** 2007.08.21

*** Releases

Client 8.2.1 made last night. Has changes described last week. – Steve S. will test. Most commands that accept a group argument will accept an environment variable SAM_GROUP.

*** D0

See mail

DB Reanalysis fixed execution plans of slow queries. Takes 58 hours to do the reanalysis. Maybe we have to do this quarterly (was doing weekly, but turned off since all was well for > 6 months).

Someone somehow was able to insert spaces and a tab character into a dataset name. Steve will ban spaces and tabs for all input of names.

Steve will update and restart all calibration DB servers this week. Update has new version of python, cx_oracle, Omniorb. This will get the calib DB servers caught up to the same versions that SAM uses.

*** CDF

See mail

Wednesday – fcdfdata324 got a lot of file restore requests – it got the files from tape but didn't serve them out. Had some dCache problem – pool server program was restarted –– fixed.

Also, DB Browser machine was unresponsive, and this held up uploads. The machine was restarted by an unknown person (Not sure if someone really restarted). All fixed. Randolph will check the syslogs. The upload program uses the DB browser to get the dataset description. Are the DBB machines on ganglia? Can't find them.

Nameservice problem fixed by Angela – problem was due to the fact that some old machines were removed from DNS. The nameserver then does not let go of these machines and gives errors. The defunct machine pruning was not running in integration – should be run (pruning is run in production).

*** MINOS

See mail.

*** DB

See mail.

Sept 4 down day will install oracle and os patches. Perhaps a good day to do start the reanalysis.

*** enstore/dCache

Downtime last Thursday for STKEN. Users should see no changes. Some enstore software updates and rearranged cables on the rack to make things easier to maintain. Replaced a handbot on the SL8500. No plans for downtime in the near future (may be decided later). On the public dCache, one of the pool nodes stkendca9 was dropping pools (not clear why). Developers asked to check hardware. No anomalies found. Will put it back in and see if it fails. Perhaps running out of file descriptors.

SRM was restarted at 1800 last night (was a helpdesk ticket). The pool services said that it was up, but in fact SRM was in a funny state. Had gone for a couple of weeks without a problem previously.

From: Kin Yip <kinyip@bnl.gov>
Subject: D0 Sam weekly report Aug. 14 – Aug. 21, 2007
To: *sam–design@fnal.gov*
Cc: *Daria Zieminska <daria@indiana.edu>*
Date: *Mon, 20 Aug 2007 18:03:03 –0400*

I'm doing this report as Daria has personal issues to focus to.

A few new UNRESOLVED issues this week :

––– Wuppertal has been suffering from submission problems since Aug. 16 : IT #2943, #2942, #2940, #2939, #2938, #2937, #2936, #2935 and #2923. A lot of email traffic.
––– IT#2941 : "Large numbers of failed jobs on d0cabosg2 seemed to be caused by an authentication problem on d0srv047". Help ?

––– IT#2931 : dataset/file transfer problem with d0farm.hecr.tifr.res.in. Can someone help the poor Nagaraj ?

––– Large no. of large logfiles had made Samgrid down. (IT# 2929, #2928, #2926, #2925, #2922, #2921 and #2910).
––– IT# 2912 : Asking whether the user (Tom Rockwell) still has the problem of setting up new disk ––– newly added disk being inactive.

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Resolved issues (apart from routine requests) :

––– Some unreponsive complaints around the Tuesday downtime (eg. IT #2909) .

––– Tape problem PRZ205L1 resolved after a couple days. (IT# 2919/2915) .

––– fcp problem with d0srv069 (IT# 2914).

From: BARRY J BLUMENFELD <bblumen1@jhu.edu>
Subject: CDF SAM shift report 08/13/2007 – 08/20/2007
To: *sam-design@fnal.gov*
Cc: *lyon@fnal.gov, genser@fnal.gov*
Date: *Mon, 20 Aug 2007 18:33:25 -0400*
Reply-to: *bjb@jhu.edu*

Hi,
    This is a summary of my SAM shift. Basically, it was quiet until Monday.

Wed Aug 15 12:29:33
There are some errors under upload server for fcdfdata321 and fcdfdata322 that are still listed

Mon Aug 20 08:23:50
There are problems with CDF-LT03: Bad Movers/Bad Tape
Response from George was: There are errors on 2 of the 4 LSMs in the SL8500 robot. I have paused the CD and CDF LTO3 enstore libs.
Then later: The SL8500 is back up and running. One of the arms had to be replaced.

Mon Aug 20 12:26:00
The hourly e-mail message ns_int nameservice died at fcdfora1: status 0 was fixed by Angela

Mon Aug 20 10:39:44
An issue from Vladimir: CDF DH plots showed large backlog in file restores this morning. It turned out that a very large number (hundreds) restores has been scheduled to the pools on one node (fcdfdata316). The pools have exhausted the file descriptors and all restores were waiting. I've restarted the pools on this node, the restores in the backlog have been rescheduled to the other nodes and now things seem to go back to normal.

Mon Aug 20 16:28:48
Right near the end of the shift another bad mover (LT03_29) was reported.

Cheers,
Barry

From: Arthur Kreymer <kreymer@fnal.gov>
Subject: Minos status 2007 Aug 21
To: *sam-design@fnal.gov*
Cc: *minos_sam_admin@fnal.gov*
Date: *Mon, 20 Aug 2007 17:08:25 -0500 (CDT)*

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                    Minos status 2007 Aug 21
General  -

    Upgraded Minos Cluster and all servers ( SAM, Mysql ) to SLF 4.4
        on Thursday 16 August.

Enstore  -

DCache   -

    Continued occasional stuck pools.
    Missing Login List and plots on web since July.

    SRM server went down early Monday, still down at 17:00.  No estimate.

    Slow ROOT DCache reads in root >= 5.12
        dCache 1.7.0-39 claims to provide vector I/O, installed on FNDCA
        Still need tagged root release supporting this.

SAM      -

    IT 1894  Need 'sam locate' in C++ API
        Users really need this feature.

Oracle   -

OPEN ISSUES

    IT 1894: sam locate via C++ api, for simple client needs
    IT 1979: Compiler warnings from sam_cpp_api
    IT 2071: quadratic project startup time growth (from Nov 1 2005)

PLAN     -
    Migration to 9940B tape can proceed anytime - when ?
    Update Minos dbservers and clients to v8
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From: Anil Kumar <akumar@fnal.gov>
Subject: DB Report
To: *sam-design@fnal.gov*
Date: *Tue, 21 Aug 2007 08:43:00 -0500*

D0 :

- Scheduling July's DB patch and cumulative OS patches on d0ofint1 and d0ofprd1 Sep 4.

- Scheduling OS patches on d0ora1 this week.

- Query Slowness on d0ofprd1 was due to Google crawlers. Steve W. restricted the access.
  Schema was analyzed.

- SAM cut v6_10 on d0ofdev1 - To add composite index on lower(file_name) and retired_date

- Cut v6_19 of sam_db_seed_data and installed on d0ora1.
  (composite index on lower(file_name) and retired_date

- v6_4 index on create_date of data_files against d0ofdev1 done

- Service Request with Oracle on Full table scan Vs Index scan on data_files_param_values.
  Development is working on Bug Fix. Bug# 5601578 No time estimate yet for bug fix.
  SAR# 5837876.993

Alerts :

CDF :

- Scheduling July's DB patch on cdfofpr2 Date ?

Alerts :

MINOS :

- OS patches and kernel upgrade for minosora1 - Done
  OS patches and kernel upgrade for minosora3 - Done

- July's DB patch on minosora1 - done

- The motherboard was replaced on minosora3 on Thursday 06/21/2007
   This didn't fix the CPU warnings.
   Now on June 26, Sysadmin attempted to make the size of dimms same as per consultation
   with d1/sun. Also new kernel has been installed. CPU warnings still exist.
   More diagnostics info done on Aug 06
   -More work on minosora3 with sun - upgraded sp and BIOS firmware and rebooted
   -Now more DIMMS will be replaced in attempt to fix the CPU warnings.

- v6_4 index on create_date of data_files against minosdev - done