



COMPUTE, NETWORK AND STORAGE AT JSC



Jülich Supercomputing Centre provides

- Highly-scalable and general purpose supercomputers
- Cluster systems for special communities
- Technology prototypes and evaluation platforms
- Cloud Infrastructures
- High-speed networks
- Data systems and services

JUWELS Cluster



122,768 cores Intel Skylake
224 NVIDIA V100 GPUs
275 TB memory
12.27 PetaFLOP/s

JUWELS Booster



44,928 cores AMD EPYC Rome
3744 NVIDIA A100 GPUs
629 TB memory
73.02 PetaFLOP/s

JURECA-DC



98,304 cores AMD EPYC Rome
768 NVIDIA A100 GPUs
443 TB memory
18.51 PetaFLOP/s

Data Centre Network – 200 TBit/s connectivity (bandwidth)

X-WiN
(2 x 100 GBit/s)

LOFAR
(8 x 10 GBit/s)
HIFIS (VPN)

Connection to



Internet

JUSUF

Contribution to the Fenix
Research Infrastructure
26,240 cores AMD EPYC Rome
61 NVIDIA V100 GPUs
1.37 PetaFLOP/s

JEDI

First JUPITER Booster Rack
48 Nodes with 192 NVIDIA GH200
Grace Hopper Superchips
~8 PetaFLOP/s

JSC Cloud

12,384 cores
36.5 TB memory
Accelerators
NVIDIA V100
NVIDIA A100
NVIDIA RTX A6000
AMD MI210

62 NVMe, passthrough
NVMe and HDD volumes

DEEP

Technology prototype
2568 cores, 17.1 TB,
150 TeraFLOP/s
91 V100 GPUs, 2.9 TB,
764 TeraFLOP/s

Evaluation Platforms

Connected to JURECA:
NVIDIA GH200 nodes
AMD MI250 GPU nodes
Graphcore Pod 4

Cluster systems and technology prototypes

JUST (Jülich Storage)



200 PB

Tape Infrastructure



356 PB

Contact: b.von.st.vieth@fz-juelich.de | Website: go.fzj.de/jsc-systems