ATLAS Computing @ RZG

Status

Stefan Kluth, 05.12.05

Operation: hardware

- Repeated disk failures in fileservers

  - more than 25% (Maxtor 7Y250M)

- Suppliers investigated the problem

  - 12 new disks on loan in mpp-fs4 (ATLAS)

  - 2 disks died (firmware problem, not heat!)

- 12 Seagate 250 GB "24x7" disks ordered

  - put into fileserver to test different brand

- Now have complete exchange of disks

  - MaxLine III 300 GB disks shipments received

Hardware: new file servers

- Need to increase disk capacity
  - pledge 20 TB to WLCG for 2006
- RZG Technology for now
  - SATA RAID (16 x 500 GB) with headnodes
    - cost 11,2 k€ / 8 TB today
  - schedule for middle 2006 (MAGIC buys now)
- new 300 GB disks give some relief
  - out-of-service server comes back
  - ca. 20% capacity gain

LCG @ MPI/RZG

- Basic installation ready
  - Thanks to Ariel, Alberto and Denis!
  - interface LCG ↔ SGE + afs
  - CHEP 2006 contribution accepted
- Tests with MAGIC and ATLAS successful
  - jobs submitted by hand using "edg-job-submit"
- Installed servers at RZG
- For ATLAS do site qualification now

Munich ATLAS Tier-2/3

- Collaboration of MPI/RZG/LMU/LRZ
  - build and operate one average ATLAS Tier-2
  - add 0.5 of Tier-2 as Tier-3 in same system
  - physically at RZG and LRZ in Garching
  - Logically one federation (Munich Tier-2)

- MOU in preparation
  - plan to sign this year
  - MPI/ATLAS signs WLCG MOU
  - LMU/ATLAS needs BMBF for WLCG MOU

Local Procurement

- Procurement through four accounts?
  - little planning
  - heterogeneous infrastructure
  - double (or no) purchases
- Should go via ATLAS Computing
  - have a chance to plan and coordinate
  - save money medium term
  - less work for admins

Summary

- Hard disk failures resolved

  - 12 MaxLine III failures: no heat problem

  - full exchange of Maxtor disks

  - 12 Seagate disks will confirm

- LCG@RZG basic install ready

  - site qualification now

- Planning for Munich Tier-2 centre

  - MOU MPI/RZG/LMU/LRZ prepared