

# NAF 2 issues.

Some first problems from the ATLAS users on NAF-2

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# Problems with tickets (1)

## > # 517365: Some nodes do not have CVMFS mounted

- Even if the option `-l cvmfs` is included
- Result: Athena is not found, job crashes
- Nodes affected: bird035, 080, 120, 132, maybe 123
- Problem reported by IT, CVMFS changed from native to automounter, but this was another set of nodes (bird105, 109, 122, 128, 133)
- Anyway: is it not the case that CVMFS repositories should be available on ALL nodes?

## > # 517208: Not enough jobs starting

- 1000 jobs submitted, only running 15 at a time, even when each job takes minutes
- Options included: `-l h_vmem=2G, -l cvmfs, -l distro=sld5, -R y, -q short.q`
- Problem went away but has returned
- If this cannot be solved may be have to make a request from one user for special queue, urgent work to be completed this week



## Problems with tickets (2)

### > # 511034: Jobs go to default queue, instead of 3GB as requested

- Reported independently by two users, this has been happening on a set of nodes, bird032, 033, 034, 036, 038, 039
- Then jobs crash as they are out of memory
- Current solution: add lines like `-l hostname="!(bird03*)"` – not ideal
- Anything special with these nodes?

### > # 512228: Jobs crashing with “No module named \_md5” problem

- Looks like a python compatibility problem, with openssl, SL6..?
- Is from before Christmas, looks like it has gone away, was something done?

### > # 518926: Memory requirements for multicore processes

- Question from user about multi-threaded batch use and the big birds queue



# Problems with tickets (3)

## > # 515452: Athena compilation on NAF-2

- Much slower compilation observed on NAF-2 wgs compared to NAF-1
- Required compilation takes 1.5 hours instead of 20-30 minutes, limiting working ability
- Many things ruled out, suspicion is native -vs- nfs-mounted CVMFS
- Request for a procedure to test this last week
- If this is proven to be the case, we will need native CVMFS on the ATLAS NAF-2 wgs
- Related to this is the “Sonas compilation issue”, as this was raised again as an alternative to compiling on afs (xxl) space
- However, the [gccxml\\_cc1plus](#) in the Athena release does not work on Sonas due to some (finally well documented in a README) issue with 64 bit inodes
- I have now reinstalled gccxml\_cc1plus in the [/afs/desy.de/group/atlas/software](#) space, but it is unclear how the users can link this instead of the version in the Athena release



# Additional issues (1)

## > The naming convention of the ATLAS afs xxi directories

- Is currently a mixture of “xxl”, “xxl-atlas” and “xxl-af-atlas”
- No clear logic pertaining to who gets which name
- Also makes no sense, as someone who is “ATLAS”, may become “AF-ATLAS”
- I always request “xxl”, but users will not specify this themselves
- Would like ALL to be “xxl”, including changing those that are currently not..

## > NAF-2 mailing lists

- Recent mail to naf2-atlas-users: how is this list set up? And when to use?

## > Closure of ATLAS NAF-1 accounts

- Confirmed with T. Tempel ([#519266](#)): possible to set all accounts to expire 30.06.2014
- I would like to do this, along with CMS (I think)
- The [/afs/naf.desy.de](#) cell and registry could (should) stay until the end of the year



## Additional issues (2)

### > NAF-2 monitoring

- You know this, but bird-watch still showing ATLAS and AF-ATLAS jobs
- I did not check in detail, but user [camarda](#), submitting jobs from nafhh-atlas02 (SLD6), has project and group ATLAS
- It would also be nice to have the table of jobs like we had in NAF-1, with admin rights to see all users, to help diagnose problems

<https://www-zeuthen.desy.de/dv-bin/batch/stat/sge/jobs/>

- I've been trying to understand the observed differences between what bird-watch says and what qstat tells me (#518326)
- Differences due to single array jobs, maybe parallel jobs..

