

COMPUTER AND NETWORK RESOURCES AT JSC



The Jülich Supercomputing Centre provides

- leadership-class supercomputers
- general-purpose supercomputers
- cluster systems for special applications and communities
- technology prototypes
- high-speed networks



X-WIN (2 x 100 GBit/s)
 PRACE (MD-VPN)
 LOFAR (8 x 10 GBit/s)

JUWELS
BULL Sequana X 1000



121,648 cores, 270 TByte,
 10.56 PFlops
 224 V100 GPUs, 3 TByte
 1.44 PFlops

JURECA Cluster



90,432 CPU cores, 278 TByte,
 1.8 PFlops
 150 K80 GPUs, 3.6 TByte
 436 TFlops

JURECA Booster



111,520 cores (KNL)
 154 TByte
 5 PFlops

Tape libraries



270 PByte

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

JUROPA-3

960 cores, 8 Xeon Phi
 8 GPUs, 5,120 GByte
 34 TFlops

JUMAX

(PRACE-3IP PCP
 Pilot System)
 64 cores (AMD RYZEN)
 Maxeler MPC-X with
 8 MAX5 cards

JURON

(HBP Pilot System)
 720 cores (POWER 8)
 4.6 TByte
 381.6 TFlops (GPUs) + 11.6
 TFlops (CPUs)

JUAMS

1,960 cores
 8,960 GByte
 72 TFlops

QPACE3

43,008 cores
 48 TByte
 1.8 PFlops

DEEP-EST Cluster

1200 cores
 4 TByte
 45 TFlops

Disk storage



120 PByte

Cluster systems and technology prototypes

Contact: s.hoefler-thierfeldt@fz-juelich.de | Website: www.fz-juelich.de/ias/jsc/

Mitglied der Helmholtz-Gemeinschaft