

NAF Operation Status

Andreas Haupt, [Yves Kemp](#)

NUC meeting

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General Remarks:

- > General stable running
- > One ATLAS-WGS had defective RAM
 - Unscheduled downtime and change
- > Problems with one AFS server
 - Does not affect users, as failover mechanisms used
- > Problems with afs_admin
 - Solved.
- > Change of Queue made as discussed in last NUC (see later)



Subversion version

- > Atlas needs newer subversion version
 - New: 1.4.4, currently installed: 1.1.4
- > Problem: Once repository treated with the new version, older clients cannot access it anymore
 - Potential problems if client@NAF newer than client@elsewhere
- > Installing new version no problem for us
 - We prefer to roll out one version for all VO's
 - Although we could roll out a special version on ATLAS WGS only
- > CMS/ILC/LHCb???



SL5 migration (1)

- > Added “SLC5 compatibility RPMs” for ATLAS
 - Wishes from CMS/ILC/LHCb?
- > Converted some WNs to SL5 ->special queue
 - Converting SL5 WNs and queue setup works!
 - Positive result from one ATLAS user
 - No negative feedback from SL5 users (but not much usage either...)
 - Why aren't the others using this queue if there are no problems?
- > Our hard **deadline**: No SL4 after Oct. 2010!
 - This is not so far as it seems: We certainly cannot change during the first data taking period. So, we must be SL5 ready before the summer holidays.
- > Purchase of hardware end 2009
 - Cannot buy newest HW if SL4 support needed
- > No new Lustre client not available for SL5
 - New feature / bugfixes might not be available



SL5 migration (2):

> WGS:

- After Detector School, give each VO one dedicated SL5 WGS.
- \$VO.naf.desy.de still points to SL4 WGS
- If \$VO is ready, one SL4 WGS transformed to SL5 WGS
- \$VO.naf.desy.de points to SL5 WGS
- One SL4 WGS remains (until deemed unnecessary) -> WGS or WN
- SL4 WGS might not have all Lustre available

> WNs:

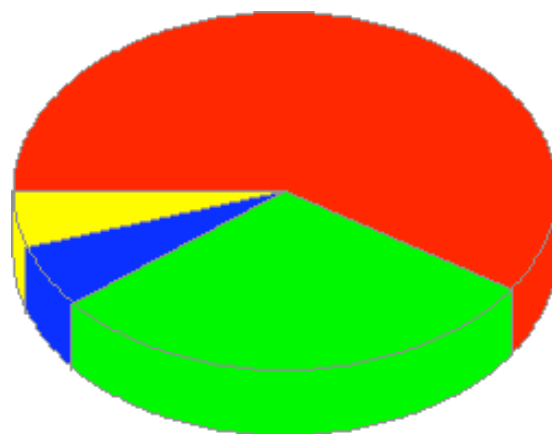
- New Hardware: SL5
- Current Hardware: Migrate as needed, Incitation to users to use SL5
- Target: Have >50% WNs migrated to SL5 and SL5 queue default before data taking

> Grid: Migration at DESY-HH not yet done, several technical problems

- Will be done when these are solved (Quattor, RPMs, NFS server...)

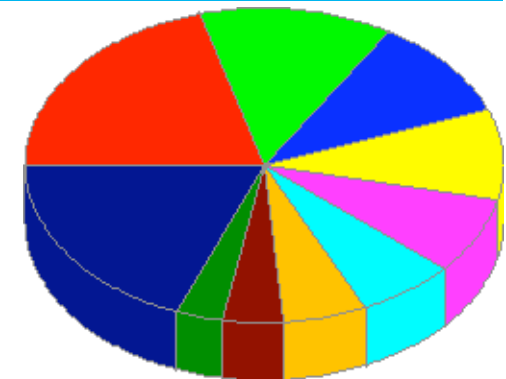


Usage



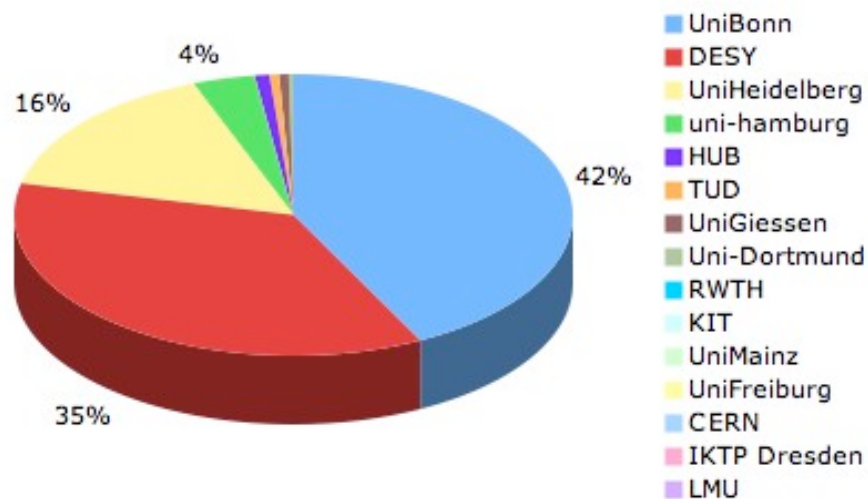
atlas:59% ilc:30%
lhcb:6% cms:5%
support:0%

CPU usage 10.5-10.6.09
← per project
Anon. user →



atlas1:21% ilc1:13%
ilc2:10% atlas2:9%
atlas3:8% atlas4:7%
ilc3:6% cms1:4%
atlas5:3% 51 other:19%

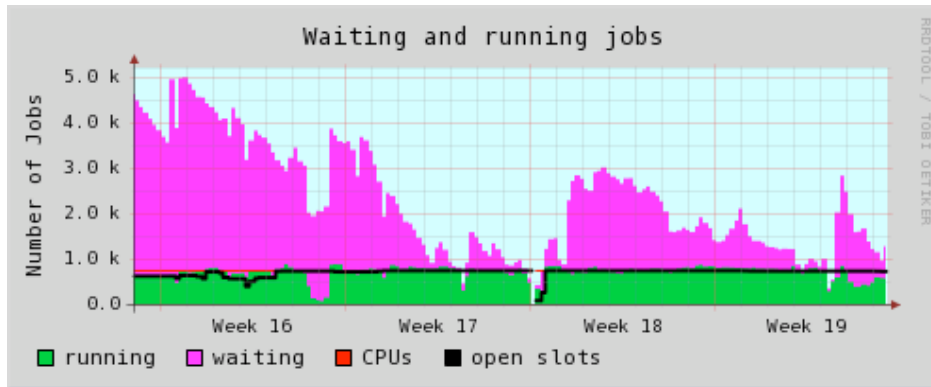
NAF: CPU usage (1.1.09-15.5.09)
(according to user certificate)



CPU usage of last half-year
(statistics to be used carefully...)
DESY not the largest user
Accepted well in German community



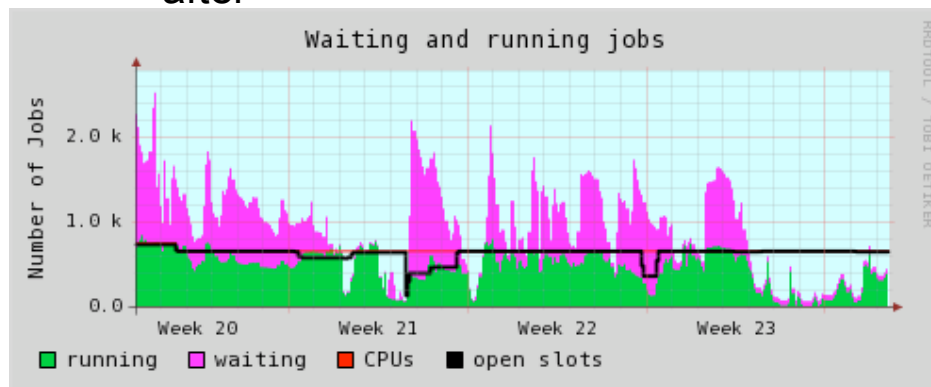
Change of Queue Setup



Before

plots do not say too much as last month the occupancy was not too high

after



Status Lustre

- > News from Zeuthen:
- > LHCb: 15.2 TB in production
 - /scratch/zn/lustre/lhcb
- > Atlas: Tests finished. To be reconfigured as AFS-OSD (20 TB)
- > Rest: Used for AFS-OSD tests



Grid usage

- > Currently, DESY-HH is used a lot (STEP09...)
- > Most Atlas users seems to ignore about /atlas/de
- > There is currently only very little share left for normal atlas users!
German users really should user /atlas/de
- > Atlas (and other VOs!): Please inform your users about the correct usage of /\$VO/de
- > Please report any problems (with DESY-HH/DESY-ZN/NAF/external sites) to us!



TeraScale Detector School

- > ATLAS and CMS using NAF for school (29.6.-3.7)
- > (5+3) additional WNs converted WGS during this period
 - Not available to queue
- > /pnfs will not be mounted on the additional WGS
 - Question: Unmount /pnfs on all WGS?
- > General comment about schools on the NAF
 - NOT supported: General purpose schools or inhomogeneous participants (e.g. MC-School)
 - Supported if audience homogeneous and the usual NAF target group
 - Contact the NAF operators beforehand for organizational details
 - If school at DESY: Contact it-training@desy.de : Will help you with organizing the whole infrastructure!

