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 nodes are equipped with Intel Xeon Skylake 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 details see: Hardware of SuperMUC-NG