

INFRASTRUCTURE

- Power status in FCC (UPS1)
- Bluearc disk purchase – still coming soon
- Planned downtimes – none !
- Minos Cluster moved to minos50-53
- Bluearc performance – cpn working well, 1.9 Million served
- Parrot – is it dead yet ?
- Nucomp – integrated IF support
- GPCF – the New FNALU ?

SUMMARY

- Young Minos issues:
 - Lent minos54 to NoVA – get it back June-ish
 - When can we remount /minos/data no-execute ?
- Shut down minos01-24, using minos50-53
 - Xrootd on minos-xrootd (minos27)
 - /local/scratch disks are having problems, r/o on minos51
- Bluearc disk expansion is formatted, planning file copies
- Clearing daikon07 STAGE files, up to 10 TB
- Shall the Farm run directly from our Bluearc base releases ?
- Linked cp1 to cpn on March 23. It delivered 400K locks. R.I.P.
- Removed SSH keys from CVS March 25, only George was affected.
- Parrot status – pushing up daisies ?
- GPCF hardware arrives week of May 17-21

FCC POWER

- Power outages in FCC due to breaker trips Feb 9 and 17.
 - FCC has less capacity than formerly believed, not easily fixed
 - New Minos Cluster nodes are installed in GCC
 - We have shut down minos01-24
 - We will move minos24/26 to GCC, for fallback and tests.
 - Minos Servers can remain in FCC on UPS

GRID

- We continue to reach peaks of 2000 running jobs
 - still want 5000, after fixing Bluearc issues
- Still using wrapper for condor_rm, condor_hold
 - To prevent SAZ authentication overload
 - Condor 7.4 upgrade will fix this internally, soonish
- Changed cp1 to be a symlink to cpn around 23 March
 - cpn has taken out over 1.9 Million locks so far

Bluearc

- Continuing performance tests
 - Demonstrated 550 Mbytes/sec sustained delivery
 - Modest slowdowns up to 50 clients, 20x slowdown with 200
 - Need to test writes
- See monitoring plots, such as
 - <http://www-numi.fnal.gov/computing/dh/bluearc/rates.html>
- /minos/scratch is now /minos/app, for consistency with Fermigrid
 - /minos/scratch symlink available for compatibility for present
- Installed 99 TB for IF (MNS/MNV/NOVA)
 - Disk is installed and formatted
 - Some files must be copied to new disk before we get quota
 - Asking to merge data and data2, rather than add data3

PARROT

- PARROT should no longer be needed at Fermilab
- All our code has been rsync'd to /grid/farmiapp/minos/...
- Production analysis is being done sans-parrot.
- We will be building all new releases in Bluearc, and not in AFS.
- We may start running Farm processing from Bluearc
 - This eliminates separate Farm builds.
- minos_jobsub defaults to sans-parrot (-pOFF)
 - Why are some users specifying -p ?

NUCOMP

- GPCF hardware is coming next week, by May 22-ish
- Andrew Norman has been hired by REX as Associate Scientist
 - Major player in Nova DAQ support.
- Getting signatures now on a requisition for Soudan networking upgrade
 - Existing hardware is far beyond end-of-life
 - Targeting July/Aug shutdown for installation
- Budget process
 - Much earlier this year, to allow feedback
 - Present FY11/12 guidance from CD is grim, under ½ of needs
 - Drafting Minos Tactical plan, with data and software model

</afs/fnal.gov/files/home/room1/kreymer/minos/budget/2011/FY11TacticalPlanForMINOS.odt>
- <http://indico.fnal.gov/conferenceDisplay.py?confId=3355>

GPCF

- Initial configuration for GPCF
 - 14 interactive, 14 batch hosts
 - 24 TB SAN disk (probably not enough)
 - Interactive systems will be virtual machines for flexibility
 - Installing Oracle VM over next 2 months
- Nova is the primary new customer
- Will set up 5 Nova interactive nodes immediately, pending VM tests
- We will ask for at least some virtual machines for testing
 - 32 and 64 bit, SLF 5 , worker nodes, etc.

Minos Cluster migration

- New nodes are minos50 through minos54
 - Each roughly 8x the capacity of an old node
 - 5 nodes replaced 24, roughly x2 capacity increase
- Lent minos54 to NOVA short term ?
 - Will get it back by early June, when Nova CPCF nodes are up
- Deployment issues :
 - /local/scratch disks are unstable.
 - We need new WD disk firmware, cannot yet install it
 - Will move minos24/26 to GCC, for fallback and tests
 - Have copied all old /local/scratch areas to /local/scratch5*/...
 - scratch01 was copied separately to /minos/data/maint/scratch01
 - All releases are built on 64bit kernel hosts
 - Thanks to Luke Corwin, Robert Hatcher, et.al.