



UNIVERSITÀ
di **VERONA**

Centro
**PIATTAFORME
TECNOLOGICHE**

Piattaforma Computazionale

Specifiche Hardware

Headnode

1xPowerEdge R430

2x Intel Xeon E5-2609 v4 1.7GHz 8C/8T
16 GB RAM

1xPowerEdge R430 – redundancy (June18)

2x Intel Xeon E5-2609 v4 1.7GHz 8C/8T
16 GB RAM



GPU node

1xPowerEdge R730 (GPU Node)

2x Intel Xeon E5-2650 v4 2.2GHz 12C/24T
192 GB RAM
NVIDIA Tesla K80 GPU (4992 CUDA cores)



Specifiche Hardware (contd)

Nodi di calcolo

1x PowerEdge M630 Blade Server

2x Intel Xeon E5-2637 v4 3.5GHz 4C/8T
512 GB RAM

2x PowerEdge M630 Blade Server

2x Intel Xeon E5-2650 v4 2.2GHz 12C/24T
128 GB RAM

2x PowerEdge M630 Blade Server

2x Intel Xeon E5-2637 v4 3.5GHz 4C/8T
128 GB RAM

1x PowerEdge M630 Blade Server

2x Intel Xeon E5-2650 v4 2.2GHz 12C/24T
512 GB RAM

6x Blade Server (June18)

2x Intel Xeon 2,6 GHz 12C/24T 512GB RAM

Network infranodi:

Mellanox Connect X3 FDR IB / 56Gb Mezz Card
+ Redundancy (June2018)



Specifiche Hardware (contd)

Storage alta *capacità*

2x PowerEdge R430 Server
Power Vault MD3460 4U 60 drives
60 x 8TB 7.2K RPM
Spazio totale disponibile: **400 TB**



Storage alta *velocità*

SCv2080 iSCSI
42x Dell 1.8TB, SAS, 10K, 2.5" (75.6 TB raw)
Spazio totale disponibile: **56 TB**



Specifiche Software

Operating System

Bright cluster from Bright computing
cluster manager integrato



System Software

Slurm

workload manager per la componente HPC
gestione di code
analitiche su utilizzo



Openstack

Cloud privata on-site



Architettura Software

