Information Technology Center, The University of Tokyo
Next Generation Supercomputer System Overview

Compute nodes, Interactive nodes

PRIMEHPC FX10 x 50 racks
(4,800 comp. nodes, 300 I/O nodes)

Peak Performance: 1.13 PFLOPS
Memory capacity: 150 TB
- aggregated memory bandwidth: 398 TB/sec

Interconnect: 6D mesh/torus - "Tofu"
- node-to-node: 5 GB/sec in both directions
- network bi-section bandwidth: 6 TB/sec.

Management servers

Job management, operation management, authentication servers:

PRIMERGY RX200S6 x 16

Local file system

PRIMERGY RX300 S6 x 2 (MDS)
ETERNUS DX80 S2 x 150 (OST)
Storage capacity: 1.1PB (RAID-5)

Shared file system

PRIMERGY RX300 S6 x 8 (MDS)
PRIMERGY RX300 S6 x 40 (OSS)
ETERNUS DX80 S2 x 4 (MDT)
ETERNUS DX410 S2 x 80 (OST)
Storage capacity: 2.1PB (RAID-6)

Log-in nodes

PRIMERGY RX300 S6 x 8

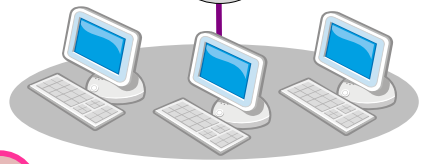
InfiniBand network

External file system

Ethernet network

External connection router

LAN/WAN



End users

InfiniBand
Ethernet
FibreChannel

* MDS: Meta Data Server.
OSS: Object Storage Server.

MDT: Meta Data Target.
OST: Object Storage Target.