Southwest Tier 2 (UTA)

Current Inventory

- Dedidcated Resources
 - UTA_SWT2
 - 320 cores 2GB/core Xeon EM64T (3.2GHz)
 - Several Headnodes
 - 20TB/16TB in IBRIX/DDN
 - UTA_CPB (name is TBD)
 - 200 Cores 2GB/core Opteron 2216
 - 3 head nodes
 - 75TB/65TB in Dell 10xMD1000+8xDell PE1950

Current Inventory

- UTA_DPCC
 - 64 Xeon 2.4GHz + 100 Xeon 2.66GHz-1GB/core
 - Atlas usage ~80 Cores
 - Nominally 45TB in 10 ASA Raid systems
 - Realistically using 9TB

Near Term (FY07)

- Addtion to UTA_CPB
 - 400 Cores Opteron 2220 2GB/core
 - □ 210 TB/~180TB Dell MD1000 + 7 PE2970
- FY 2008 is TBD

Storage Infrastructure

UTA_SWT2

- 16TB usable from 20TB raw
- Single FS via IBRIX
- Access via gsiftp to one gatekeeper
- Will explore OSG supplied SRM 2 via BestMan

UTA_CPB

- 65TB usable from 75TB raw
- XRootD based storage
- Access via gsiftp to one gatekeeper
- Expect to use SRM 2 via BestMan
- Testing has shown ~300MB/s write locally ~ 100MB/s from Head node via xrdcp

Software Infrastructure

- UTA_SWT2
 - Platform Rocks 3.3 (RHEL3 64bit)
 - Will Move to Rocks 4.3 + SL4.5 (X86_64) when UTA_CPB is stable
 - Will require Ibrix update for kernel version
- UTA_CPB
 - Rocks 4.3 + SL 4.5 (X86_64)
 - Basic installation done

Networking

- UTA-SWT2 Off-campus location
 - 1Gb/s GigaMAN to UTA-CPB
- UTA-CPB
 - 1Gb/s GigaMAN to North Texas Gigapop
- UTA-DPCC buried in Campus network (100Mb/s)
- NTG to LEARN
 - 1Gb/s from UTD to S. Akard
- LEARN peers with NewNet in Houston at 1GB/s
- IPERF Testing shows
 - ~ 500Mb/s from BNL
 - Significantly Lower to BNL (Still researching)

Analysis Queues

- UTA-DPCC Works with AutoPilot
- UTA-SWT2 will be problematic until Rocks
 4.3
- UTA-CPB shouldn't be a problem

Analysis Dedication

- UTA_SWT2, UTA_CPB
 - Ideally 5% reserved for immediate access
 - Grows to 20% of total capacity
- UTA_DPCC
 - Moves to prototype Tier3 resource
 - 100% User Analysis

Middleware

- UTA-SWT2 partially converted OSG 0.8
 - Waiting on Gratia/APEL to be stable
- UTA-CPB will start at OSG 0.8
- UTA-DPCC will upgrade to OSG 0.8 after UTA-CPB is stable

Supporting Local Users

- No support for ATLAS dedicated resources
- UTA-DPCC will become Tier3 resource for UTA