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Cluster system

Overview

"Cluster computing system", built for purpose of analyzation and simulation based on platform data, consists of one cluster management node, 60 computing nodes (including 12 nodes for cloud system) and high-performance storage. Each computing node has two CPU sockets of Intel Xeon E5-2680 v3 (with frequency 2.5 Ghz and 3.5 Ghz in Turbo) and the whole system of 48 nodes with 1,152 cores performs to 46TFlops theoretically. The high-performance storage is a lustre file system boasting of 230TB capacity as an integration base of the material data.

Specification of the cluster computing system

| | |
|-------------------------------|---|
| Processor | Intel Xeon E5-2680 V3 (2.5GHz, 12cores) x 2 |
| Number of computational nodes | 60 (including 12 nodes for cloud system) |
| Total Memory | 2.8TB (48GB/node x 60) |
| Interconnect | InfiniBand 4X |
| Storage | 230TB |

 **Only access from NIMS**

Users can see "[details of Cluster system](#)".