ATLAS Computing Status at MPP and RZG

MPI ATLAS Meeting
26-Nov-2007

Stefan Stonjek

Grid @ RZG

- ATLAS software for Grid jobs (CE: OK)
  - 12.0.6 and 13.0.30 installed and validated
  - Python version problem
  - Fortran path length problem

- Storage element / SRM (SE: ~80% OK)
  - Manual data transfers are possible
  - Automatic transfers (FTS) have authentication problems

New hardware @ RZG 2007

- CPU
  - 7 IBM BladeCenter
    - 14 HS21 dual quad core Xeon 5345
      - 2,33 GHz, 16 GB RAM
  - 3 at RZG (summer), 4 on order (KW 49/50)
- Disk (ca. 250 TB netto)
  - 14 Intel SSR212MC2 servers + JBOD
      - JBOD: Just a Bunch Of Disks, concatenated disks
    - (12 + 16   750 GB SATA disks),
    - Dual Xeon 5310, 4 GB RAM, hardware RAID
  - 10 GbE LAN (CX4 (copper))
  - on order, 2-3 weeks

new LAN @ RZG

- Grid cluster switch
  - hp 5412zl modular switch
  - 10 Gb/s (CX4) and 1 Gb/s modules
  - new BladeCenter and Intel fileservers with 10 Gb/s uplink <u>each</u>

- 10 Gb/s LAN to central RZG router
  - hp and Cisco optical modules ordered
  - LRZ 10 Gb/s connection as well

Funding @ RZG 2007

- ATLAS Computing (MPP)
  - 185 kEuro: fileserver, LAN, power bill
- BAR (MPG central funds)
  - 400 kEuro: 3 BladeCenter (summer), fileserver, LAN, shared within MPP
- D-Grid (BMBF government funds)
  - 200 kEuro: 4 BladeCenter, shared within MPP
  - need to install D-Grid VOs

Personnel @ RZG

- ## New Tier-2 support at RZG
  - Jose Mejia
    - funded by MPG via MPP, works at RZG since 01-Nov-2007
- ## Other RZG people
  - Renate Dohmen (LCG)
  - Christian Guggenberger (cluster, dCache)
  - Karl Lehnberger (dCache)
  - Hartmut Reuter (afs)

- ## <u>always contact support@rzg.mpg.de!</u>

New Software trends @ ATLAS (1)

- ATLAS sw version: 13.X

- Analysis data access via DPD
  - skimmed, slimmed, thinned AODs + user data

- AROOTA / ARA (Athena Root Access)
  - Ask Sven Menke for details

- XROOTD / PROOF
  - Tests at LMU

- PyROOT
  - Much faster than cint

New Software trends @ ATLAS (2)

- Evo for video conferences
  - New VRVS
- More video conferences

Misc.

- Interesting new functionality in ROOT
  - E.g. fit panel
  - From 5.18 (Dec-2007)

- MPP
  - New desktop OS (Debian Etch (4))
  - 10 new Dell machines