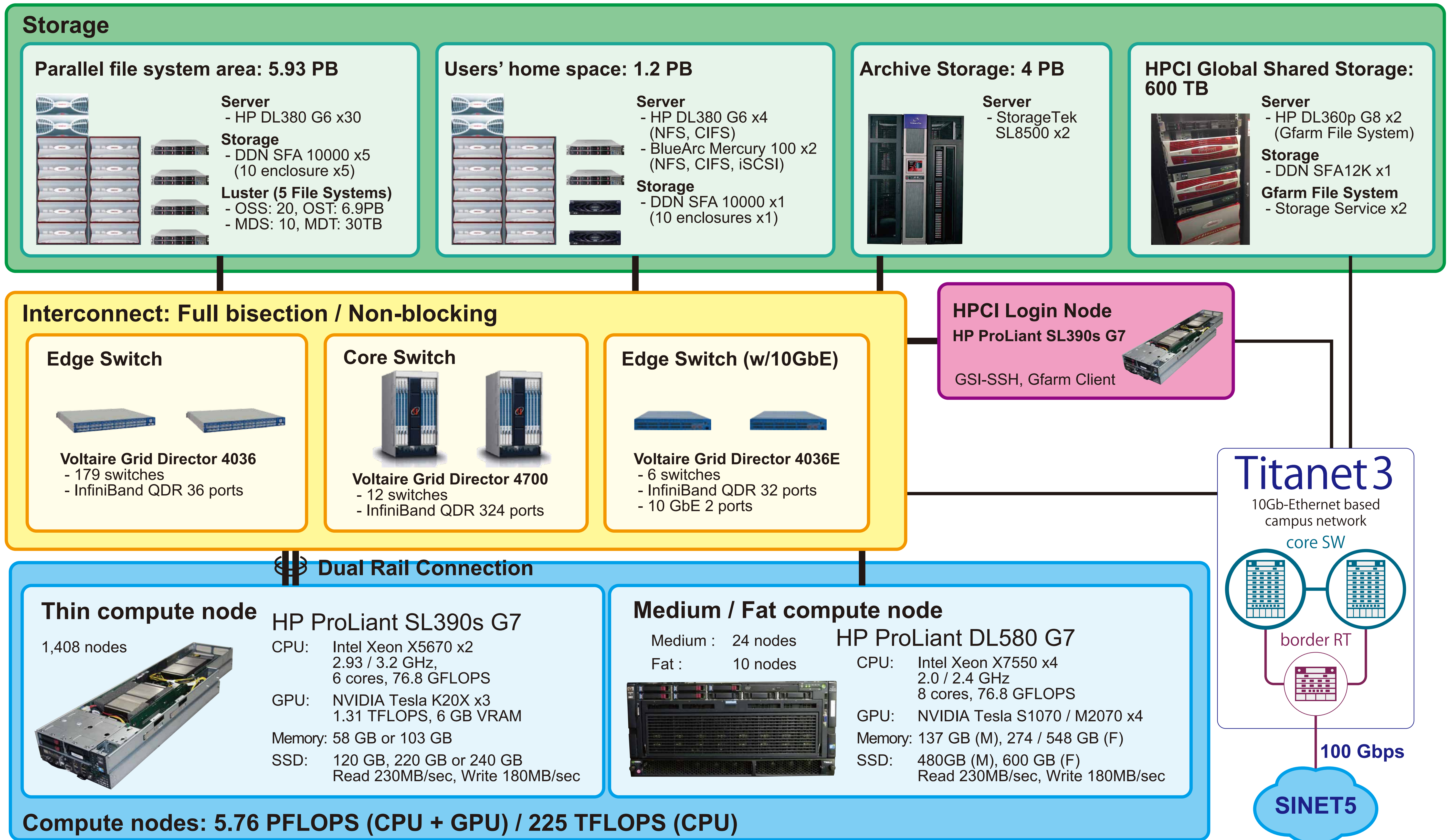




TSUBAME 2.5

Architecture & Services

Hardware



Software

System Software

- OS: SUSE Linux Enterprise Server 11 SP3,
- Compiler: Intel Compiler, PGI CDK, GNU Compiler Collection
- MPI: OpenMPI, MVAPICH2
- Job Scheduler: PBS Professional

Software for GPU Computing

- Computing Architecture: CUDA 7.5
- Automatic Parallelization: PGI Accelerator Compiler
- Linear Algebra Library: CULA

Validated Applications

ABAQUS, AMBER, ANSYS Fluent / Mechanical, AVS Express, CST STUDIO SUITE, Discovery Studio, GAMESS, Gaussian, GROMACS, LS-DYNA, Maple, Materials Studio, Mathematica, MATLAB, MSC Nastran / Marc, POV-Ray

Optional Applications

Desmond MD, LAMMPS, myPresto/psygene-G, NAMD, NWChem, PHASE, Quantum Espresso, Remcom XFtd, STAR-CCM+, VASP, Caffe, Theano, Chainer, TensorFlow

Debug & Performance Analysis Tools

PAPI, Scalasca, Score-P, TotalView, Vampir
(Red: GPU Ready, Blue: GPU Experimental Support)

HPCI Confederation

HPCI : High Performance Computing Infrastructure

- National grid infrastructure for HPC research

Resources

- 11 supercomputers in Japan, including TSUBAME 2.5
- 100PB global shared storage to share data

Services

- One-stop sign up to all resources
- Single sign on to all resources using Shibboleth & GSI

Status

- 28 projects and 198 users use TSUBAME 2.5 for the HPCI project on FY2016

For more details, Please go to booth #737

"Research Organization for Information Science & Technology (RIST)"

