

Report from the April 20th Scicomp Meeting

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GlueX Software Meeting

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Procurements/ Data Center changes

- work file server status
 - PO issued, awaiting delivery
 - existing work file server overcommitted
- Machine Learning cluster PO issued, awaiting delivery
- 16 new farm19-model nodes in production (2048 cpus), 16 more on order, will arrive in July
- Additional Hot Aisle containment system to be installed by facilities this summer
- Update on Data Center humidity and LTO8 issue - monitoring in place, recovery phase continues.

Systems

- Lustre
 - I/O for small files/high IOPS - working on per-user monitoring. This has been a stability problem.
 - seeing an uptick of small file IO for log files in non-production user jobs
 - a stability problem/linkage between OSG and Lustre was resolved
- Memory use on farm nodes - many cases of >2GB/cpu that prevent full utilization from non-production users.
- Saturday planned outage for /group relocation. Farm will be rebooted.
- Infiniband network re-work is now 80% complete.

Discussion

Nathan Baltzell, Ole Hansen, Mark Ito, Bryan Hess, David Lawrence

- Work server should be available this summer.
- Machine learning cluster
 - Nvidia T4
 - Three systems: two with 16 GPUs, one with 8 GPUs
 - Currently: three systems with 4 GPUs each
- Hot-aisle work
 - To provide excess rack space for moving systems around
 - Electrical work scheduled for June 24
- Tapes
 - 50 tapes have gone to IBM, 30 have come back
 - Comprehensive scan for bad files in progress
 - Rate of discovery: was few per day, none last week
- Cache and Volatile are on the same Lustre system. Problem on one implies a problem on the other.