

Perlmuter

What was, what is, what will be

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Perlmutter

- Runs HPE Cray OS
- Only whole-node scheduling
- 3072 nodes running 2x AMD EPYC 7763, 64 core, 512 GB memory
- Jobs run in Shifter containers
- Outside connection from nodes
- Full CVMFS support
- SFAPI submission

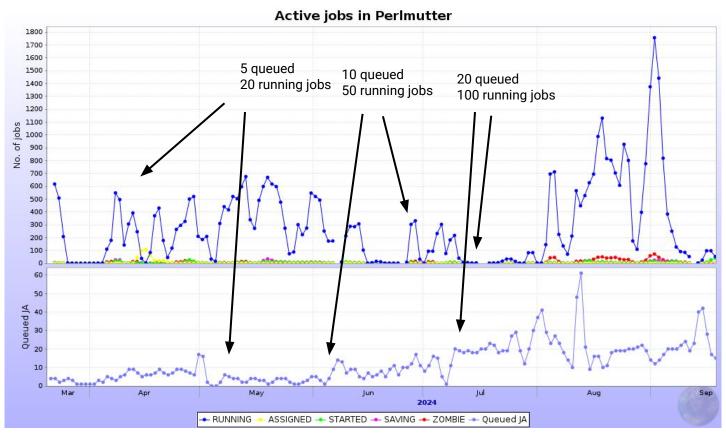


Issues when last speaking

- VO running under my user
 - Moved to aliprod user on VM
- VO running "by hand"
 - Moved to a systemd user unit
- CE running from JAR, agents running from CVMFS
- Key generated by hand
 - Still a limitation for automation
 - Irakli can setup the keys now

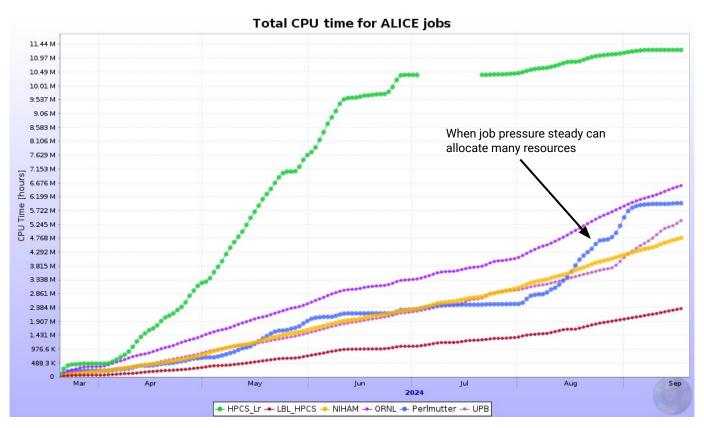


Story so far





CPU hours offered





Why is job allocation an issue

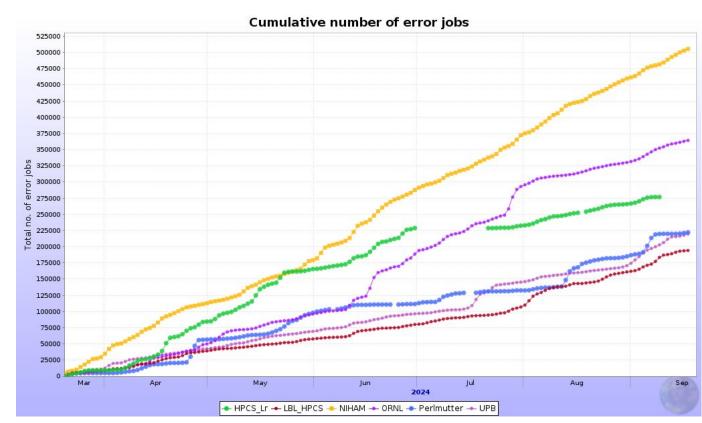
- Only running MC and DAQ jobs
- Depend on MC job pressure and Perlmutter queue





Perlmutter errors

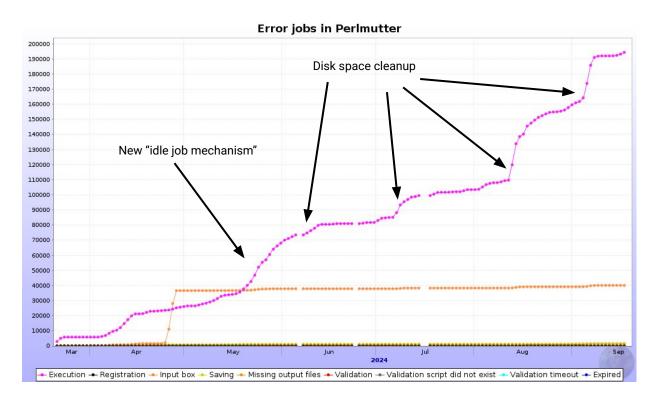
Same as similarly sized sites





Deeper dive into errors

- Sudden fails leave uncleaned workdirs
- Running hyperloop jobs lead to ERROR_E jobs





Current issues

- Patches needed to be able to run CE out of CVMFS
 - Hardcoded paths for SFAPI key
- Need to automate job workdir cleanup
- Perlmutter queue contention may be high
- No OSG reporting
- No automated or longterm key management



Perlmutter queue contention

