Naf User Committee
May 2010.

Report from Operation

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On behalf of the Naf Operators
May 12, 2010

HELMHOLTZ
| GEMEINSCHAFT

DESY

Action Items

AFS scratch

- > Default is 2GB
- > Automatic creation for new accounts is enabled
- > Mount point is /scratch
- > New afs file server are really now ordered to reduce overcommitment,
  - Goal is to have 10GB per user available

SGE user priorities

- > Functional model:
  - Creation of subgroups of the experiments by the exp. admins
  - add/remove users to the subgroups to change their priority
  - Operators give priority of these subgroups according to requests
  - The subgroups exist automatically as projects in SGE
  - Example parameter: -P ilc-high
- > There is no possibility of any hierarchical administration

Action Items

Documentation

> Web documentation in constant growth
> Twitter works well enough for NAF operators
  - especially the RSS Feed is a nice feature
> Mailing lists should cover the rest, especially experiment specific information
> General Desy problems reported by UCO will be sent to NAF announce from now on
> Of course now we need to fill the information to the different media

Deletion model for /scratch

> Needed Information: is mtime as deletion parameter OK?
  - is changed by bit changes and touch on mdt
> atime would add too much load to the mdt and oss of lustre which is not a good solution

Action Items

multicore batch job monitoring

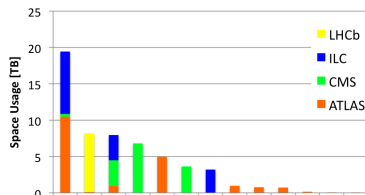> Not on agenda, no concrete idea how to do this now

New Action Item from Operators
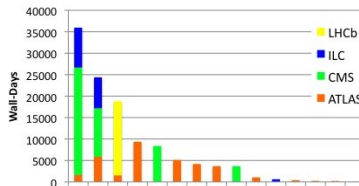
> SL5.5 beta installed on tcx01f
> Please test it

Usage of Lustre and CPU Resources by Institute

NAF Lustre utilization (15.4.2010)

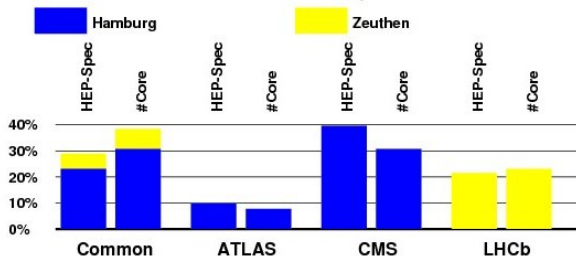**NAF CPU utilization 15.10.09-15.4.10**

> Lustre Usage by Institute

> CPU usage by Institute

Overview of CPU Resources in the NAF

CPU resources in the NAF after recent purchases (15.4.2010)

Common: NAF budget: 50% ATLAS, 25% CMS, each 12.5% ILC and LHCb Fair-Share contribution
ATLAS: DESY ATLAS group: 100% ATLAS Fair-Share contrib.
CMS: Uni Hamburg CMS group: 100% CMS Fair-Share contrib., close connection to DESY-HH SE
LHCb: DESY-LHCb Anschubfinanzierung. 100% LHCb Fair-Share contrib., close connection to DESY-ZN SE

Problems

One User killed half of the NAF

> First Network problems seen for afs, then for lustre
> Atlas interactive nodes died (probably because of lustre)
> User send 600 jobs into empty farm and opened several thousand files with each job...
> Finally not fully understood

Several Interactive Nodes reboots

> Mostly due to lustre and hardware problems

Several Hardware Problems

> The usual disk, memory, mainboard exchange
> tcx044 under investigation

NAF RT

Lustre as problem

> tcx128, tcx080
> Login not possible for Atlas
> /scratch not available

SGE

> not comma separated parameter list
> transparent reboot of WN to update lustre client
> Monitoring for second account enabled

Software request

> ctags
> Ganga JEM

NAF RT cc.

General Questions

> Autoproxy renewal error message
> Batch monitoring
> cms sw-project increased