

Outline of the new supercomputing system

Model	CPU、GPU	Memory capacity	Interconnects	Total number of nodes	Total peak performance
Cary XC50-LC	Intel Xeon Gold 6150 ×2 (18cores, 2.7 GHz)	768 GiB / node	Aries (One direction: 15.75 GB/s)	293	911 TFLOPS
Cray CS-Storm 500GT	Intel Xeon Gold 6150 ×2 (18cores, 2.7 GHz) NVIDIA Tesla V100 for PCIe×10	768 GiB / node	InfiniBand EDR (One direction:12.5 GB/s)	29	CPU: 90 TFLOPS GPU: 2,030 TFLOPS
HPE ProLiant DL360 Gen10	Intel Xeon Gold 6154 ×2 (18 cores, 3.0 GHz)	576 GiB / node	InfiniBand EDR (One direction:12.5 GB/s)	29	100 TFLOPS
HPE ProLiant DL380 Gen10	Intel Xeon Gold 6140 ×2 (18 cores, 2.3 GHz) NVIDIA Quadro P2000 ×2	576 GiB / node	InfiniBand EDR (One direction:12.5 GB/s)	5	13 TFLOPS

Compiler:

Intel Parallel Studio XE
Cray Development Environment
PGI Professional Edition

Storage System

Total disk capacity : 4.0 PB

Available applications:

	Cray XC50-LC	Cray CS-Storm 500GT	HPE ProLiant DL360 Gen10	HPE ProLiant DL380 Gen10
Gaussian 16	○	△	○	
GaussView 6			○	○
ADF	○	△	○	
ADF-GUI				○
Mathematica			○	
MATLAB			○	
ANSYS Mechanical CFD			○	
AVS/Express Developer			○	
Materials Studio	○	△	○	
ATK (Atomistix ToolKit)	○	△	○	
VNL (Virtual NanoLab)				○
CRYSTAL	○	△	○	
VASP	○	○	○	
WIEN2k	○	△	○	
SIESTA	○	△	○	
ABINIT	○	○	○	
CPMD	○	△	○	
Quantum ESPRESSO	○	○	○	
LAMMPS	○	○	○	
MOLDEN				○
MOLEKEL				○
XCrySDen				○

△ : executed only on CPU