





AEC - Laboratory for High Energy Physics, University of Bern, Switzerland

Thursday 01 September 2016







AEC
ALBERT EINSTEIN CENTER
FOR FUNDAMENTAL PHYSICS



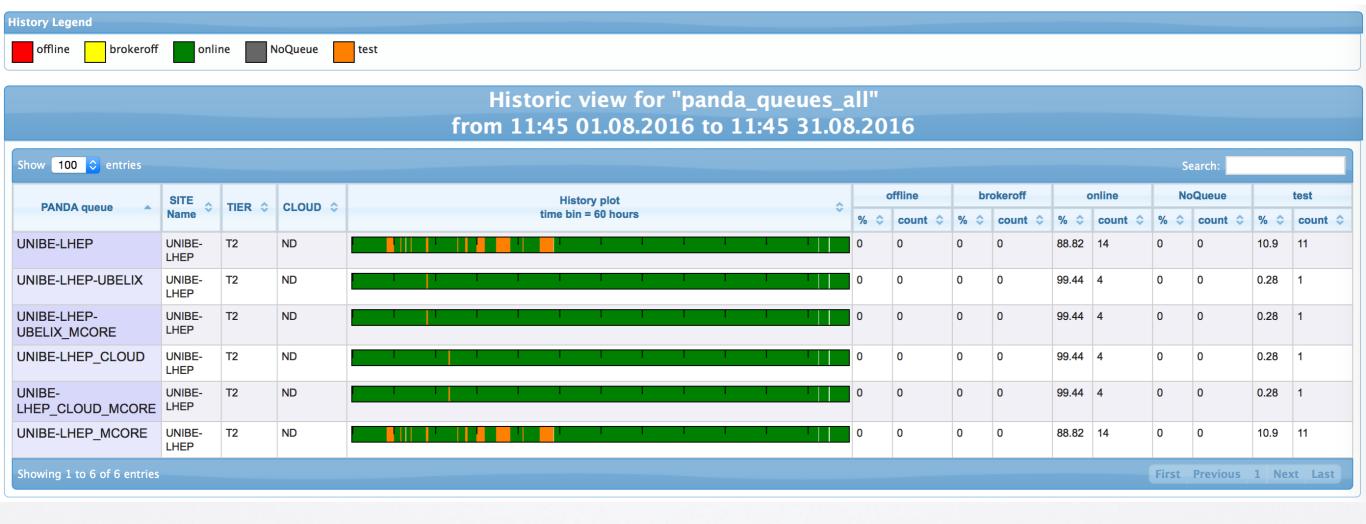




HammerCloud Gangarobot

http://dashb-atlas-ssb.cern.ch/dashboard/request.py/siteviewhistorywithstatistics?columnid=562&view=Shifter

%20view#time=720&start_date=&end_date=&use_downtimes=false&merge_colors=false&sites=multiple&clouds=ND&site=UNIBELHEP,UNIBE-LHEP-UBELIX,UNIBE-LHEP-UBELIX MCORE,UNIBE-LHEP CLOUD,UNIBE-LHEP CLOUD MCORE,UNIBE-LHEP MCORE











ce01 11.85-HEP-SPEC06

ce02 8.52-HEP-SPEC06



Nodes: 67 Cores: 1100

Installed Capacity: 13038 HS06

Nodes: 82 Cores: 816

Installed Capacity: 6956









Issues and mitigations

- → Full root partitions on SunBlade nodes due to misuse of /tmp
- **→** Some crashes of one Lustre MDS









Outstanding work (urgent)

→ Upgrade DPM head node to SLC6

- > Only SLC5 machine at UNIBE-LHEP
- > Upgrade complicated by migration to puppet as configuration tool (yaim no longer supported)
- > Further complication is the site-bdii service on the same machine
- > Started development on a VM
- > In principle all ingredients are there, but....

Provide the monthly storage dumps to ATLAS

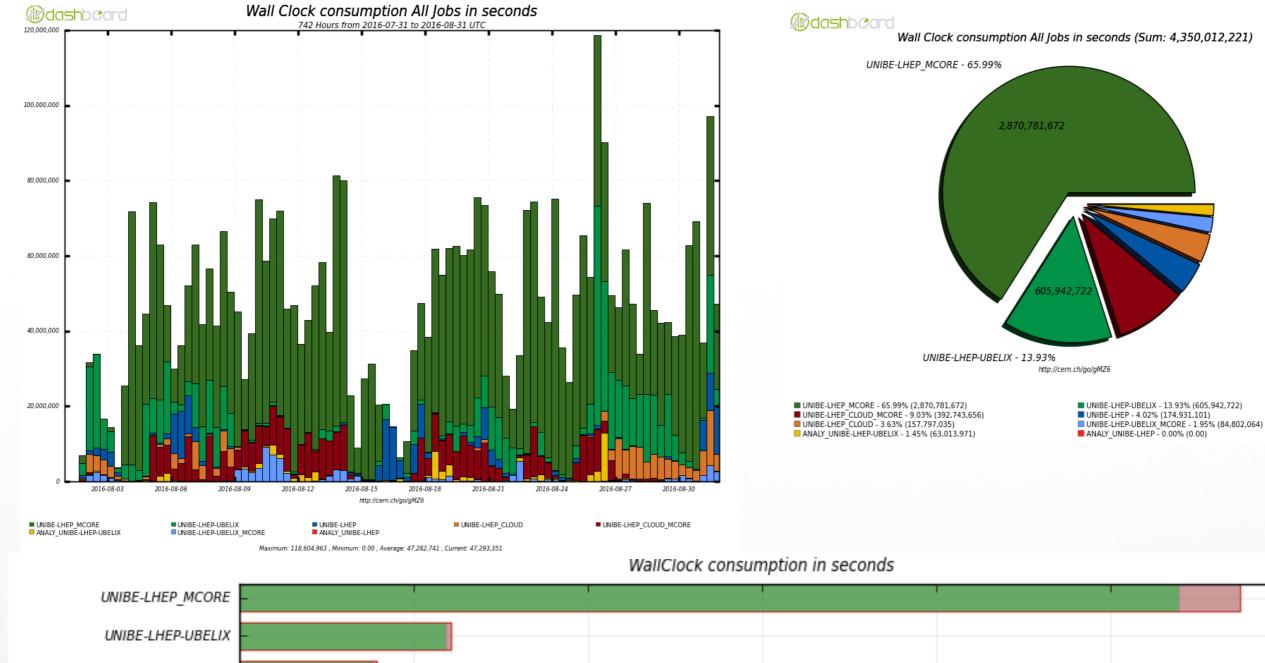
> Requested for performing consistency checks and automated cleanup of "Dark data"

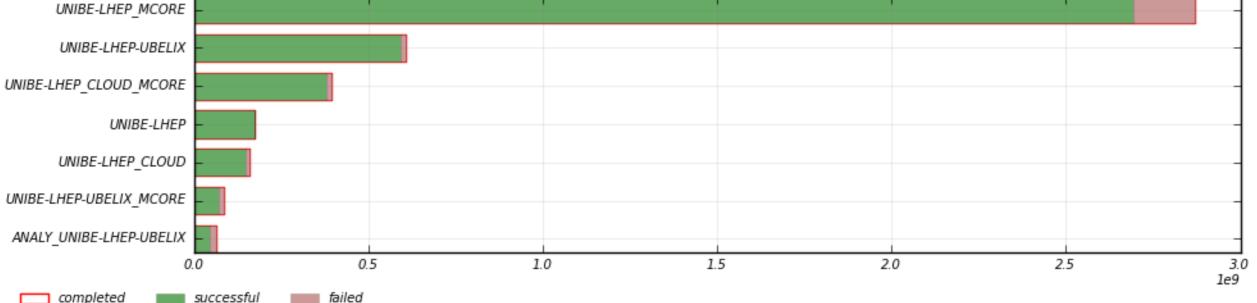






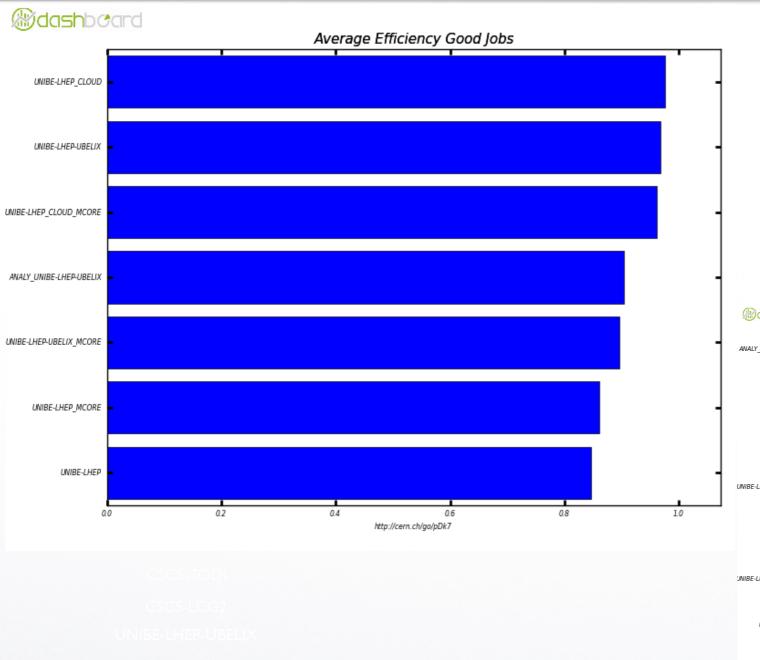


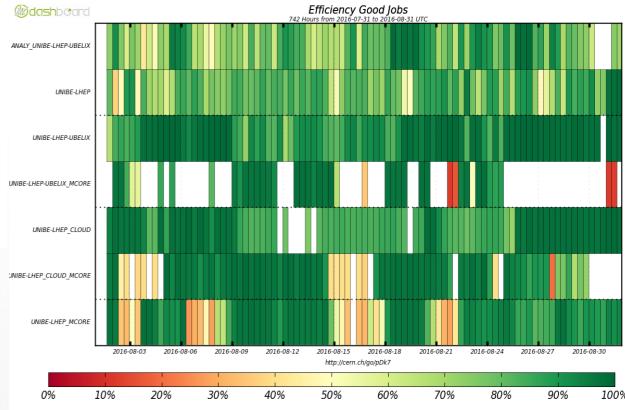












CSCS-LCG2_MCORI

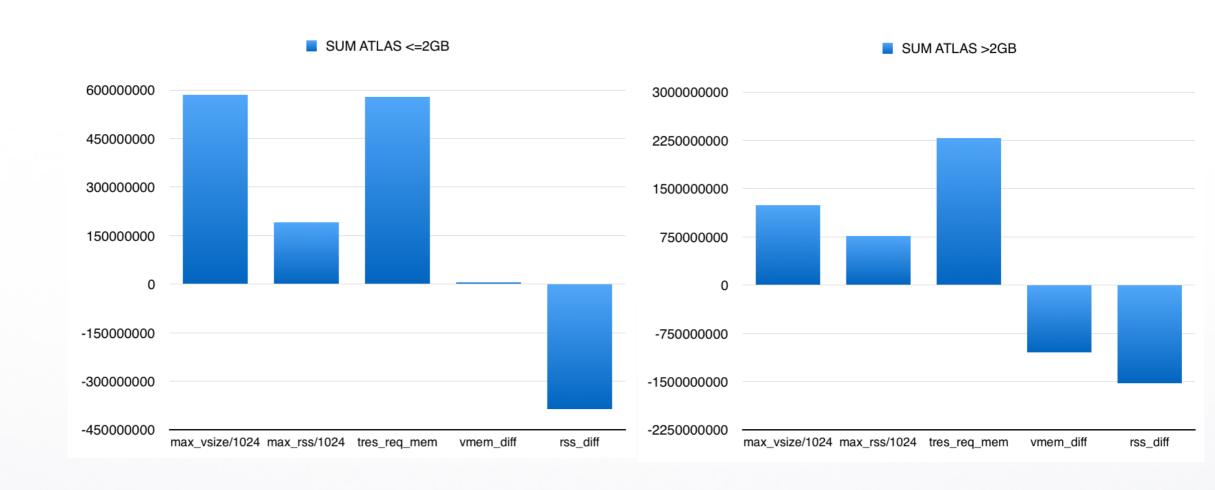
ARC_MCOR



















Plans for the future

- → Increase CPU capacity (looking for funds)
- → Recuperation of one more batch of old CERN TDAQ/HLT servers
 - > To replace some of the dead old nodes
 - > Quite useful to absorb non ATLAS requests (t2k.org,uboone)
 - > e.g. can offer 8GB/core slots to uboone "efficiently"
- → Preparing for two Power Cuts
 - September
 - December
- → Cost study: in-house HW vs Cloud
 - > We have preliminary cost study results. Final version will be presented at CHEP
 - > Based on performance of the SWITCHengines 300-core cluster during a 6-month unattended operation period
 - > Input to future cost-effective deployment model discussion and the LHConCray project



