CCR Computing Resources
Schematic Layout/Diagram

Revised: 2016-05

Dell C6100 Servers (372 total)
2xXeon E5645 2.40GHz 12-cores each
48GB RAM, 2x500GB SATA HD
QDR Infiniband + 1Gb Ethernet

IBM dx360M2 Servers (128 total)
2xXeon L5520 2.26GHz 8-cores each
24GB RAM, 2x160GB SATA HD
QDR Infiniband + 1Gb Ethernet

Dell C6100 Servers (128 total)
2xXeon L5630 2.13GHz 8-cores each
24GB RAM, 2x500GB SATA HD
QDR Infiniband + 1Gb Ethernet

Dell R620 Servers (34 total)
2xXeon E5-2660 2.26GHz 16-cores each
128GB RAM, 2x500GB SATA HD
QDR Infiniband + 1Gb Ethernet

"rush" General Purpose Cluster

Leaf Ethernet Switches
1Gb/node (32-48 nodes)
2x10Gb uplinks to core

2x/leaf

Dell C410x PCIe Expansion
Nvidia Tesla M2050 GPUs (64 total)
Dell C6100 Servers (32 total)
2xXeon X5650 2.66GHz 12-cores each
2x500GB SATA HD, 1x100GB SSD
48GB RAM, QDR Infiniband + 1Gb Ethernet

GPU Cluster

"largemem" Nodes Servers (19 total)
Quantity 1 (Dell R910)
4x Xeon X7650 2.0GHz, 32-cores each
2x500GB SATA HD, 14x100GB SSD
256GB RAM
Quantity 8 (Dell R910)
4x Xeon E7-4830 2.13GHz, 32-cores each
4x1TB SATA HD, 256GB RAM
Quantity 8 (Dell C6145)
4x Opteron 6132HE 2.2GHz, 32-cores each
4x1TB SATA HD, 256GB RAM
Quantity 2 (Dell R910+IBM x3850X5)
4x Xeon E7-4830 2.13GHz, 32-cores each
4x1TB SATA HD, 512GB RAM
QDR Infiniband + 1Gb Ethernet

Large Memory Cluster

Arista 7508
Ethernet Core Switch

→ **1 Gb/s**
→ **10 Gb/s**
→ **40 Gb/s**

Faculty/Research Group Clusters

chemistry/engineering/physics/…

HP S6500 + SL230s Gen8 Servers (216 total)
2xXeon E5-2650v2 2.6GHz 16-cores each
64GB RAM, 1x500GB SATA HD
FDR Infiniband (144/216 nodes)
+ 1Gb Ethernet

Industry Computing Resources

18x

36x

Isilon X410/NL410 Storage Arrays
1PB, /user, /projects

IBM GPFS Parallel Storage
3PB, /gpfs/scratch

General and Project Storage Resources