 配置 LSI MegaRAID SAS 9271-8i (LSI SAS2208 ROC), 1GB 内存
- 配置 900GB 2.5-inch 10Krpm 6Gb/s SAS 5 盘 RAID5 3 盘 RAID5 1 盘

/fs12













- 配置 100%
- 配置 13.1 TiB
- IO 配置 2*HP ProLiant DL380 Gen9: io01 io02
- 配置 2*10 Gigabit Ethernet, 56 Gbit/s FDR InfiniBand
- 配置 HP MSA 2040 SAN 4GB 内存
- 配置 900GB 2.5-inch 10Krpm 6Gb/s SAS 5 盘 RAID5 4 盘 RAID5 3 盘

/fs13

- 配置 100%
- 配置 29.1 TiB
- IO 配置 2*HP ProLiant DL380 Gen9: io01 io02
- 配置 2*10 Gigabit Ethernet, 56 Gbit/s FDR InfiniBand



















-  HP MSA 2040 SAN 4GB 
-  4TByte 3.5-inch 7.2Krpm 6Gb/s SAS 6 RAID6 2 RAID6 1

/fs14

-  100%
-  262 TiB
- IO Dell PowerEdge R730: io13
-  2*10 Gigabit Ethernet
- RAID Dell PERC H730P Mini (LSI SAS3108 ROC), 2GB NV cache with Intelligent Battery Backup Unit
-  8TByte 3.5-inch 7.2Krpm 12Gb/s SAS RAID6
- RAID Dell PERC H830 (LSI SAS3108 ROC), 2GB NV cache with Intelligent Battery Backup Unit
- JBOD 8TByte 3.5-inch 7.2Krpm 12Gb/s SAS RAID6 8 RAID6



/fs00

-  100%
-  3.3 TB
-  0 7 12
- IO HP ProLiant DL380 Gen9: io01 io02
-  2*10 Gigabit Ethernet, 56 Gbit/s FDR InfiniBand
-  HP MSA 2040 SAN 4GB 
-  900GB 2.5-inch 10Krpm 6Gb/s SAS RAID1 2 RAID1 1
- IO Inspur NF5270M3: io10 io11

/archive /archive/.zfs/snapshot /archive/.zfs/snapshot/20220904-0000 2022 9 4
 0 0

Tier 2

s3.nju.edu.cn

- 100%
- 2.12 PB
- UniverStor P20000
- 12*10 Gigabit Ethernet
- Large object: 15/4, Small object: 6/4
- S3
- Endpoint: http://s3.nju.edu.cn OR https://s3.nju.edu.cn
- Region: " " us-east-1
-

-
- 24

/tmp/ /var/tmp/

/dev/shm/



/ssd/ /tmp/ssd



SSD



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