

ATLAS Computing @ RZG

Status

Stefan Kluth, 13.03.06

RZG Status

- Hardware
 - new Maxtor MaxLine III 300 GB disks
 - two broken disks so far ...
 - one fileserver broken, returned for repair
- Software
 - OS Suse SLES 9
- Operation
 - dedicated interactive node: s01
 - dedicated short queues on s01
 - still intermittent afs problems

LCG @ MPI/RZG

- Basic installation ready
 - Thanks to Ariel, Alberto and Denis!
 - interface LCG \leftrightarrow SGE + afs
 - CHEP 2006 poster
- For ATLAS need site qualification now
 - ongoing work
 - Sven Hermann and Ariel (FZK), Alberto (RZG), SK

CHEP 06

poster



Forschungszentrum Karlsruhe
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Integration of an AFS-based Sun Grid Engine site in a LCG grid

Objective:

Integration of existing Linux Cluster with

- SUSE Linux
- Sun Grid Engine batch system
- AFS File System
- operated by a Computing Center

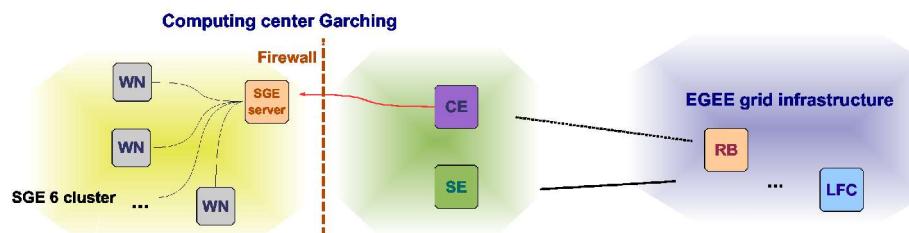
in the EGEE/LCG infrastructure

Problems:

- LCG supports only Torque/PBS, LSF, Condor
- The computing center does not change its standard tools
- Integration of two security frameworks
 - GSI
 - Kerberos

Approach:

- use Globus2 SGE-jobmanager & infoprovider developed by The London e-Science Centre*
- adapt it for AFS and LCG-2.6



- Existing cluster
- New users added (poolaccounts)
- CE authorized as SGE client
- No need to deploy software in the WNs:
 - middleware in AFS, relocatable tarball installation of LCG 2.6.0

- Can be remote location
- Secure connection
- Acts as LCG gateway to cluster
- Poolaccounts get KRB5 tokens via keyfiles

Extra fixes:

- JobManager needs "use latest 'access';"
(Globus does not know about ACLs)
- Fix for job_script_name in SGE jobmanager
- Force bash usage in SGE wrapper scripts, source grid_env.sh
- Fix quoting in globus-job-manager.conf

* <http://www.lesc.ic.ac.uk/projects/SQE-LCG.html>

Conclusions:

- restriction to SciLinux prevents LCG dissemination
- presented approach circumvents this obstacle
- SGE-AFS clusters can be integrated within the LCG Grid



GOC DB

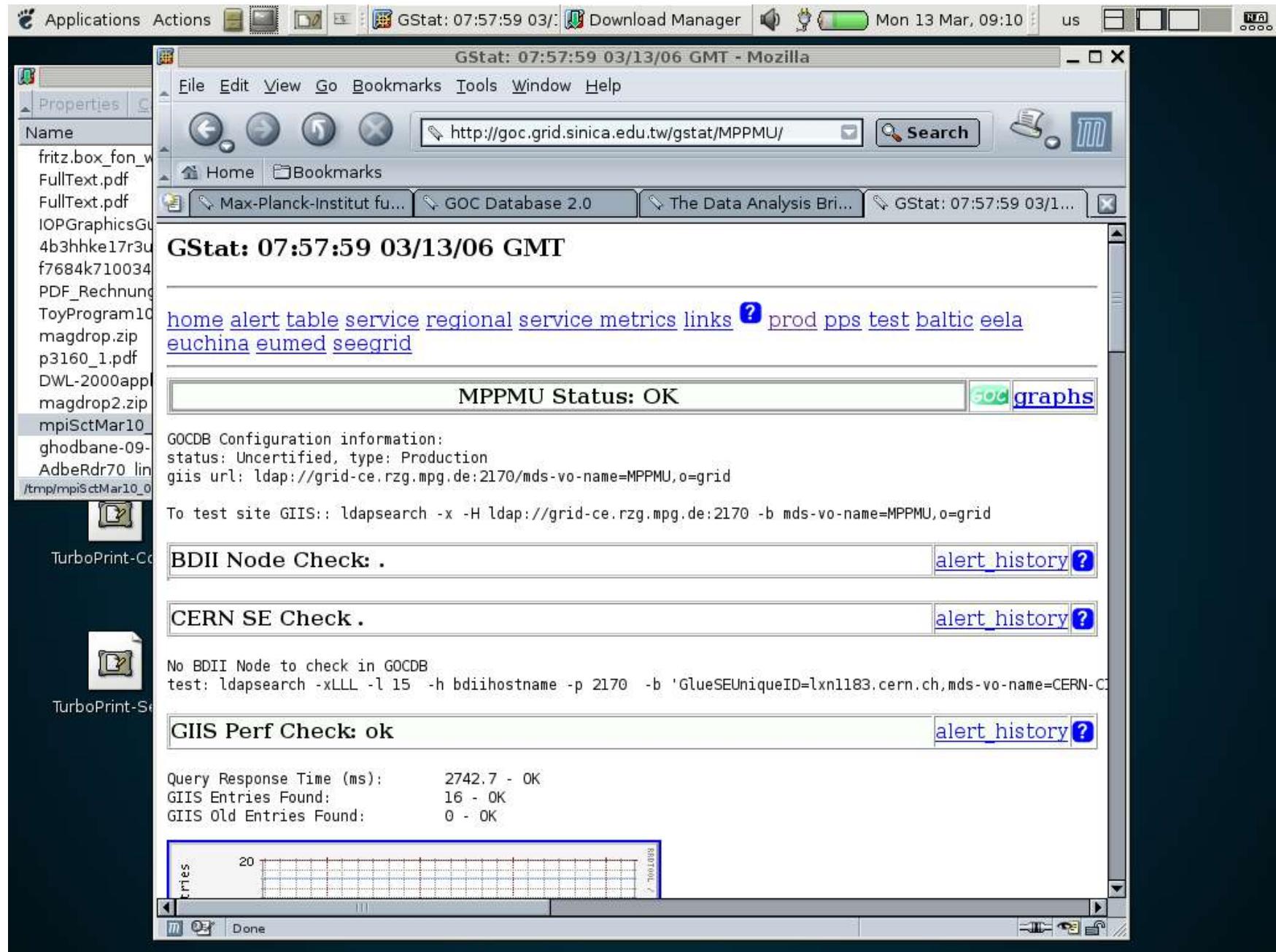
The screenshot shows a Linux desktop environment with a dark blue/black theme. A Mozilla Firefox browser window is open, titled "GOC Database 2.0 - Mozilla". The address bar shows the URL <https://goc.grid-support.ac.uk/gridsite/gocdb2/index.html>. The main content area displays information for the "MPPMU" site, including:

Attribute	Value
Status:	Uncertified
Type:	Production
ROC:	Germany/Switzerland
Site local time (CET):	09:05 (13/03/06)
Official Name:	Rechenzentrum der Max-Planck-Gesellschaft am Max-Planck-Institut für Plasmaphysik
Map Name:	MPI-RZG
Institution / Department Homepage:	www.rzg.mpg.de
Site email:	kg-support@rzg.mpg.de or alberto.baragatti@rzg.mpg.de
Site telephone:	+49 89 32354 468 or +49 89 3299 1366
Emergency telephone:	+49 89 3299 2176
CSIRT email:	kg-security@rzg.mpg.de
CSIRT telephone:	+49 89 3299 2175
Operational hours:	9:00 - 17:00 (CET)
GIIS URL:	ldap://grid-ce.rzg.mpg.de:2170/nds-vo-name=MPPMU,o=grid
Organisation:	LCG2

At the bottom left of the browser window, there is a button labeled "MONITORING: ON" with a green checkmark icon. To the right of this button is a link "Edit site information".

The desktop background shows icons for "Properties", "TurboPrint-C", and "TurboPrint-S". The top panel of the desktop includes standard icons for Applications, Actions, and system status.

GOC monitoring



Site Functional Tests

Applications Actions Site Functional Tests Download Manager Mon 13 Mar, 09:14 us

Site Functional Tests report - Mozilla

File Edit View Go Bookmarks Tools Window Help

https://lcg-sft.cern.ch/sft/sitehistory.cgi?site=grid-ce.rzg.mpg.de Search

Home Bookmarks Max-Planck-Institut ... GOC Database 2.0 SPIEGEL ONLINE - N... GStat: 07:57:59 03/... Site Functional Test...

Colours definition

SD	Scheduled downtime	#a3a3a3
JL	Job list match failed	#aab3ff
JS	Job submission failed	#f4876b
CT	Critical tests failed	#f9d48e
NT	Non-critical tests failed	#f2f98e
OK	OK	#b2f98e

VO dteam																		
Test date	St.	is	ver	wn	ca	rgma	bi	csh	rm	votag	swdir	rgmasc	Ifcrm	lfccr	lfccp	lfcrep	lfcdel	
2006-03-02 17:36:04	CT	O	2_6_0	I	O	X	O	O	X	W	X	X	??	X	X	X	X	??
2006-03-02 16:30:35	CT	O	2_6_0	I	O	X	O	O	X	W	X	X	??	X	X	X	X	??
2006-03-01 20:19:49	OK	O	??	??	??	??	??	??	??	??	??	??	??	??	??	??	??	??
2006-02-28 08:34:57	JS	X	??	??	??	??	??	??	??	??	??	??	??	??	??	??	??	??
2006-02-28 07:51:46	JS	X	??	??	??	??	??	??	??	??	??	??	??	??	??	??	??	??

Rows displayed: 5