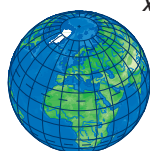


Computer and Network Resources at JSC



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 10 GBit/s)
PRACE (MD-VPN)

LOFAR (8 x 10 GBit/s)



IBM Blue Gene/Q JUQUEEN
458,752 cores, 448 TByte
5.9 PFlops



JURECA Cluster
90,432 CPU cores, 278 TByte,
1.8 PFlops
748,800 CUDA cores, 3.6 TByte
436 TFlops



JURECA Booster
111,520 cores (KNL)
154 TByte
5 PFlops



Tape libraries
max. 141 PByte

Campus network JuNet – 23,000 connected devices



Disk storage
21 PByte

JUROPA-3 960 cores, 8 Xeon Phi 8 GPUs, 5,120 GByte 34 TFlops	BGAS 512 cores 4 TByte FLASH Memory 6.5 TFlops	JULIA (HBP Pilot System) 3840 cores (KNL) 6.7 TByte 159.7 TFlops	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 Cluster 2,048 cores 4 TByte 45 TFlops	DEEP Booster 23,424 cores 6 TByte 460 TFlops

Cluster systems and technology prototypes