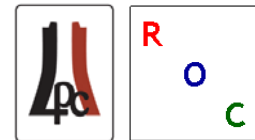




File Server (1)



- 3 TB is never enough

- HCAL TB06 group have been voracious consumers
 - The output of their analysis is >1.5 TB and growing.

On Saturday, I noticed the following, and then emailed Patrick:

```
cmsrocstor:/local/stage1
```

```
70880256 53669120 13610560 80% /stage1
```

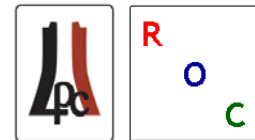
```
cmsrocstor:/local/raid1
```

```
3075853920 2856692032 62917504 98% /raid1
```

- The disks on dedicated nodes cmsroc11&12 were at capacity too.
- Sent email to Stefan, Jorgan, Efe and Shuichi asking for some cleanup. Patrick also looked into putting in some quotas.
- In hindsight, the latter was not a good idea, as it started a cascading chain of events which eventually required Patrick going to Feynman and manually rebooting the file server.



File Server (2)



- Stefan removed a sequence of runs from the file server, after verifying with Yujun that copies were identical in dCache.
- Before this mtg today, the current disk usage has improved somewhat:

```
cmsrocstor:/local/raid1
```

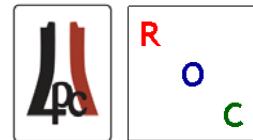
```
3075853920 2532641184 386968352 87% /raid1
```

- **Longer term solutions to ROC disk space?**

1. Patrick has added cmsroc_hcal to the cmstb04 group on the cmsroc nodes so that the HCAL TB06 group can write files to the disk /uscms1b_scratch/lpc1/cmstb04
2. I suggested that Shuichi may want a dedicated file server since they plan on taking more and more data for a couple of months.
3. Begin using the new file server purchased for LHC@FNAL



Group accounts



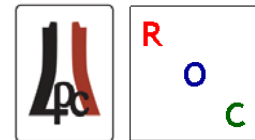
- The home areas of the cmsroc groups accounts are on a partition of the system disk of the file server instead of the raid disk. The system disk has 80 GB, with 65 GB allocated to the group home areas.
- One user was developing code in the cmsroc_hcal group account for TB06 and consuming over >40 GB of disk space. Said user has agreed to move to a cmsroc node scratch disk.
- Patrick has run a script to find and remove core dump files, and has recovered a lot of disk space.

```
cmsrocstor:/local/stage1
```

```
70880256 7258624 60021056 11% /stage1
```



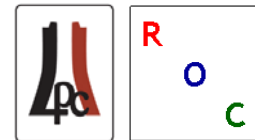
RunSummary, Process Summary



- Process Summary page stagnant since last Wed Nov 8th with Run 4568 because of the familiar domino effect
 - I run a script which does a RunSummary query every 15 minutes, and I send the output for Francisco to use. If the query fails, then I keep the last good query output.
 - I noticed Friday afternoon that the query was failing, in two ways:
 1. An Oracle DB - not a valid month
 2. An no space left on the device
 - I emailed Bill and Steve. The latter was fixed without comment. The former was still a problem, until Bill addressed it Monday afternoon. At least one user was using an old start/stop time in the runinfo parameter tables.
 - The Process Summary page was still not updating because after Bill's fix, the following string appeared at the top of the Run Summary output:
 - <I>All times are in UTC</I>
 - I have removed this offending line with a 'tail +2' command, so hopefully, we will move beyond this for now.



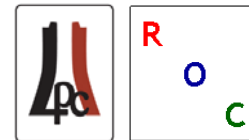
CMS Note Phase I



- I am about 50% through in terms of edits. This includes validating/fixing all of the references, the figures, the tables, acknowledgements, as well as the text.
- I added some additional text here and there to patch the sections together.
- I have put in a couple of very rough instructional paragraphs for HCAL. I got sidetracked by how the rest of you wrote, so my write-up would be in the same style.
- Pawel and I have determined which plots to use for HCAL, and I have all the eps figures in the working directory. I will send him the note with figures, and he will help with the histogram descriptions
- I am a day behind in my CVS updates, and still a few days away from finishing.



uscms.org/roc



- Easy to remember address!!
- Autoredirect from old link
- HCAL Catalogue is still linked to old address
- Added links to MTCC Expert, CMS Notes, Talks
- New user instructions has update for changing passwords



CMS FNAL Remote Operations Center



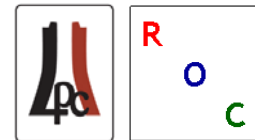
Located in the northwest corner on the 11th floor of FNAL Wilson Hall, the ROC currently provides remote access to the CMS data from test beams and calibrations. In the near future, physicists working from the ROC will participate in real-time data monitoring of the Magnet Test and Cosmic Challenge. For the LHC physics run beginning in 2007, physicists will be able to perform shift duties from the ROC, including the monitoring of detector subsystems, trigger rates, and data quality.

ROC	WBM	ELog	Mailing List	Meetings	MTCC Shifts Phase 2
	nippon.fnal.gov	WebCam	Runs	CVS	Talks
	DQM IGUANA GUI	EMU DQM	HCAL DQM	Pixel DQM	
	CMS Workbook	Accounts & Nodes	Directories / Glossaries	New User Instructions	Quick Guide
	LHC@FNAL	ROC Floor Plan	Photos	VRVS / ESnet	Google / Wikipedia
MTCC	ELog	Online Workbook	Live Event Display	Run Meetings	WebCams 1 / 2 / 3 / 4 / 5 6 / 7 / 8 / SX5
	Computing	DAQ Shifts	MTCC Expert	Run History	Trigger
LPC	CERN CVS	Computing	Cosmic Test	dCache	Linux PC Inventory
	LPC at Work	Maintenance & Operation	Meetings / Rooms	News	Remote Analysis Builder
	Resources Grid	Software Environment	Software Releases		
CMS	Page 1	Agendas / Map / Daily	CMS Times	HyperNews	Simba
	CMS Notes	CMSSW	CVS / LXR	Data Management	DQM
	Event Filter	Framework & EDM	IGUANA	Online Selection	Savannah
	Software	Storage Manager	Timing & Control	Trigger & DAQ	TWiki
	Controls / Safety	ECAL	Electronics	Tracker	XDAQ
LHC	Accelerators & Beams	Dashboard	Experiments	Schedule	
CERN	Bulletin / Courier	Document Server	Information Technology	Users' Office	
Fermilab	All Exp Mtg	Beam Status	Computing	List Server	Seminars
	Today	Training	Users' Office	Weather	VMS





CMS Runs Page



CMS Runs

- Web Based Monitoring
 - Run Summary (Phase I) (Phase II)
- CPT MTCC Monitoring
 - Process Summary
 - Castor File List
 - Castor Reverse File List
 - Directory Index
- FNAL ROC
 - Process Summary
 - Files in dCache
 - Text output of Run Summary
 - CSC Runs: (2335-2769) (3405-4608)
 - Directory Index
 - pre-MTCC: Test Beam, Cosmics, etc.
- PhEDEx
 - Transfer State
 - Full MTCC File List
 - Last 5000 Files Transferred to FNAL
 - CMS PNFS Files on Tape [Very large file!]
- MTCC
 - Page 1
 - MTCC Expert
 - Online Workbook
 - DAQ Run History

Last modified: Tue Nov 14 14:02:33 CST 2006

[archives](#)

[email Fermilab](#)

[Email ROC managers](#)

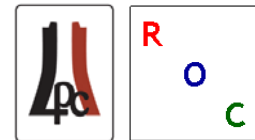
[Security, Privacy, Legal](#)

 Fermi National Accelerator Laboratory

- Added links to Ingo's CSC output
- New Phase I and Phase II query for RunSummary
- Removed poorly maintained bookkeeping info (Alan's scripts)
- Added new `_temporary_` solution to file listing provided by Jon Bakken. More on next slide.
- Let me know if you have any content you would like linked here or from the ROC page.



File Lists



I have thought of possible solution until this is better supported in a database model:
Every 3 hours there is a list of files generated that are on tape that you can get:
wget http://www-stken.fnal.gov/enstore/tape_inventory/COMPLETE_FILE_LISTING_cms

```
-bash-3.00$ grep MTCC COMPLETE_FILE_LISTING_cms | wc  
78251 626008 13816108
```

Jon's Email

This gives you the list you want I believe. There are 2 drawbacks that I know about:

- a. The frequency is every 3 hours. It's technically impossible to do it any faster using the current methods that the file is generated. I've asked for a list of the last day's files only - this seems possible on an hourly basis. People are getting back to me on this.
- b. This list is for files on tape only, not present in the dCache. But if you combine Yujun's phedex list, and the COMPLETE_FILE_LISTING_cms, then the only files you don't know about are the ones you write yourself via analysis programs.

- I have run this command, and parsed the output fairly easily to get a complete list of files on tape:
http://nippon.fnal.gov/stage1/cmsroc/Runs/pnfs_mtcc_filelist.txt