



ATLAS Southwest Tier 2

Phase I Status at UTA

ATLAS Southwest Tier 2

- Collaboration of UTA, OU, and LU
- PI is Dr. Kaushik De (kaushik@uta.edu)
- Other Tier 2 facilities provided by:
 - Northeast Tier2 (BU and Harvard)
 - Midwest Tier2 (Univ. of Chicago and Indiana)
- Additional facilities are expected to selected

ATLAS Tier 2 Phase I

- 175 Machine Dell cluster
 - 160 Compute nodes
 - Dual Xeon EM64T 3.2 GHz processors
 - 4GB RAM
 - 160GB SATA disk
 - 8 Front-end machines
 - Dual Xeon EM64T 3.2GHz processors
 - 8GB RAM
 - 2x73GB SCSI disks (RAID1)
 - 7 File servers
 - Same as compute nodes
 - FC-HBA

ATLAS Tier 2 Phase I (cont.)

- 20 TB storage
 - DataDirect Networks S2A3000 Couplet
 - 82 x 250GB SATA drives
 - 16TB useable
- Management network
 - Job Scheduling, Monitoring
- Data network
 - Stacked Nortel 5510 switches
 - 40 Gb/s switching capacity

Tier 2 Infrastructure

- UTA Computing Center (UTACC) houses Phase I
- Off-site facility houses campus and enterprise computing systems
- 24 x7 Operator support
- Generator backed power
- Redundant network links to campus

Commissioning Status

- Initial Rocks deployment (v3.3) performed
- Installation of other nodes in progress
- Lessons learned will help when reinstalling Rocks
- Yet to do:
 - Install IBRX filesystem
 - Choose batch system
 - Install OSG software stack