

What we still want to do in 2008 .. and then what's on in 2009

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Cosmic Ray Data Re-Processing

- suitable runs and datasets have been defined for re-processing
 - ▣ 305,000 files ~500 TB
- data is truly distributed, so all Tier-1's are needed
- we can at best replace 1 Tier-1 by CERN
- Processing times in Tier-1's may vary quite a bit
 - ▣ not similar CPU power at the Tier-1's
 - ▣ not optimized data distribution
- Conditions DB access and pre-staging were a problem, solved ?
- first tests ongoing now with pre-released software

Re-processing in Several Stages

- until yesterday:
 - Runs: 91890, 92045 in all Tier-1's
 - Release: AtlasTier0-14.4.0.2 (not final software)
 - test DPD making and db at each site, get first performance numbers
 - all sites now validated except NIKHEF/SARA, CNAF and ASGC
- still this week
 - lock db release and distribute to all T1 sites
 - install 14.5.0 in all T1 sites
 - fix sites that did not work yet
- next week
 - repeat 2 Runs test in all sites
 - submit full re-processing for all Runs
- NB
 - still need to distribute some more data (119 datasets)
 - most data on disk but some on tape
 - have to see how pre-staging will work

New release DDM High Rate Functional Test

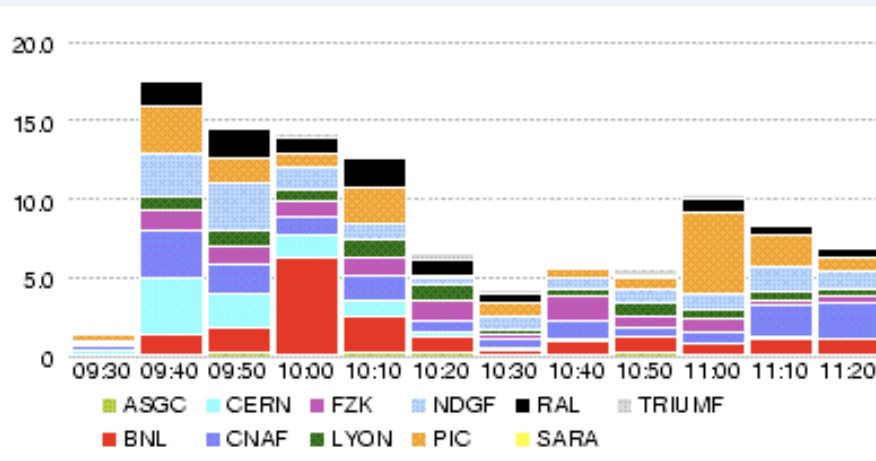
- Test of new version of Site Services
- The Site Services on atlddm15 and atlddm17 are currently stopped
- All DATADISK and DATATAPE and CALIB endpoints now served from atlddm29 with new software

- the past few we accumulated a lot of data in the T1's (on DATADISK)
- this morning we launched 1M T1-T1 file transfers all at once
- see <http://dashb-atlas-data-user.cern.ch/dashboard/request.py/site>
- see under Activities: Functional Test

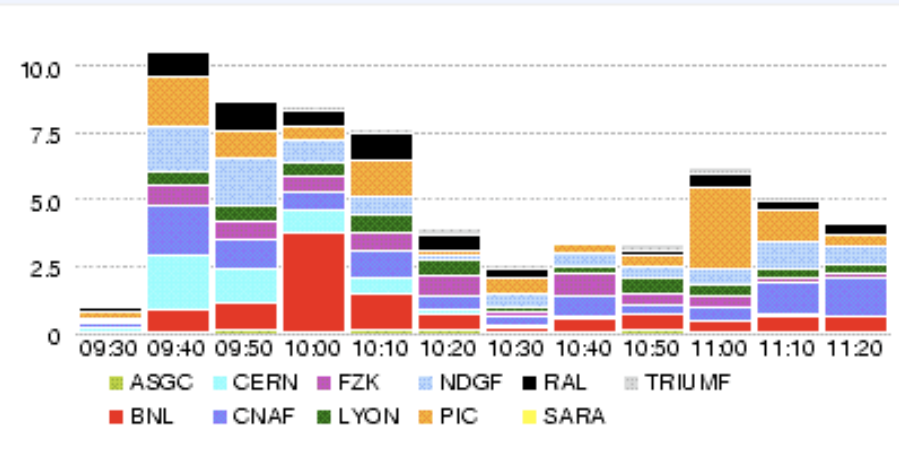
- we may want to repeat depending on what we learn
- big volume throughput test planned early next year

SFT of Dec.10 started at 10:00 hrs

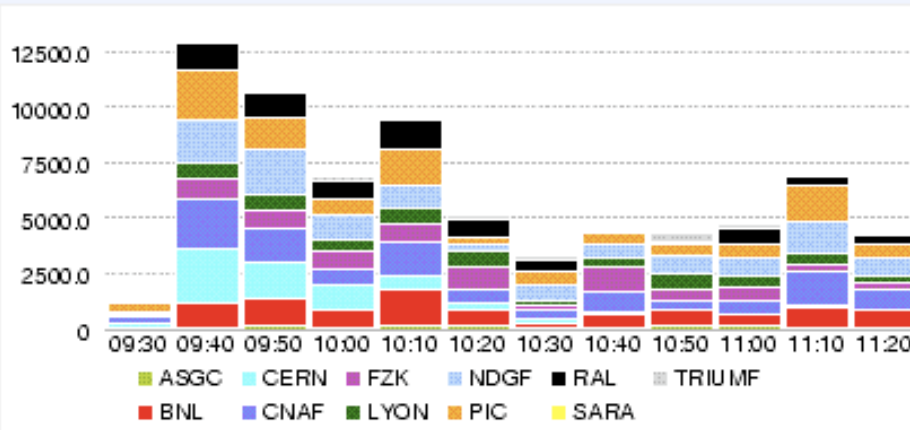
Throughput (MB/s)



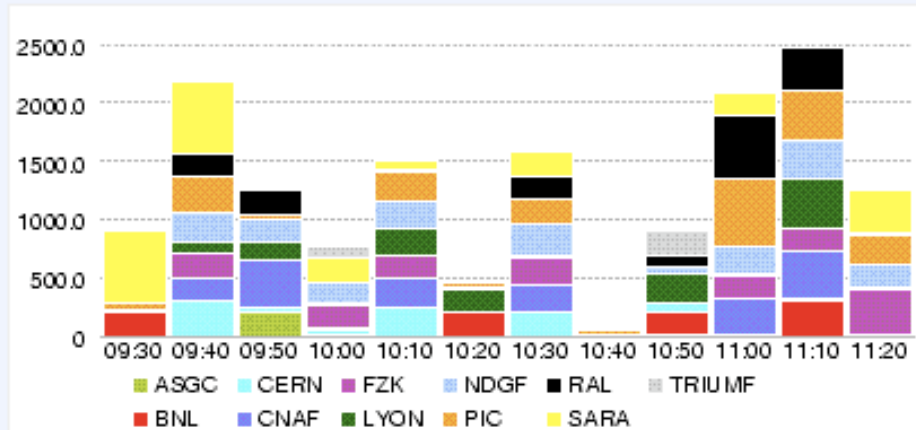
Data Transferred (GBytes)



Completed File Transfers



Total Number Transfer Errors



many small files

<i>Cloud</i>	<i>Transfers</i>			<i>Registrations</i>	
	<i>Efficiency</i>	<i>Throughput</i>	<i>Successes</i>	<i>Datasets</i>	<i>Files</i>
ASGC	85%	0 MB/s	1145	4	987
BNL	91%	4 MB/s	9289	40	6620
CERN	88%	1 MB/s	6751	12	7731
CNAF	86%	1 MB/s	11632	92	10934
FZK	82%	1 MB/s	7419	17	7171
LYON	81%	1 MB/s	6171	19	6744
NDGF	85%	1 MB/s	11590	91	11407
PIC	84%	2 MB/s	11334	81	11723
RAL	82%	1 MB/s	7607	51	7393
SARA	0%	0 MB/s	0	0	0
TRIUMF	85%	0 MB/s	1781	7	1625

SARA in scheduled downtime

Computing Operations over Christmas

- on best effort basis
- continue Monte Carlo production
- ADCoS shifters filled in for the whole period except 25/26 and 31/01
- continue Functional Tests
- expert on call for central operations
- no alarm tickets will be submitted
- re-processing tests will continue (depending ..)
- CERN
 - 24h operator in Computing Centre
 - Piquet service within 24h for machines with importance > 50
 - On call service (target is 4 hour response time in most cases) for FTS, LFC, Castor, SRM
 - The service can be triggered by using the castor operator alarm emailing list.

and then in 2009 ...

- further re-processing
 - ▣ pre-staging, db access, performance, DPD's, .. etc.
- more analysis challenges
 - ▣ performance, bandwidth, rfi, gsidcap, xrootd, WMS/Panda, .. etc.
- Panda service at CERN
- exclude tapes for users at CERN
 - ▣ other solutions for Users and Groups
- high volume throughput test
- Data merging into bigger (between 5-10 GB) files.
- Ready for Cosmic Ray Data Taking in April/May
- Ready for Colliding Beams in July/August

Organizational

- Post Mortem WS @CERN: January 19-23
 - T01/2/3 Jamboree on Thursday January 22
 - Shifters and other tutorials on Friday January 23