**192 Node Compute Cluster**
Dual Intel quad-core Nehalem series
nVIDIA double precision GPU
~20 TFlops peak CPU compute capacity
~100 TFlops peak GPU compute capacity
32GB RAM per node

**16 Interactive Login Nodes**
Quad Intel quad-core Nehalem series
8 nodes with nVIDIA double precision GPU
8 nodes with PCI-E FPGA cards
Solid-state and SAS high performance drives
32GB RAM per node

**28 Node Cell Blade Cluster**
Two fully-populated IBM BladeCenter H chassis
Dual Cell broadband engines
32GB RAM per blade
~12 Tflops peak compute capacity

**Infiniband Interconnect**
288-port quad data rate Infiniband network

**Parallel File System**
24 File servers
48 Disk enclosures
1 Petabyte Storage

**Large SMP / Visualization**
SGI Altix for single active stereo image
8 Graphics workstations for tile display

**Projection Hardware**
Data wall (9' x 12')
Single stereo 4 megapixel image with tracking
or 16 tiled images, 20 megapixels aggregate

TeraGrid

Existing RCC Infrastructure

10 Gigabits/sec

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