

NUC

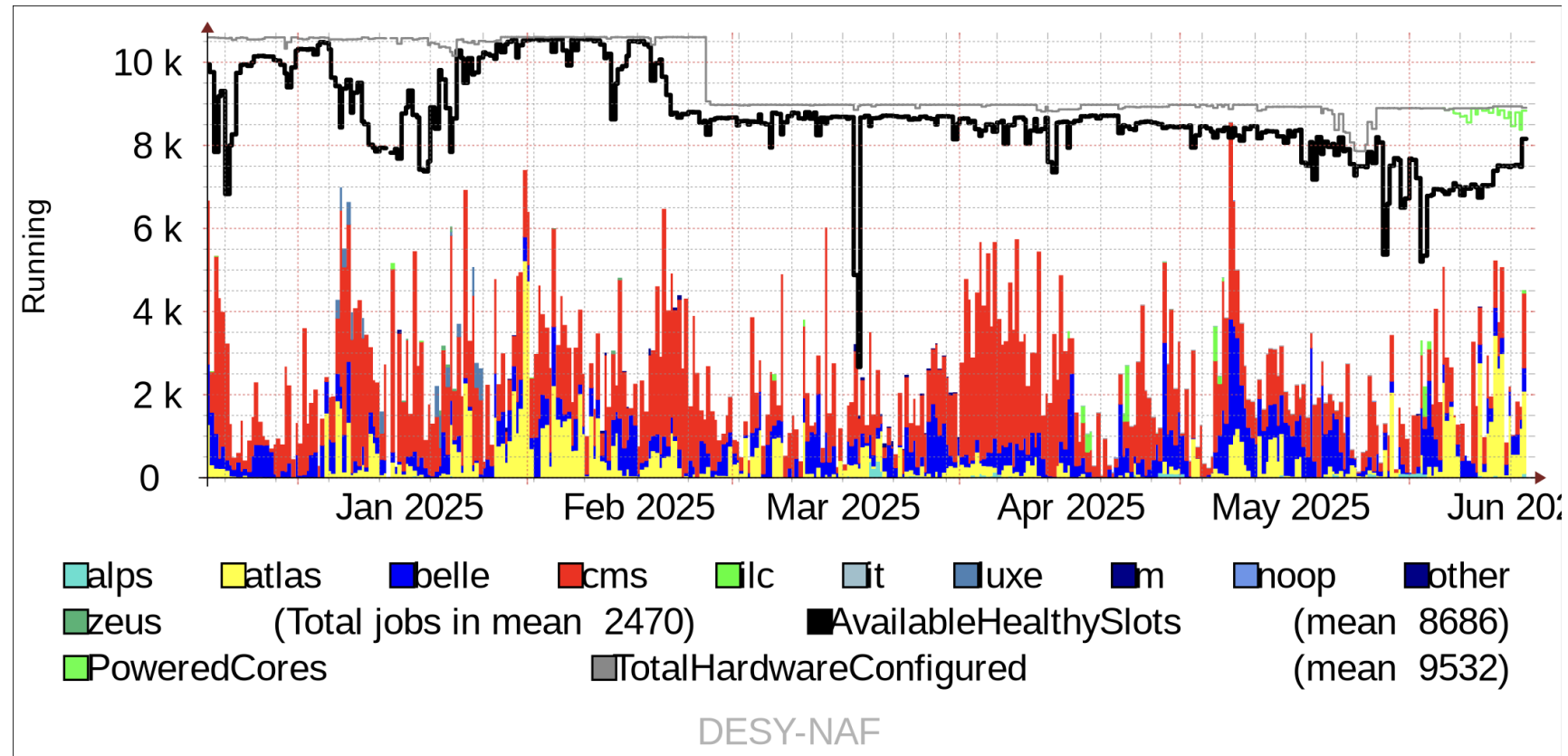
17.06.2025

Kemp Yves, Beyer Christoph, Dietrich Stefan, Voss Christian
DESY HH

NAF special incidents since last NUC

Nothing we are aware of

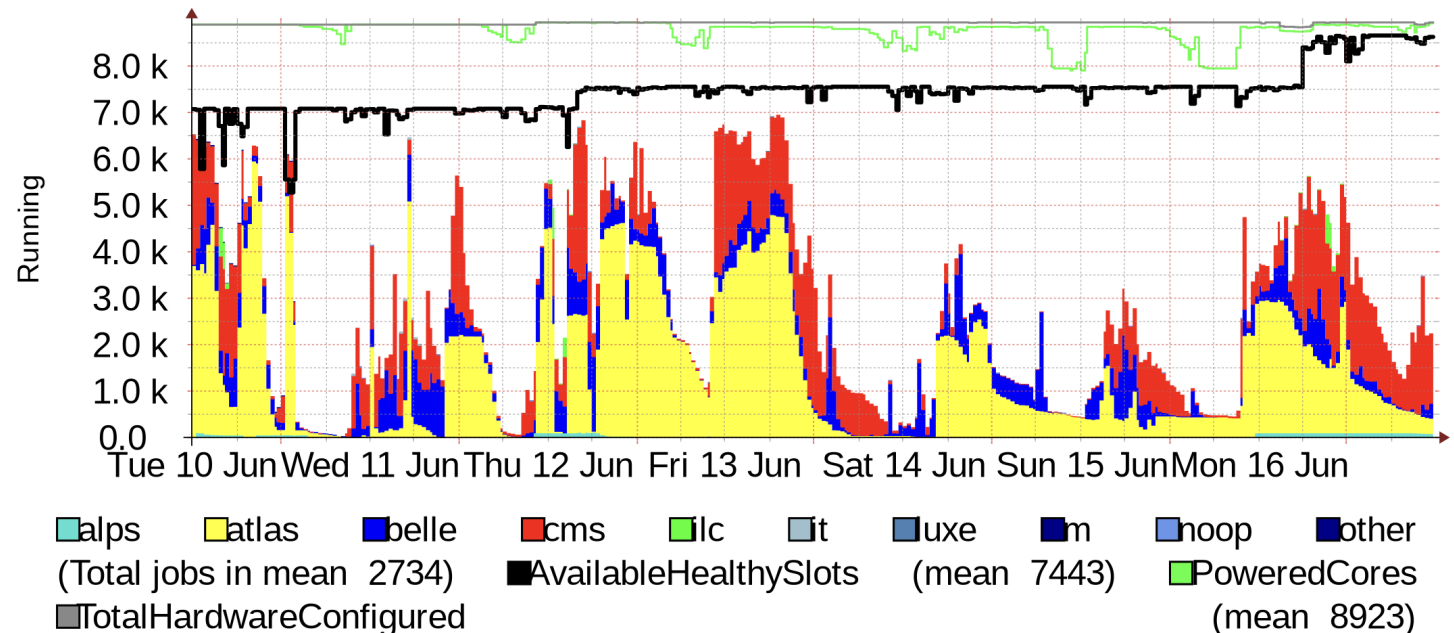
- Only minor issues
- Decommissioned older nodes in february (drop in grey line)
- ~ 90 nodes / ~1.500 cores
- Manuf. Dates 2015/16/17



NAF configuration/setup changes

Sustainability

- Decommissioned older nodes (did not like power-play)
- Re-engineered and enabled power saving mode for subset of nodes as a test
- New green line in plots for “cores under power”
- Once proved stable the majority of nodes should go-down-when-idle



DESY-NAF

NAF configuration/setup changes

Federated accounts in NAF

- The decommissioning of OpenStack set an end to the HIFIS Jupyter Notebook Service
- Setting up a similar service in the NAF seemed sensible and 'easy' to realize
- Sparse usage on previous VM based service (#user, CPU-time, ...)
- Access: Automated from other Helmholtz, via Helmholtz-VO for other
- Interesting e.g. for schools without data access
 - Should NOT replace regular NAF accounts
 - AAI Technology might be interesting for new NAF registration

English v

Sign in to your account

DESY Username
chbeyer

DESY Password
.....

☐ Remember me

Sign In

External users & external collaborations

Helmholtz ID

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DUST Status

Software Upgrade

Software Upgrade

- Announced Maintenance on 2025-06-23 + 2025-06-24
- Software Upgrade of Storage Servers
 - Several bug fixes and getting rid of mitigation with negative performance impact
→ mitigation applied end of March 2025, reduces read performance slightly
- As usual, /data/dust remains accessible, but available bandwidth is reduced by 25%
- DUST NFS servers will be also upgraded to match software release of Storage Servers
 - Patch update of Ganesha, neither major nor minor update
→ very quick update ($\leq 1h$), no issues expected
- HTCondor scheduler servers require a GPFS update as well
→ rolling update

dCache Status

Upgrade for ATLAS, CMS, Belle II and smaller experiments – Timeline & Procedure

- When opening a ticket with NAF admins, feel free to add a list of files you're reading to allow us to collect data easier per user/job to increase the entropy and reduce the probability of bottle necks
- After some delay the storage pledges are in place for ATLAS&CMS (Belle II pledges on time)
- Some spare capacity left:
 - Discuss the financial aspects with the pledges in 2026 especially with light of Uni-Tier-2 ramp down
 - Discuss earlier replacement for more volatile storage systems with operations
 - Proposal where to place remaining spare capacity: User space vs. centrally managed space (Question to the experiments)
- Last Sunday: preparations for disaster recovery (until Monday morning only NFS reads were possible)
- Next steps: selection of user directories to begin flushing to tape (priority with XFEL in long shutdown)
- Coordinate with Christoph, Hartmut and Johannes

Analysis Facilities

- Hot Topic in WLCG
- Trend to “Experiment Silos”
- Future of the NAF as a generic multi-community facility unclear
- Need your help in maintaining NAF multi-community!
- will not be able to maintain N*experiment-flavoured AF!

NAF & IDAF Strategy

Preparing for PoF-V

- NAF is part of the IDAF ... and with that an Helmholtz LK-II facility
- Strategy process for PoF-V has started
- Interviews with selected experts from key IDAF user communities
 - To take place until early August preferably