

Belle II @ DESY Grid Site

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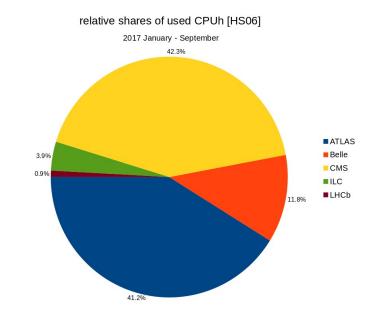
DESY: Resources for Belle II

> CPU:

- 150 kHS06 (new and old hardware)
- Main: HTCondor (2 ARC-CEs)(WLCG) (136kHS06) (20% Belle II)
- Add: PBS/MySched (2 CREAM-CEs) (~40 kHS06) (Belle, ILC exclusive)
- Belle II used in 2017 so far: 12%
- Memory 4GB/job (hard limit 8GB/job)
- Scratch 20GB/job (hard limit 30GB/job)
- CVMFS (6 Squids)
- DESY-HH supports multi-core jobs!

> Storage:

- dcache SE (dcache-desy.de)
- SRM, XROOTD, HTTP, GSIDCAP, NFS4
- Disk for Belle II: 500TB (incl. 184TB Belle)

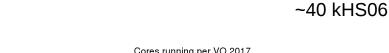


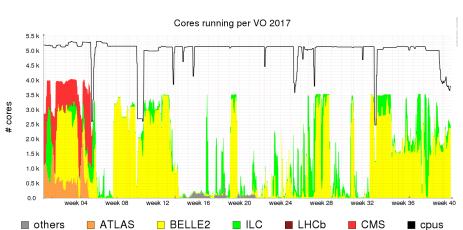
(~100% filled)

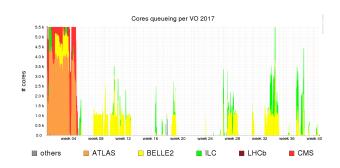


DESY: Jobs

PBS/mysched resources

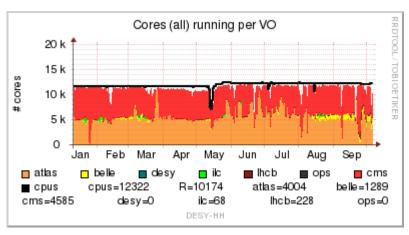


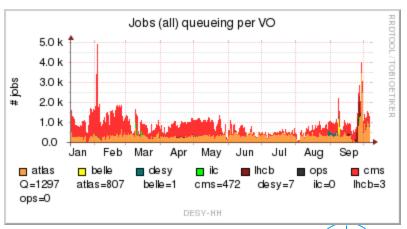




HTCondor (main Resource)

136 kHS06





DESY: Planning

Planning for 2017/8:

- We are buying additional CPU resources to meet the WLCG pledges
- EL7 envisaged
- In CPU Belle II is still small compared to ATLAS and CMS (<20%)
- The MoU pledges were positively received by the directorate (though no formal approval yet)
- The MoU pledges can therefore be guaranteed (most likely)
- We will keep outdated resources running in addition for Belle II
- A database proxy server (frontier_squid) could be installed

> Comments:

- Jobs are transient data is persistent ... Management of data on the SEs needed!
- Although the Belle II storage space is ~10 times the current pledges, it is full:
 - Who should be allowed to write where?
 - Who is cleaning up?
 - Do we need quotas / partitions / volumes?
 - Data needs to be transferred and stored for the analysis facility!

