

# DEEP



## CLUSTER

**1 Rack: 8 backplanes x 16 nodes (total 128)**

<b>Nodes</b>	2 x Intel(R) Xeon(R) CPU E5-2680, 32 GB RAM
<b>Processors</b>	56 x Intel(R) Xeon(R) CPU E5-2680 (2048 cores)
<b>Overall peak performance</b>	45 TFlop/s
<b>Main Memory</b>	4 TB (aggregate)
<b>Network</b>	1 Gigabit-Ethernet, 3D torus (FPGA based) InfiniBand (QDR)
<b>Power consumption</b>	50 kW (aggregate)
<b>Operating system</b>	CentOS
<b>Vendor</b>	Eurotech

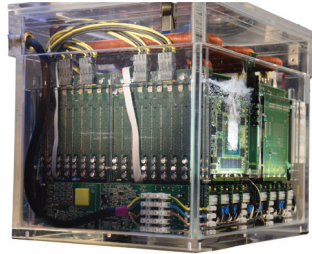
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## Aurora BOOSTER

**1 rack: 24 backplanes in 12 chassis**  
24 x Booster Interface Cards (BIC)  
16 x 2 Booster Nodes (BNs)/chassis (384 tot)

<b>Processor</b>	Intel Xeon Phi 7120X
<b>Main memory</b>	6.1 TB (aggregate)
<b>Overall peak performance</b>	500 TFlop/s
<b>Network</b>	Gigabit-Ethernet, 3D EXTOLL Torus (BNCs) InfiniBand FDR (BICs)
<b>Power consumption</b>	Max. 150 kW
<b>Operating system</b>	Linux
<b>Vendor</b>	Eurotech



## GreenICE BOOSTER

**1 cube with 32 Booster Nodes (BN)**

<b>Processor</b>	Intel Xeon Phi 7120D
<b>Main memory</b>	512 GB (aggregate)
<b>Overall peak performance</b>	38.4 TFlop/s
<b>Network</b>	Gigabit-Ethernet, 3D EXTOLL Torus (BNCs) InfiniBand FDR (BICs)
<b>Power consumption</b>	10 kW
<b>Operating system</b>	Linux
<b>Vendor</b>	UniHD/Megware