

# ATLAS Computing @ RZG and MPP

## Status

Stefan Kluth, 23.06.08

# New hardware at RZG 2008

- CPU
  - 4 IBM BladeCenter, 14 HS21 dual quad core Xeon 5345 2,33 GHz, 16 GB RAM
  - in service, SLES10, test on dt01
- 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**
  - installed as virtual servers on new hardware
  - in production after new SE
- **SE**
  - separate monbox and new SE
  - installed virtual servers on new hardware
  - supports SRM 2.2 and dq2
  - in production !

# Data/job management

- Data registered “on grid” preferred
  - produce dpds/ntuples “on grid”, store output using RZG SE (or LRZ SE)
  - use ganga (or edg-job-submit)
  - dq2\_get unavailable soon (for normal users)
- Local (py)root analysis
  - use LFC to locate files, open with “dcap://”
  - use dq2 python API in pyroot analysis scripts

# Planning for 2008/9 cnt'd

- Next BAR 26.06.2008
  - application submitted
  - ATLAS, MAGIC, theory, (S)BELLE, ILC, GERDA, ...
  - new hardware by autumn '08, in production end '08 or early '09
  - some storage (4 Servers, 72 TB) earlier
- Need stable system this summer!

# BAR Application 08

	kSI2k	TB
Analysis (30 users a 10 cores)	660	45
Simulation (20 users, $O(10^5)$ full sim or $O(10^6)$ fast sim)	330	10
MCAC (440 cores)	968	40
HEC single- $\pi$	100	10
$\Sigma$ (Tier-3)	2058	105
Tier-3 available	370	50
Tier-2 (pledges for 2009)	529	265
Tier-2 available	740	80
Request Tier-3	1688	55
Request Tier-2	-	185

# OS upgrade at RZG

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