

	Broadwell Nodes	Haswell Nodes
Number of Nodes	2,016	2,052
Processors per Node	2 fourteen-core processors per node	2 twelve-core processors per node
Node Types	Intel Xeon E5-2680v4 processors	Intel Xeon E5-2680v3 processors
Processor Speed	2.4 GHz	2.5 GHz
Cache	35 MB for 14 cores	30 MB for 12 cores
Memory Type	DDR4 FB-DIMMs	DDR4 FB-DIMMs
Memory Size	4.6 GB per core, 128 GB per node	5.3 GB per core, 128 GB per node
Host Channel Adapter	InfiniBand FDR host channel adapter and switches	InfiniBand FDR host channel adapter and switches

GPU-Enhanced Nodes

	Sandy Bridge + GPU Nodes	
Number of Nodes	64	1
Processors per Node	Two 8-core host processors and one GPU coprocessor (2,880 CUDA cores)	T r
Node Types	Intel Xeon E5-2670 (host); NVIDIA Tesla K40 (GPU)	I
Processor Speed	2.6 GHz (host); 745 MHz (GPU)	3
Cache	20 MB for 8 cores (host)	2
Memory Type	DDR3 FB-DIMMS (host); GDDR5 (GPU)	I

