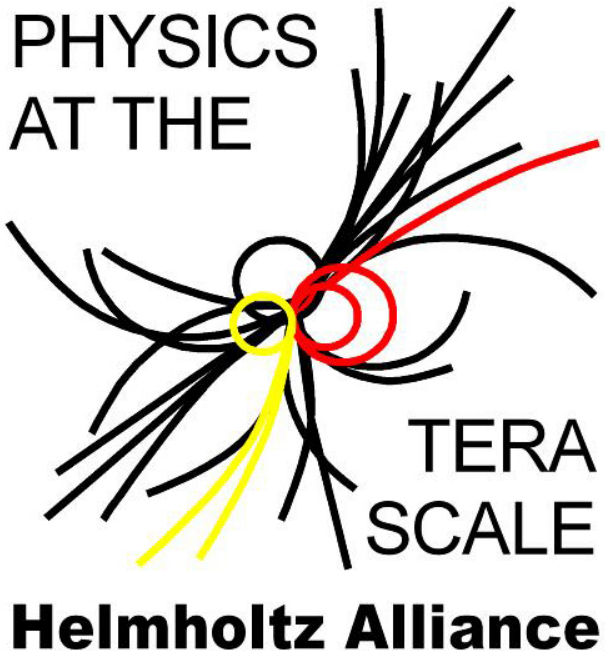
NAF Status Report



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NUC, 8.5.2013

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DESY

Problem reports last month

- Queue setup NAF 1.0
  - User reporting jobs will not start – transient problem reported by user
- /tmp problem of one user
  - This time other users reported to misbehaving user directly who killed jobs
- NAF 2.0 testing
  - Missing RPM
  - Question on Sonas space
- Slow Sonas reading
  - Not reproducible, no indication in log files
- (Mis)use of WGS by one user
  - Too many processes, affecting other users
- Sonas monitoring for Belle @ NAF2.0
  - … will come

Lustre in Hamburg

- Announcement to users

- “1.8.2013 - at which time we will mount the Lustre systems read-only.”
- “We will switch off Lustre on 1.10.2013, and start decommissioning of the Lustre server and storage nodes.”

Action items

- 1210-2 NAF 2.0 offer better monitoring for queue usage (per user, waiting time, run time, etc)
  - Working in general on monitoring for SGE batch system
  - Nothing ready to show now – but what you have now will be there in future (as a minimum) 1210-3 NAF 2.0 & experiments reconsider queue setup, scheduling, dynamic or configurable queue limits
- 1302-1 NAF admins prepare documentation for NAF 2.0 accounts and migration
  - … still on the ToDo list …
- 1302-2 NAF admins clearly document what scratch space means and policy for Lustre and SONAS
  - … still on the ToDo list …

Information on ini / SL5

- All modules available on NAF 1.0 will be made available on NAF 2.0
  - Still this week

- (Historical) problem with ini in non-login shells (e.g. batch jobs)
  - Alias ini not available
  - Should be solved now – if not: Please report

Information on module for SL6: An example

```
nafhh-sl6tst::~>root
-bash: root: command not found
nafhh-sl6tst::~>module avail

------------------------ /usr/share/Modules/modulefiles ------------------------
dot         module-cvs  module-info modules     null        use.own

------------------------------ /etc/modulefiles ------------------------------
idl/8.0         maple/14        mathematica/8.0 pgi/2011
idl/8.1         maple/15        mathematica/9.0 pgi/2012
idl/8.2         maple/16        matlab/R2010b   pgi/2013
intel/2011      maple/17        matlab/R2011a   root/5.32.00
intel/2013      mathematica/5.2 matlab/R2011b   root/5.34.00
intel.2011      mathematica/6.0 matlab/R2012a   texlive/2008
intel.2013      mathematica/7.0 matlab/R2012b   texlive/2011
nafhh-sl6tst::~>module load root
nafhh-sl6tst::~>root
…
 *   Version   5.34/04   10 January 2013   *
...
root [0]
```

AFS and NAF 2.0

- Administration tools for NAF 2.0
  - Currently, AFS cell DESY.DE being modernized
  - New server version, new hardware, …
  - New plattform adapter (the glue between the DESY Registry and AFS)
  - In this context administrative tools will come
- “Scratch-like” volumes
  - We have the space for O(10GB/user) volumes
  - We have in place the possibility to create XXL volumes
  - Investigating automatism for automatic creation of volumes

```
nafhh-sl6tst::xxl>fs lq
Volume Name                    Quota       Used %Used   Partition
xxl.kemp                     8000000    5488115   69%         78%
nafhh-sl6tst::xxl>pwd
/afs/desy.de/user/k/kemp/xxl
```