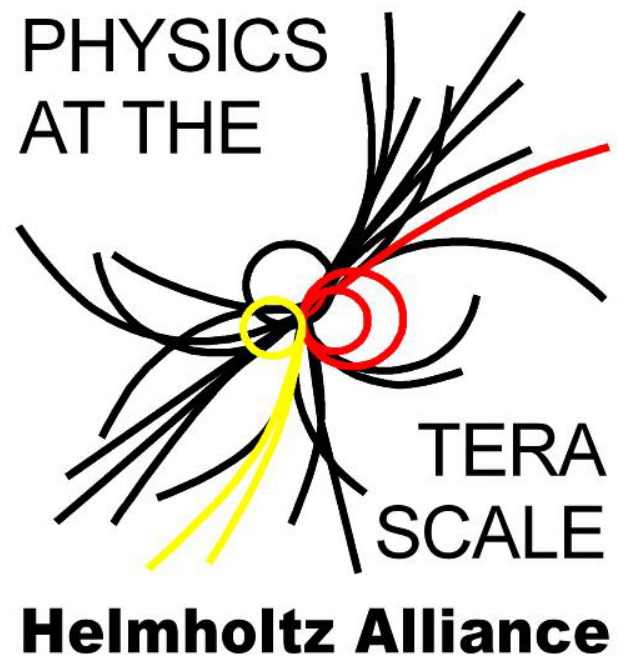


## NAF Status Report



[Andreas Haupt](#), [Yves Kemp](#)  
NUC, 11.12.2013

# Problems last month

- > NAF 1.0: One user requesting 15 GB RAM per job
- > SGE reserves the RAM – resulting in ~950 jobs on ~1600 cores
  - Users observing “low job throughput” or similar, suspecting malfunctioning
- > Lessons:
  - Users should control their RAM usage (~8 GB effectively needed)
  - Can happen again at any time
  - #cores is not the only metric how to measure the size/performance of a cluster



# Problems last month

- > CVMFS
- > Problem at CERN, affected ATLAS and CMS clients on NAF 1.0 and NAF 2.0
- > Reload helped
- > Only native CVMFS clients seemed to have been affected
- > On other occasion, one CVMFS-over-NFS was troubled – wrong (old) file was served
- > Needed a hard remount of another server
- > CVMFS seems easy, but problems have a much wider impact when they occur



## Problems last month

- > NAF 1.0: Login VM troubled
- > Running currently with one login VM per experiment
- > Sometimes memory limits are hit – connections unstable



## Problems last month

- > NAF 1.0: Login from Ubuntu Laptop to NAF 1.0 not working
- > Problem: Grid-UI not supported on NAF 1.0
- > Solution: Either pass through DESY-PAL or
- > Move to NAF 2.0



## Problems last month

- > /nfs/dust/... not visible
- > We use the automounter for mounting
- > “Tab”bing to the directory will not work – you must explicitly access the directory or files in it



## Problems last month

- > NAF 2.0: ILC WGS unresponsive – needed reboot because of memory leak by one user
- > Reboot
- > Deployed configuration to help the OOM killer in such circumstances to earlier kill the process running wild
- > NAF 2.0: CMS WGS unresponsive – configuration process running wild, filling /tmp completely, no login possible



# Monte Carlo School

- > Monte Carlo school in Munich hosted on NAF 2.0
- > ~90 generic school accounts
- > AFS group directory
- > 5 WGS for interactive login
- > Worked well
- > Easy setup
- > NAF 2.0 much better suited for schools than NAF 1.0
- > If you plan schools/tutorials/workshops – contact us!



## Belle:

- > BELLE reading data via NFS v4.1 from dCache since some months
- > Since 3.12. dCache is mounted on BIRD/NAF 2.0 on all SL6 nodes
- > No disturbances of batch nodes or dCache server observed
- > However, not all jobs ran through
  - Under investigation
  - Could also be application “feature”
- > ... but first real-world large-scale user analysis is promising



- > Discontinue support in NAF 1.0 on Zeuthen site with end 2013
  - WGS, Compute-Farm, Lustre, dCache to be shut down
- > LHCb to use NAF 2.0 in Hamburg
- > Starting with SL6 WGS in Hamburg and batch (since yesterday)
- > Storage setup currently under discussion
- > Grid in DESY-HH basically also ready for LHCb. Eventually start with Zeuthen-dCache as default SE for some transition period?

## NAF 2.0 batch monitoring

- > Have been testing Splunk – will drop this option
- > Currently investigating Logstash/ElasticSearch/Kibana
- > No fast result though
- > Use <http://bird.desy.de/status/> in the meantime



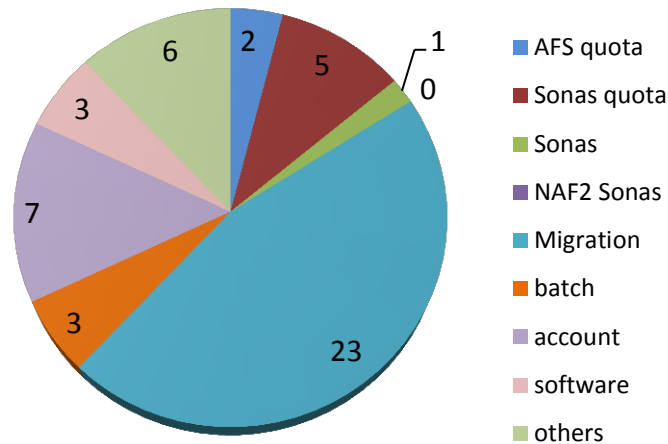
# WN batch migration

- > Stick to plan presented in last NUC
- > ... have not yet started migrating the “december bunch” ... will start on Friday



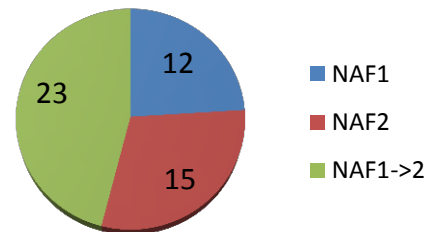
# [Naf-helpdesk@desy.de](mailto:Naf-helpdesk@desy.de) (Nov 1<sup>st</sup>- Nov 30<sup>th</sup> 2013)

Category of Requests

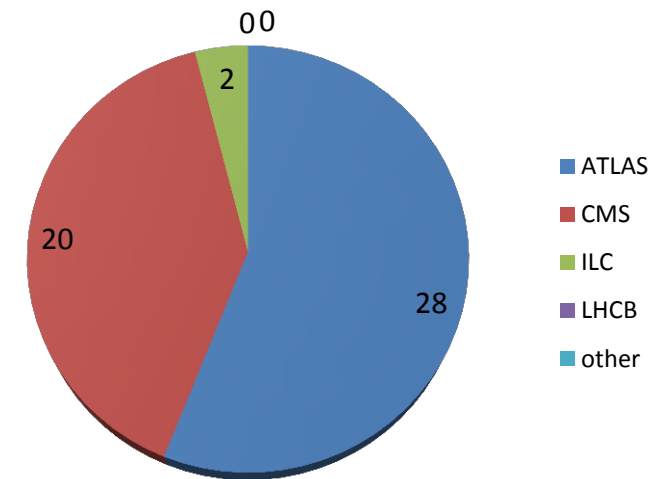


50 tickets in total

Many Accounts migrated  
NAF1 -> NAF2



Requests by Experiment



Date/Category of Requests

