

Massiv Parallel Compute Cluster MaPaCC 2023



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Massiv Parallel Compute Cluster 4th generation

Hardware components:

94 compute nodes

- 2x CPU Intel [E5-2650 v4](#) 2,2 GHz base frequency
- 128 GByte local memory (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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