

## (Department Equipment Summary at Temple University)

- **Hybrid GPU/CPU Cloud Computing Platform**

- 72 12-core xeon nodes with 12GB RAM
- 6 8-core xeon nodes with 96GB RAM
- 6 48-core opteron nodes w 64GB RAM
- 12 GPU nodes with 4x Tesla C2050
- 108-ports switch w 6 leaves + 3-year service
- 108 infiniband cards and cables
- 4 storage nodes 30TB each
- Racks, incidentals + infrastructure



Figure 1: TCloud Hybrid GPU/CPU Cloud Platform

- **SGI Altix 3000 Series Computer**

- 32 Processors, 32 GB
- 2 Terabytes of Memory
- NUMA Interconnect

- **IBM HS20 Cluster (10 Nodes)**

- $2 \times 2.4$  Ghz CPUs/Node, 2 GB Memory/Node
- Gigabit Ethernet Interconnect

- **Sun X2200 (3 Nodes)**

- 8 GB Memory,  $2 \times 250$  GB SATA Hard Drive
- $2 \times 2.0$  Ghz AMD Opteron CPUs

- **Dell PowerEdge 2950 (1 Node)**

- 4 GB Memory,  $6 \times 143$  GB Hard Drive
- $2 \times 3.0$  Ghz Dual-Core CPUs

- **Dell PowerEdge 1950** (5 Nodes)
  - 4 GB Memory, 3 × 143 GB Hard Drive
  - 2 × 3.0 Ghz Dual-Core CPUs
- **Dell PowerEdge 2850** (4 Nodes)
  - 4 GB Memory, 2 × 73 GB Hard Drive
  - 2 × 2.4 Ghz Dual-Core CPUs
- **Citrix Cluster**
  - 2 × Dell PE 1950 - 2 × 3 Ghz CPU, 8 GB, 3 × 143 GB Hard Drive
  - 2 × Dell SC 1435 - 2 × 3 Ghz CPU, 4 GB, 2 × 73 GB Hard Drive
  - 1 × Dell PE 2950 - 2 × 3 Ghz CPU, 8 GB, 6 × 143 GB Hard Drive
- **Storage & Backup**
  - Netapp F240c Cluster Storage Server; 4 Terabytes
  - Promise VTRACK 15100 SCSI Storage; 4 Terabytes
  - Sun SE3300 SCSI Storage; 2 Terabytes
  - Dell PowerVault TL2000 Tape Backup