This site explains the content and usage of the data platform constructed by Mizh, that is being conducted as the 351 minovation rub.					
Mi <sup>2</sup> i "Materials research by Information Integration" Initiative 情報統合型物質・材料開発イニシアティブ				🖒 Login	Japanese English
🛧 Database API	Tools	Cluster system	Cloud system	Usoge guide	Reference
LINK  RIKEN Advanced Institute for Computational Science (AICS)	Home       > Cluster system (Overview)         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".



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