

**** 2007.07.17**

***** Releases**

No new DB server releases - no client releases - nothing planned.

***** D0**

2856 - error was resolved just after reported (crossed in the mail).

2851(2) - Cleanup script is still being worked out. Talk to Parag.

Newest encp client no longer works (gives big error message) on Solaris (using old client for now). Enstore people are working on it.

***** CDF**

Three nodes being reconfigured to decrease the number of file systems -- will improve dCache memory performance (as a test).

CAF station got stuck. This was another occurrence of the (supposed to be) rare project shutdown race condition (shutting down project while a file is being delivered will lead to race condition and will leave DB in inconsistent state). Put web_prd and caf station DB server to 8.2.0 which will fix the race condition. Ooops - the weekly DB server restart put the old versions back. Still doing restarts since file handles still leak (perhaps). Robert recommends that 8.2.0 be put everywhere - check autodead first.

Dehong - three LTO3 movers are in confused state (only 6 movers are working + 3 confused + 1 dead). Sent mail to enstore-admin.

***** MINOS, DB, Enstore/dCache**

See mail

From: Daria Zieminska <daria@indiana.edu>
Subject: Re: SAM Ops Meeting 9:30am Tuesday FCC1
To: Adam Lyon <lyon@fnal.gov>
Cc: sam-design@fnal.gov
Date: Tue, 17 Jul 2007 10:15:14 -0400 (EDT)

D0 Sam shift report July 9 -- July 16 2007

2856, 2854. No CRC checksum for d0runjob_v07-07-02.tar.gz in SAM
The original issue was about "No CRC checksum because of the job output
CRC from SAM: CRC('unknown crc value', 'unknown crc type')"
But sam get metadata --file=d0runjob_v07-07-02.tar.gz
shows that there is a crc in sam and it matches the one calculated in
the transfer. The question is why is this not being picked up in the
transfer.

2851. Globus error 24: the job manager detected an invalid script response
All 4 jobs submitted today (7/12) via samgrid.fnal.gov to
wuppertal2l1cg are in status held with the diagnostic: Globus error 24:
the job manager detected an invalid script response. ...
Parag: "From /local/jim/jim_tmp I see several jobs were not able to get
the status from
the edg-broker. It is working now. So seems like someone fixed it.
Whoever fixed it, please append the resolution to the ticket".
The problem reappeared on 7/15.

#2852: samgrid.fnal.gov servers down
ERROR: Can't find address of local schedd
ERROR: Job submission fail
Resolved by Parag: System disk was full.

#2849: SamTV not updating (on 7/11)
Resolved without comment

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Daria

From: ByeongRok Ko <brko@phy.duke.edu>
Subject: cdf sam shift report
To: sam-design@fnal.gov
Date: Mon, 16 Jul 2007 19:10:53 -0400 (EDT)

Hi,

Here is cdf sam shift report.
Thanks,
cdf sam shifter

```
#####  
fncdfsrv0 was bogged down a couple of times.  
Krzysztof noted the machine seemed to be overloaded by non sam processes.  
USER      PID %CPU %MEM  VSZ  RSS TTY      STAT START   TIME COMMAND  
cdfcaf    22612  7.1  23.6 2011164 970460 ?        D    09:01   0:41 /usr/bin/python2 monitor.py  
cdfcaf    5458  10.4  1.4  2010192 58544 ?        DN   08:04   6:53 /usr/bin/python2 state_monitor.py  
cdfcaf    19268  7.2  21.8 944392 893352 ?        SN   09:07   0:15 /usr/bin/python2 xml_monitor.py  
cdfcaf    6816  8.8  21.8 944380 893344 ?        SN   09:08   0:15 /usr/bin/python2 xml_monitor.py
```

As of Jul 16 2007,
dcache cells
r-fcdfdata124-2
r-fcdfdata124-3
r-fcdfdata124-4
r-fcdfdata124-5
r-fcdfdata124-6
w-fcdfdata124-7
are offline but those are known.

several dcache cells were down.
-->Solution from helpdesk: schmitz@fnal.gov sent this solution:
All 3 nodes are up. fcdfdatal10 was never down but I rebooted it anyway.
fcdfdatal059 and fcdfdatal075 were hung and required power-cycle.
-->Solution from helpdesk: schmitz@fnal.gov sent this solution:
Etta rebooted it. Looks like fcdfdatal056 was being scanned by
security when it went down.

No. of doors not responding is being increased from Friday Jul 13
and all doors were down on Sat. Jul 14.
--> dcache on all nodes restarted on Sat, 14 Jul 2007.
--> As of Mon. Jul 16 they are ok.

9940B23 was offline on Fri --> is back on Mon Jul 16.
all enstores were dead on Sat Jul 14 and restarted.
LTO3_29 is dead on Mon Jul 16 and Ken S. restarted the mover.

Same occurrence of Farm monitoring
problem from last week.
After reboot, no problem.
(Not a SAM problem)
-- This is also when dbsmon seems
to show zero activity [security
scan??]

From: Arthur Kreymer <kreymer@fnal.gov>
Subject: Minos status 2007 Jul 17
To: sam-design@fnal.gov
Cc: minos_sam_admin@fnal.gov
Date: Tue, 17 Jul 2007 08:57:06 -0500 (CDT)

Minos status 2007 Jul 17

General -

Enstore -

DCache -

slow ROOT DCache reads in root >= 5.12
Waiting for long term solution
and for a tagged root with pcanal's buffer option.
Core developers are working on this,
will probably need a new DCache release.

SAM -

IT 1894 Need 'sam locate' in C++ API

IT 2843 CHILD_BY_NAME selections not effective in all cases
Resolved, this works with v8 dbrowsers.

Continuing to declare Monte Carlo input files,
Need to change location for about 10K MC files declared last year,
and subsequently moved to new paths.

Oracle -

Refreshed development from production, thanks !
Cleared up messages when declaring Monte Carlo data

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 dbrowsers and clients to v8

Phillipe's patch makes i/o speed
now 3 to 4 x slower than root
5.10 (5.12 original was 30x
slower). Real fix requires
change to dCache.

From: Anil Kumar <akumar@fnal.gov>
Subject: DB Report
To: Adam Lyon <lyon@fnal.gov>, sam-design@fnal.gov
Date: Tue, 17 Jul 2007 08:49:31 -0500

D0 :

- July 10th Moving d0ofintl to 3par SAN. 8-10 hours downtime. - Done.
August 7th d0ofprdl will be moved to 3par SAN. 8-10 hours downtime.

Alerts :

- 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

CDF :

Alerts :

- CPU usage is very high on cdfopfpr2. Users/queries are being tracked.
- Information for: cdfopfpr2

Owner	Object	Type	Extents Used	Extents Allocated	Extents Left
SAMPRD	DSL_FULL_PATH_UK_I	INDEX	996	1000	4

Action : Increased the max extents to 2000

- Message=Tablespace [OPERATIONAL_01] is [87.15 percent] full

Action : Added 1GB

MINOS :

- 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 dl/sun. Also new kernel has been installed. CPU warnings still
exist.

- v6_4 index on create_date of data_files against minosdev - done
----- Original Message -----
From: "Adam Lyon" <lyon@fnal.gov>
To: <sam-design@fnal.gov>
Sent: Monday, July 16, 2007 5:00 PM
Subject: SAM Ops Meeting 9:30am Tuesday FCC1

> Hi,
>
> We'll have our usual SAM Operations Meeting Tuesday 2007.07.17 at 9:30am
> in FCC1 (88SAMDH).
>
> The usual agenda is...
>
> 1) Project News/Releases
> 2) D0
> 3) CDF
> 4) MINOS
> 5) DB
> 6) dCache/enstore
>
> Please send me reports by Tuesday morning. Thank you!

From: David Berg <berg@fnal.gov>
Subject: enstore/dcache report
To: sam-design@fnal.gov
Cc: enstore-admin@fnal.gov
Date: Mon, 16 Jul 2007 20:47:17 -0500 (CDT)

enstore/dcache report

Scheduled Downtimes:

- o STKen - Thur, Jul 19, 8 am to 4 pm
 - enstore s/w updates, after which enstore will be available
 - dcache - regularize configuration for version 1.7 so RPM-based patches can be properly applied in a timely manner
 - enable gPlazma, if it is working on the test stand

Operations:

- o d0en
 - nothing to report
- o cdfen
 - LTO3 library manager crashed, twice, was restarted each time.
 - Enstore scheduled downtime proceeded pretty much as planned:
 - + pnfs and dcache remained available during downtime
 - + cdfensrv0 (enstore database server) upgraded
 - + enstore s/w updated on all nodes
 - + enstore operation resumed by 11:15
 - Running low on LTO3 tapes. Borrowed 100 from CMS.
 - One LTO3 mover is still down
- o cdfdca
 - Two problems reported to DESY:
 - + restores from tape to read pools stall in wait state
 - + pattern of growing memory consumption on pool nodes
 - Many door/pool problems over the weekend, floods of unprocessed messages, etc. Quoting Alex, " We proceeded with deep restart of the all dcache including pool nodes and killing enqueued encp processes. After coming up system become stable."
 - Old nodes dying off (3 in one day)
- o stken
 - Running low on 9940B tapes. Recycling old enstore backups.
- o findca
 - Several write pool crashes during the week, correlated with activity of a particular user writing very large files using a Windows kerberized ftp client.

New LTO3 library manager available, but not tested fully.

Thanks,
David

> Date: Mon, 16 Jul 2007 17:00:35 -0500
> From: Adam Lyon <lyon@fnal.gov>
> Subject: SAM Ops Meeting 9:30am Tuesday FCC1
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> Hi,
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> Please send me reports by Tuesday morning. Thank you!
>
> See you all there.
>
> ---- Adam