

# ATLAS Computing @ RZG and MPP

## Status

Stefan Kluth, 26.05.08

# New hardware at RZG 2008

- CPU
  - 4 IBM BladeCenter, 14 HS21 dual quad core Xeon 5345 2,33 GHz, 16 GB RAM
  - in service end May (power limitations)
- Disk (ca. 250 TB netto)
  - 14 Intel SSR212MC2 servers + JBOD (12+16 750 GB SATA disks), 4 GB RAM, 2 Xeon 5310, hardware RAID, 10 GbE LAN
  - in production!

# Status of LCG/glite@RZG

- CE
  - ok, but still on SL3
  - installed as virtual servers on new hardware
  - in production after new SE
- SE
  - separate monbox and new SE
  - installed virtual servers on new hardware
  - new SE will support SRM 2.2
  - in production this week

# Grid environment at RZG

- Use grid-ui
  - interactive or “ssh grid-ui <command>”
- Submit jobs “on grid”
  - edg-job-submit
  - ganga on grid-ui!
- Source script (site-specific)
  - not the one from CERN! Please!
  - available for debugging at RZG

# Data/job management

- Data registered “on grid” preferred
  - produce dpds/ntuples “on grid”, store output using LRZ or RZG SE
- Local “root analysis”
  - use LFC to locate files, open with “dcap://”
- Can use LRZ dCache (and vice versa)
  - use LRZ and RZG for jobs “on grid”!

# Available resources Tier-2/3

- ATLAS planning for 2007
  - i.e. available in 2008
  - CPU 420 kSI2k, storage 100 TB
  - before LHC rescheduling
- ATLAS resources 5/2008
  - installed end 2007 and early 2008
  - CPU 900 kSI2k, storage 125 TB
  - additional resources from BAR (400 kEuro) and D-Grid (200 kEuro)

# Planning for 2008/9

- Original budget
  - storage 150 TB, no CPU
- Revised after new requests (HEC, MDT)
  - single  $\pi$  MC with revised G4 physics lists etc. for local hadron calibration, mix of grid and local production ( $\sim 100$  kSI2k, 10 TB)
  - new speed measurements of MDT calibration, new storage model, alignment (130  $\rightarrow$  280 kSI2k, 5  $\rightarrow$  30 TB)
- New BC and 4 file servers now?

# Planning for 2008/9 cnt'd

- Next BAR 26.06.2008
  - prepare application now
  - ATLAS, (S)BELLE, ILC, GERDA, MAGIC, theory, ...
  - new hardware by autumn '08, in production end '08 or early '09
- Need stable system this summer!



# OS upgrade at RZG

- Need to upgrade SLES9 → SLES10
  - release 14 (slc4, gcc-346) hard on SLES9
  - local installations 14.0.0 and 14.1.0
- Smooth transition plan
  - Install 4 new BCs with SLES10
  - port grid applications, test local codes
  - upgrade existing systems