Massiv Parallel Compute Cluster MaPaCC 2023



Massiv Parallel Compute Cluster 4th generation

Hardwarecomponents:

94 compute nodes

- 2x CPU Intel E5-2650 v4 2,2 GHz base frequency
- 128 GByte local meeory (RAM)
- local SSD 256 Gbyte capacity
- FDR infiniband interconnect

5 highmem nodes

- 2x CPU AMD AMD EPYC 7601 32-Core 2,2 GHz base frequency
- 2 TeraByte local memory (RAM)
- local SSD 512 Gbyte capacity
- HDR100 infiniband interconnect

9 visualization nodes

- 2x CPU Intel
- 512-786 GByte local memory (RAM)
- local SSD 512 Gbyte capacity
- QDR/FDR infiniband interconnect

2 login nodes

- 2x CPU Intel E5-2650 v3 2,3 GHz base frequency
- 512 GByte local memory (RAM)
- local SSD

- QDR/FDR infiniband interconnect

3 transfer nodes

- 4x AMD Intel
- 128 GByte local memory (RAM)
- local SSD
- QDR/FDR infiniband interconnect

GPU nodes

- 2x Supermicro A+ Server 4124GS-TNR: 2x AMD EPYC 7F52 16-Core, 512 GByte RAM, 4x Nvidia A100 PCIe, local NVMe
- 3x Supermicro A+ Server 2124GQ-NART: 2x AMD EPYC 7F52 16-Core, 512 GByte RAM, 4x Nvidia A100 SXM4, local NVMe
- 2x Gigabyte G492-ZD0: 2x AMD EPYC 7742 64-Core, 1024 GByte RAM, 8x Nvidia A100 SXM4, local NVMe

scratch storage

- 500 Terabyte capacity
- Beegfs Filesystem
- 4 Objectserver & 1 Metadataserver
- FDR infiniband interconnect
- **no backup!**

nfs based storage

- 300 Terabyte capacity
- 6 NFS fileserver
- 6 filesystems
- FDR infiniband interconnect
- **with backup!**

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