SuperMUC-NG consists of:

- 6,336 Thin compute nodes each with 48 cores and 96 GB memory
- 144 Fat compute nodes each 48 cores and 768 GB memory per node

System Overview

In total 311,040 compute cores with a main memory of 719 TB and a peak performance of 26.9 PetaFlop/s are available. All compute node are equipped with Intel Xeon Skylak' processors. The internal interconnect is a fast OmniPath network with 100 Gbit/s.

The compute nodes are bundled into 8 domains (islands). Within one island, the OmniPath network topology is a 'fat tree' for highly efficient communication. The OmniPath connection between the islands is pruned (pruning factor 1: 4).

In addition to the compute nodes there are 64 nodes in the Compute Cloud of SuperMUC-NG (half of them equipped with 2 GPUs each), and one huge memory node with 6 TB and 192 cores.

For more details, see Hardware of SuperMUC-NG

Documentation

Contact and Support

- Servicedesk for SuperMUC-NG

Using the System

- Building and Running applications on SuperMUC-NG
- Job Processing with SLURM on SuperMUC-NG
- File Systems of SuperMUC-NG
  - Data Migration from SuperMUC to SuperMUC-NG
  - Data Transfer Options on SuperMUC-NG
- HPC Software and Programming
  - see also: lrztools and lrzlib on SuperMUC-NG
  - also: use command `sw-info` or `command module av`
- Compute Cloud of SuperMUC-NG

Courses

- Courses, Training and Events for HPC

User Affairs

- Access and Login to SuperMUC-NG
- Application for a project on SuperMUC-NG
- File Systems of SuperMUC-NG
- Data Migration from SuperMUC to SuperMUC-NG
- Data Transfer Options on SuperMUC-NG
- HPC Software and Programming
- see also: lrztools and lrzlib on SuperMUC-NG
- also: use command `sw-info`, or command `module av`
- Compute Cloud of SuperMUC-NG

Public Relations

- Gauss Centre for Supercomputing
- Public Relations for HPC (including the scientific results obtained)

Status

- SuperMUC-NG Status
- Usage Statistics for SuperMUC

Legal

- Data Privacy
- Rules