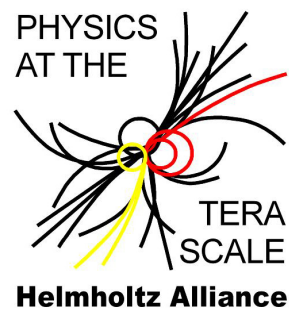


# NAF Status Report 2012

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NUC, 14.11.2012



# Problems since last NUC \_ 1

- > Some users report AFS access problems (“cp: cannot open ... Permission denied”)
  - Suspect arcx server to be bottleneck for large array jobs. Still under investigation
- > Users report jobs not starting while slots are free / waiting forever while other jobs get in
  - All reports could be nailed down to large resource requests (h\_vmem=5 GB or 6 GB)
  - Natural that SGE prefers other jobs or even cannot schedule these jobs
  - Lowering requests helps
- > Empty Sonas files observed
  - Unclear, still under investigation. Very large output files (~20 Gbyte) might be the cause
- > Some Sonas (and Lustre) mounts disappeared
  - Automounter on some nodes not working properly. Restart helped.



## Problems since last NUC \_ 2

- > 30.10. 16:00-~22:00: NAF troubled due to failures in central DESY SAN infrastructure
  - NAF AFS not directly involved, but several SW products located on DESY AFS were not available, e.g. Grid UI.
  - Login \*from\* DESY machines of course also troubled, as was the whole DESY infrastructure
- > “Memory issues” on ATLAS WGS
  - Symptom: “ini glite” fails because java cannot allocate enough memory
  - “Reason”: Maybe you recall the slow ATLAS WGS at the beginning of the year. We fixed this by disabling memory overcommitment on the WGS.
  - Either: The WGS gets sloooow because of heavy swapping
  - Or: ini NNN does not work because of memory issues
- > Qstat output: Reverted back changes made because of “qstat abuse” now solved



# NAF 2.0 Status

## > HH

- WGS installed, and opened to some DESY users
- Access to BIRD opened
- Since 1.11.: NAF Remote Desktop offered

## > Some early reports – mainly CMS

- Qstat not reporting: Needs tweaking and reporting
- AFS scratch: Working on this. Should be possible
- Job throughput: Would like to have more nodes. Working on putting some older Grid WNs as a temporary measure
- -l site=hh ... does not work in Hamburg. Not necessary

## > Still need to find an easy way to get external people a DESY account

- Will have a scheme for 1.12.2012 / Alliance workshop – with some manual work inbetween for a handful of users
- The final and production solution will not be there 1.12.2012

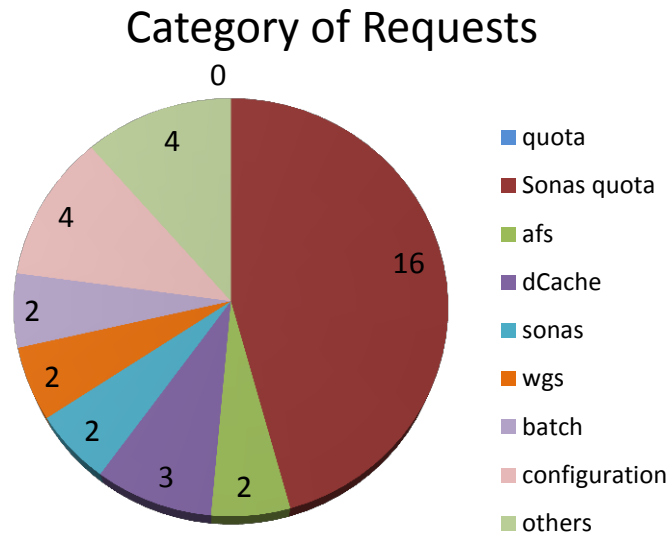


## Some words on Lustre and other products

- > On 1.11.2012 we should have mounted the HH-Lustre read-only (of course announcing one week in advance)
- > We have not done this. Why?
- > IBM Sonas should replace Lustre, and working OK until now.
- > We would need more space in near future – requests from users
- > IBM pricing scheme for capacity extension not yet final (hopefully) – but needed for future plans. Once purchase plans are clear, we can continue with Lustre decommissioning and Sonas deployment.



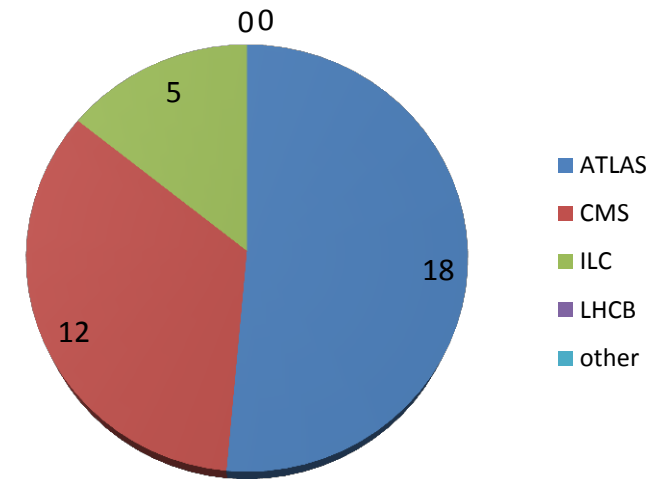
# [Naf-helpdesk@desy.de](mailto:Naf-helpdesk@desy.de) (Oct 1<sup>st</sup>- Oct 31<sup>st</sup> 2012)



35 tickets in total

Mainly Sonas quota requests

Requests by Experiment



Date/Category of Requests

