

EXECUTIVE SUMMARY

- Young Minos issues:
 - /local/stage1/minosgli temporary reprieve - grid worker shared area
 - Retiring AFS data areas, due to old hardware
 - Exceeded goal of 5000 jobs on the Grid
- FermiMail (IMAP) migration is complete
- SLF5 migration is complete - have minos-slf4 through May
- Dcache Chimera update is complete - NFS 4.1 access with SLF 6.2
- Planned outages
 - Apr 19 - Dcache Chimera upgrade - NFS 4.1 access with SLF 6.2
 - May 1-2 Bluearc firmware upgrade completed
 - May 17 - AFS upgrade to support Fermilab tokens
- Control Room - System Management by FEF coming - CD DocDB 4430
- Home areas may move from AFS to Bluearc - starting planning now

GRID

- Reached 6100 grid jobs running on April 21
 - Exceeded old Young Minos Goal of 5000
 - Compare to GP/CDF/D0/CMS capacities of 4700/6500/8100/7600
 - minos25 master was overloaded, have doubled capacity of VM since then
- CPN - 11.1 locks served to Minos (2.3 M NovA, 7.7 M MNV)million
- Still preparing to use shared jobsub scripts, gain 100 GPCF local slots
 - /grid/fermiapp/common/condor
- Should start using the Bluearc GridFTP server for MC import
 - <https://cdcvs.fnal.gov/redmine/projects/minos/wiki/BESTMAN-FTP>
- GridFTP servers available to let you own your Grid job output files
- Local shared file support
 - OSG_WN_TMP was converted to per-job temporary areas, removing /local/stage1
 - Temporarily restored on GPFarm nodes, discussing long term solutions
 - FermiGrid evaluating alternates (cvmfs, NFS4.1, pilot based cache)

DATA handling

- SAM Projects have been run this year only to test the SAM Station.
 - Will continue to prototype lightweight script to deliver files in a fashion similar to what was done by a SAM Project.
- Stop using 2 TB /grid/data, now that we have 220 TB /minos/data
 - Removing /grid/data/minos/users/rustem
 - Shifting other user files to /minos/data/user/...
- New SAM-WEB interface deployed in Minerva and NovA
 - Intended to replace old C++ library
- Open Storage solutions for disk deployment – studying
 - Cost under \$100/TB, versus latest \$300 Bluearc purchase
 - Good match to SAM and Dcache, and parts of Enstore
 - <https://cdcvs.fnal.gov/redmine/projects/minos/wiki/DATAPLANOPEN>

Enstore/DCache

- DCache 'Chimera' database migration Feb 23
 - Requires client use of encp v3_10e (deployed for Minos).
 - ls reports the correct file sizes for files over 2 GB
 - With SLF 6.2, will be able to read/write files via NFS 4.1
- SFA - Small Files Aggregation deployed in Enstore April 19
 - Transparently tars small files into large files for tape
 - Based on file family configuration
 - No Dcache write path - yet
 - Requires encp v3.11
 - I will start archiving our Bluearc mcin_data files

NUCOMP

- Still need to test using shared 'jobsub' script
- IF Beam monitoring deployed for testing (NovA era beam monitoring)
 - Still need to compare to our beam data logging
 - <http://dbweb3.fnal.gov:8080/ifbeam/app/Dash/index>
- About 750 TB of Bluearc disk deployed last month – to be allocated

FERMIMAIL

- http://computing.fnal.gov/xms/Services/Getting_Services/FermiMail
- Exchange 2010 IMAP server transition is complete
- Fairly good browser and imap client compatibility
 - A few early glitches - false reports of mail size mismatches
- Excellent webmail interface - email.fnal.gov
 - Includes meeting room calendar, formerly MeetingMaker
- My alpine configuration :
 - Inbox Path = {email.fnal.gov:993/ssl/novalidate-cert/user=kreymer}INBOX
 - Menu / Setup / Configure
 - +expose-hidden-config
 - +disable-these-authenticators
 - A GSSAPI
 - A PLAIN

GPCF

- Moved from GCC to FCC week of May 1
- Using KVM, previously used OracleVM
- minos-slf4 = minosgpvm02 runs SLF 4.7 32 bit kernel
 - through this month
 - Option to extend to Aug 2012 if needed

Minos Servers

- New IF Mysql replica server being deployed now
 - Much faster than minos-mysql1, which we have shut down
 - Will abandon dbmauto for farm replica, use standard Mysql replication
- SLF5 migration is complete
 - minos27 (code build) was upgraded Jan 19, all builds now at SLF5.
 - minos25 (condor master) moved to a VM
 - minos-slf4 available for fallback and testing through May

Control Room

- System Management - to be assumed by FEF in place of John Urish
 - Evaluated Lenove workstation - successful
 - Ready to purchase now
- ReMote Shift (RMS)
 - Continuing to use this locally and remotely
 - Need upgrade to SLF 6
 - Should make RC and EVD Web Services to minimize support
- Consider moving DQM and web servers offline
 - Would like to make all CR systems identical