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□□□□	/bbfs	117 TiB	NVMe SSD	NVMe SSD	-	-
□□□□	/fsa	361 TiB	SAS SSD	7.2Krpm HDD	□□0□	□□□□□□7□ □□□□□□2□
□□□□	/fs04	14 TiB	10Krpm HDD	10Krpm HDD		
□□□□	/fs08	14 TiB	10Krpm HDD	10Krpm HDD	□□0□	□□□□□□3□
□□□□	/fs09	24 TiB	7.2Krpm HDD	7.2Krpm HDD	□□0□	□□□□□□7□ □□□□□□2□
□□□□	/fs10	9.9 TiB	10Krpm HDD	10Krpm HDD		
□□□□	/fs12	14 TiB	10Krpm HDD	10Krpm HDD		
□□□□	/fs13	30 TiB	7.2Krpm HDD	7.2Krpm HDD		
□□□□	/fs14	262 TiB	7.2Krpm HDD	7.2Krpm HDD		
□□□□	/fs00	3.3 TiB	10Krpm HDD	10Krpm HDD	□□0□	□□□□□□7□ □□□□□□12□
□□□□	/archive	1.91 PiB	7.2Krpm HDD	7.2Krpm HDD	□□0□	□□□□□□7□ □□□□□□4□
□□□□	s3.nju.edu.cn	2.12 PB	SATA SSD	7.2Krpm HDD	-	-
□□□□	/dev/shm		RAM	RAM	-	-
□□□□	/tmp		HDD/SSD	HDD/SSD	-	-
□□□□	/ssd		SSD	SSD	-	-

□□□□

□□□□Tier 0□

[illegible]/[illegible]

/bbfs

[illegible]NVMe SSD[illegible]Burst Buffer[illegible]

- [illegible]bbfs
- [illegible]100%
- [illegible]117 TiB
- IO[illegible]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
- [illegible]

/bbfs/fs*/

[illegible]/fs*/[illegible]/bbfs/fs*/ [illegible] /fs*/ [illegible] /bbfs/fs*/ [illegible] /fs*/ [illegible] /bbfs/fs*/

[illegible] */fsa/home/yaoge/in*[illegible] */bbfs/fsa/home/yaoge/in*[illegible]

[illegible] */bbfs/fsa/home/yaoge/out*[illegible]*SSD*[illegible] */fsa/home/yaoge/out*

/bbfs/scratch/

[illegible]30[illegible]atime[illegible]checkpoint[illegible] .tmp [illegible] .temp [illegible]

[illegible]*Check Point*[illegible]*/bbfs/scratch/yaoge*[illegible]*SSD*[illegible]

[illegible]Tier 1[illegible]

[illegible]

[illegible]

[illegible]/.snapshot[illegible]

[illegible]*/fsa*[illegible]*/fsa/.snapshots*[illegible]*/fsa/.snapshots/20220804-1800*[illegible]*2022*[illegible]*8*[illegible]*4*[illegible]*18*[illegible]*0*[illegible]

/fsa

- [illegible]100%
- [illegible]361 TiB
- IO[illegible]2*HP ProLiant DL380 Gen9: io01 io02
- [illegible]2*10 Gigabit Ethernet, 56 Gbit/s FDR InfiniBand
- [illegible]DDN SFA7700X[illegible] 32GB [illegible]
- [illegible]Data: 10TB 3.5-inch 7.2Krpm 12Gb/s SAS[illegible]10[illegible]RAID6[illegible]5[illegible]RAID6[illegible]Metadata: Toshiba Enterp
  SSD PX02SMU040 MLC 10DWPD 400GB 2.5-inch 12Gb/s SAS[illegible]10[illegible]RAID6[illegible]

/fs04

- [illegible]100%
- [illegible]14 TiB
- IO[illegible]Dell PowerEdge 12G R720xd: io08
- [illegible]2*10 Gigabit Ethernet
- RAID[illegible]Dell PERC H710P Mini (LSI SAS2208 ROC), 1GB cache with Intelligent Battery Backup Unit
- [illegible]900GB 2.5-inch 10Krpm 6Gb/s SAS[illegible]5[illegible]RAID5[illegible]4[illegible]RAID5[illegible]2[illegible]

/fs08

- [illegible]100%

- □□□□□14 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
- □□□900GB 2.5-inch 10Krpm 6Gb/s SAS□□5□□□□□RAID5□4□RAID5□2□□□□□

/fs09

- □□□□□100%
- □□□□□24 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
- □□□3TByte 3.5-inch 7.2Krpm 6Gb/s NL-SAS□12□□□□□Disk Pool□□□1□□□□□□□2□Virtual Disk

/fs10

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

/fs12

- □□□□□□100%
- □□□□□14 TiB
- IO□□□2*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□□5□□□□□RAID5□4□RAID5□3□□□□□

/fs13

- □□□□□□□100%
- □□□□□30 TiB
- IO□□□2*HP ProLiant DL380 Gen9: io01 io02
- □□□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□6□□□□□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□6□□□□□RAID6□8□RAID6

□□□□

/fs00

- □□□□□□□100%
- □□□□3.3 TB
- 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□2□□□□□RAID1□2□RAID1□1□□□□□
- IO□□□Inspur NF5270M3: io10 io11
- □□□2*1 Gigabit Ethernet, 40 Gbit/s QDR InfiniBand
- □□□Inspur AS500H (NetApp E2600)□□□□□□□□□ 4GB □□□□□□□□□□Write caching with mirroring, High
- □□□900GB 2.5-inch 10Krpm 6Gb/s SAS□2□□□□□RAID1□2□□□□□
- IO□□□□□Inspur NF5270M3: io12
- □□□2*1 Gigabit Ethernet, 40 Gbit/s QDR InfiniBand
- RAID□□LSI MegaRAID SAS 9271-8i (LSI SAS2208 ROC), 1GB cache with Battery Backup Unit
- □□□900GB 2.5-inch 10Krpm 6Gb/s SAS□2□□□□□RAID1□1□□□□□
- □□□RAID1+□□□□□□□□

□□□□□Tier 2□

□□□□□□□□□□□□□

/archive

- □□□□□□□100%
- □□□□1.91 PiB
- IO□□□□□Dell PowerEdge R740xd: stor.nju.edu.cn
- □□□2*25 Gigabit Ethernet

- [illegible]RAID-Z 3
- [illegible]

[illegible]

[illegible]/.zfs/snapshot[illegible]

[illegible]*/archive*[illegible]*/archive/.zfs/snapshot*[illegible]*/archive/.zfs/snapshot/20220904-0000*[illegible]*2022*[illegible]*9*[illegible]*4*[illegible]*0*[illegible]*0*[illegible]

[illegible]Tier 2[illegible]

[illegible]

s3.nju.edu.cn

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

[illegible]

- [illegible]
- [illegible]24[illegible]

/tmp/ /var/tmp/

□□□□□□□□□□□□□□□

/dev/shm/

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/ssd/ /tmp/ssd

□□□□□□□□SSD□□□□□□□□□□□□□□

□□□□

/fs04

- □□□□□885 GB
- IO□□□□□IBM System x3650: io03
- RAID□□IBM ServeRAID 8k (Adaptec), 256MB cache with battery
- □□□146GB 3.5-inch 10Krpm 3Gb/s SAS□□5□□□□□RAID5□□□□1□□2□RAID5□□□□1□□□□

/fs02

- □□□□□7.3 TB
- IO□□□IBM System x3650 M3: io05
- □□□Chelsio 20 Gigabit Ethernet
- □□□IBM System Storage DS3200, 1GB cache with battery backup
- □□□2TByte 3.5-inch 7.2Krpm 3Gb/s SATA□6□□□□□RAID6

/fs06

- □□□□□443 GB

- IO□□□□□HP ProLiant DL380 G5: io09
- □□□□□20 Gbit/s DDR InfiniBand
- RAID□□HP Smart Array P400, 512MB Battery-Backed Write Cache
- □□□146GB 2.5-inch 10Krpm 3Gb/s SAS□5□□□□□RAID5□1□□□□

/fs07

- □□□□□7.3 TB
- IO□□□HP ProLiant DL380 G5: io09
- □□□□□20 Gbit/s DDR InfiniBand
- □□□HP StorageWorks MSA2312sa G2 □□□□
- □□□1TByte 3.5-inch 7.2Krpm 3Gb/s SATA□□6□□□□□RAID6□2□RAID6

/fs05

- □□□□□1010 GB
- IO□□□□□HP ProLiant DL380 G5: io04
- RAID□□HP Smart Array P400, 512MB Battery-Backed Write Cache
- □□□300GB 2.5-inch 10Krpm 3Gb/s SAS□5□□□□□RAID5□1□□□□

/fs05b

- □□□□□932 GB
- IO□□□□□HP ProLiant DL380 G5: io04
- RAID□□HP Smart Array P400, 512MB Battery-Backed Write Cache
- □□□1TByte 2.5-inch 7.2Krpm 3Gb/s NL-SAS□1□□RAID0

/fs03

- □□□□□2.2 TB
- IO□□□□□Dell PowerEdge 12G R720: io07

- RAID□□Dell PERC H710P Mini (LSI SAS2208 ROC), 1GB cache with Intelligent Battery Backup Unit
- □□□600GB 2.5-inch 10Krpm 6Gb/s SAS□5□□□□□RAID5□1□□□

/fs11

- □□□□□16 TB
- IO□□□Dell PowerEdge 12G R720: io07
- □□□Dell MD3200i □□□2GB cache with battery backup
- □□□2TByte 3.5-inch 7.2Krpm 6Gb/s NL-SAS□12□□□□□Disk Pool□□□1□□□□□□□□□Virtual Disk

/fs01

- □□□□□fs01
- □□□□□□□100%□□□□□50%□□□□50%□
- □□□□□4.4 TB
- IO□□□□□IBM System x3650 M3: io05 io06
- □□□Chelsio 2*10 Gigabit Ethernet
- RAID□□IBM ServeRAID M5015 (LSI SAS2108 ROC), 512MB cache with Battery Backup Unit
- □□□300GB 2.5-inch 10Krpm 6Gb/s SAS□□5□□□□□RAID5□□□□2□□4□RAID5□□□□1□□□□

Revision #85
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