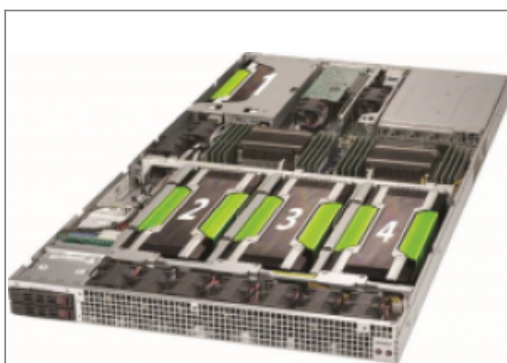


[home](#) → [using the cluster](#) → [liger](#)

## Hardware Specifications

January 2016

- 252 compute nodes
  - [BULLx B720 DLC](#)
  - Two Intel Xeon E5-2680 v3 Haswell CPUs per node
    - 2 x 12 cores, 2.5 GHz
    - Cache L1 = 32k, L2 = 256k, L3 = 30MB
    - Intel Hyperthreading Technology (Simultaneous Multithreading)
    - AVX 2.0 ISA extension
    - 1x HDD 64GB 2.5" 7mm SATA3 SSD
    - 1x port InfiniBand FDR
  - DDR4 RDIMM memory technology (2133 MHz)
    - 252 compute nodes with 128 GiB memory
- 14 visualization nodes, 24 GPUs
  - [BULLx R421-E4](#)
  - Two Intel Xeon E5-2680 v3 Haswell CPUs per node
  - One NVIDIA Tesla K80, 2 x GPUs per node
  - 16 x 16 GiB GDDR5 memory (256GiB) per node
  - 1x ConnectX-3 card single port FDR 56GB PCIe gen3-x8
- 2 Login [BULLx R423-E4i](#) servers with 64 GiB memory per node
- 2 NAS [BULLx R423-E3](#) servers
  - 1 Disk Storage [NetApp E2700](#)
- 3 ESXi VMware [BULLx R423-E4i](#) servers with 128 GiB memory per node
  - 1 Disk Storage [NetApp E2700](#)
- 4 GPFS NSD [BULLx R423-E3](#) servers with 64 GiB memory per node
  - 4 Disk Storage [NetApp E5500](#) + 1 enclosure
- NodeBoards based on DLC (Direct Liquid Cooling) Technology by BULLx
- 8 Mellanox FDR InfiniBand Switches ([SX6036](#)) with non-blocking fat tree topology 3:1
- 6 CISCO Switches ([3750X-24](#))



R421-E4



Blade B720 DLC



NodeBoard 9 twin blades

From:

<https://sourcesup.renater.fr/wiki/ici-sc-help/> - **CNSC User Support**

Permanent link:

<https://sourcesup.renater.fr/wiki/ici-sc-help/supercomputer:liger:cfg:hardware>



Last update: **2016/03/17 09:13**