

EXECUTIVE SUMMARY

- Young Minos issues:
 - /local/stage1/minosgli temporary reprieve - need grid shared area
 - Retiring most AFS data areas, due to old hardware
- FermiMail (IMAP) migration is complete
- SLF5 migration is complete - have minos-slf4 short term
- 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

- CPN - 11.1 million locks served to Minos (2.3 M NovA, 7.7 M MNV)
- Still preparing to use shared jobsub scripts
 - /grid/fermiapp/common/condor
 - Will give us access to about 100 GPCF batch slots
- Should start using the Bluearc GridFTP server for MC import.
 - UT Austin tested this
- 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, as originally planned
 - This removed /local/stage1
 - We had been using /local/stage1/minosgi for 3 GB shared files, for efficiency
 - Temporarily restored on GPFarm nodes, discussing long term solutions

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.
- New SAM-WEB interface is being deployed in NOvA and Minerva
 - Intended to replace the old C++ library
 - We should move to this as soon as convenient
- Investigating Open storage solutions for disk
 - Cost claimed under \$100/TB vs \$300/TB Bluearc
 - Good match to SAM Cache and Dcache
 - Could use to replace tape in Enstore
 - <https://cdcvs.fnal.gov/redmine/projects/minos/wiki/DATAPLANOPEN>

Enstore/DCache

- DCache 'Chimera' database migration Feb 23
 - about 18 hours, starting around 00:00
 - Requires client use of encp v3_10e (deployed for Minos)
 - We see 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 Apr 19
 - Automatically bundles and tar's small files written by ENCP
 - Dcache can handle these transparently
 - No Dcache writing yet.
 - Requires encp v3_11

NUCOMP

- Still need to test using shared 'jobsub' script
- FTP servers allow files to be owned by user instead of minosana
- 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 Bluearc disk purchased this spring
 - Allocation yet to be determined

FERMIMAIL

- http://computing.fnal.gov/xms/Services/Getting_Services/FermiMail
- Exchange 2010 IMAP server transition is complete
- good browser and imap client compatibility
- Claimed excellent webmail interface - email.fnal.gov
- A few early glitches (false reports of mail size mismatch), mostly OK now
- Uses IMAP port 993, not old default 143.
- 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 to FCC May 1,2
- Using KVM now, not OracleVM
- minos25 now running as a GPCF VM
- minos-slf4 = minosgpvm02 runs SLF 4.7 32 bit kernel
 - Staying through May 2012, unless a security issue emerges
 - Option to extend to Aug 2012 if needed
 - 'Just In Case' we need to test SLF 4 compability

Minos Servers

- New IF Mysql replica servers being deployed
 - 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 upgrade Jan 19, all builds now at SLF5.
 - minos25 (condor master) scheduled Feb 23, moving to a VM
 - minos-slf4 available for fallback and testing for 3 to 6 months

Control Room

- System Management - to be assumed by FEF in place of John Urish
 - Lenovo demo model tested, looks fine.
 - FEF will take over management when new systems are bought
- ReMote Shift (RMS)
 - Installed in our control room, same as remote stations
 - Installed on the minosrv-nd system at the ND
 - Being used to run everything but EVD
- Need to move to SLF 6, local and RMS.
 - Consider converting EVD and RC to a Web service
 - Consider moving DQM to offline systems