

-- JamieShiers - 17 Feb 2006

## Present

**Conference-call abandoned as too few sites/experiments had called in by timeout.**

## Summary of SC4 Workshop in Mumbai

A successful - and sometimes animated - SC4 workshop was held in Mumbai prior to CHEP 2006. Good progress was made on agreement in a number of areas, including storage management, services (support and operation) and the overall goals of the experiments for the SC4 service phase.

The slides - and conclusions of some areas - can be found on the agenda page (see under 'Hot Links' of the SC Wiki).

- **Reminder: for support issues, please use [helpdesk@ggusNOSPAMPLEASE.org](mailto:helpdesk@ggusNOSPAMPLEASE.org) (or [www.ggus.org](http://www.ggus.org)) from now on.**

## Experiment Production Plans

### ALICE

The first point of this year's PDC 06/SC4 plan is the scheduled rerun of SC3 T0 disk T1 disk transfers (max 150MB/s). These will be scheduled transfers through the FTD-FTS system and the target T1s are CNAF, IN2P3 Lyon, GridKa and RAL. Data generated during PDC 05 and available at CERN will be used. The amounts of data to be transferred to each centre will depend on the available storage capacity; however a possible scenario is to remove the transferred data on the target SE after it has been successfully transferred. The target duration of the exercise is 150 MB/s aggregate throughput during 7 days.

In parallel to the file transfers, we will continue to run jobs to test the stability of the complete system.

**The requirement for LFC as a local catalog at all sites was clarified.**

### GSSDATLAS

GSSDATLAS' SC4 requests are summarised as follows:

- March-April (pre-SC4): 3-4 weeks in for internal Tier-0 tests (Phase 0)
- April-May (pre-SC4): tests of distributed operations on a small testbed (the pre-production system)
- Last 3 weeks of June: Tier-0 test (Phase 1) with data distribution to Tier-1s (720MB/s + full ESD to BNL)
- 3 weeks in July: distributed processing tests (Part 1)
- 2 weeks in July-August: distributed analysis tests (Part 1)
- 3-4 weeks in September-October: Tier-0 test (Phase 2) with data to Tier-2s
- 3 weeks in October: distributed processing tests (Part 2)
- 3-4 weeks in November: distributed analysis tests (Part 2)

### CMS

**CMS emphasised the requirement to test the entire chain using files large than 2GB (to make sure that there are no hidden limitations still remaining...)**

**The timeline presented below needs to be aligned with the official SC4 schedule**

The overall timeline (copied from previous minutes - see CMS SC4 workshop presentation [?](#) for details) is as follows:

March 1st CMS expects to be able to integrate the analysis batch submit (CRAB) into gLite 3.0 pre-production as it's available. Plan for 6 weeks of functionality and stability testing. Total resource requirements are modest and can be met by the available pre- production sites

Integration of new CMS Production environment to submit to gLite 3.0 is expected on the same time frame.

This should allow CMS to exercise the two main processing applications needed for the remainder of SC4

March 15 CMS expects the release of PhEDEx that can utilize FTS to drive transfers.

April 1 CMS would like to begin low level continuous transfers between sites that support CMS. The goal is 20MB/s (2TB/day) continuous running. There are three groups identified to supervise the transfer systems. CMS has also developed a heartbeat monitor for PhEDEx.

There is also a ramp to demonstrate particular numbers of TB per day between tiers. Numbers should be agreed by next week.

April 15 Begin production scale running on gLite 3.0 with simulation and analysis applications. The goal by the end of the year is to have successfully demonstrated 50k-100k jobs submitted per day

June 1 We expect a 10TB sample of the new CMS Event Data Model data for transfer and analysis access

May 29 - June 12 Two week period of running to demonstrate the low level functionality of all elements of the CMS computing model.

July-August CMS Expects Production for the 2006 Data challenge at the rate of 25M events per month. Should not require more than the CMS share of computing facilities

September Preparations for Computing Software Analysis Challenge 2006 (CSA06)

October Execute CSA06.

## **LHCb**

In preparation for SC4 production phase (June on), LHCb foresee generating 100M B-physics + 100M min bias events (event generation, detector simulation & digitization). This will require 3.7 MSI2k · month required (~2-3 months) and 125 TB on MSS at Tier-0 (keep MC True). It is foreseen to start mid-March ramping up to full production by end-March.

## **Site Summaries**

- ASGC
  - ◆ join CMS phedex transfer with CASTOR-SC (with new version of phedex)
  - ◆ all Castor SC pool nodes migrate to kernel 2.6, will see if this help improving the performance during the CMS phedex rerun (previous we've reach about 80 MB/s)
  - ◆ new DQ2 deployed at ASGC, start Atlas DM this week.
  - ◆ complete internal applications for tape procurement (kind of late)
  - ◆ CMS T1 status report this Thu
  - ◆ usage report

- ◆ schedule for performance issue for SC4
- ◆ report of internal testing (disk I/O and disk/tape)
- ◆ trouble tracking with BNL third party replication, (CASTOR and dCache)

## Preparing for SC4 Disk-Disk and Disk-Tape Throughput Tests in April

These are the well-known rates that should be achieved in MB/s.

**It is important to emphasise that these are daily averages sustained over extended periods - not one-time peaks.**

Site	Disk-Disk	Disk-Tape
ASGC	100	75
TRIUMF	50	50
BNL	200	75
FNAL	200	75
NDGF	50	50
PIC	100	75
RAL	150	75
SARA	150	75
IN2P3	200	75
FZK	200	75
CNAF	200	75

As usual, we will first run the disk-disk throughput test and then disk-tape.

(In July, the disk-tape rates go up to full-nominal, i.e. the disk-disk rates in the table above).

## Move of SC Operations into Mainstream

(Mail from Nick (Nicholas.Thackray@cernNOSPAMPLEASE.ch) follows)

Dear ROC managers

As part of the move to bring the SC sites into the main grid operations stream (with the aim of eventually merging the production and SC sites at each institute) I would like to request that we put the tier-1 SC sites through the usual Site Registration Procedure, as is carried out for all sites joining the EGEE infrastructure

(a link to the policy document is here: <https://edms.cern.ch/document/503198/> ).

The list of Tier-1 SC sites (with associated contact details) is:

Site	Contact Address	ROC
ASCC	lcg-sc@listsNOSPAMPLEASE.grid.sinica.edu.tw	Asia-Pacific
BNL	bnl-sc@rcfNOSPAMPLEASE.rhic.bnl.gov	CERN
FNAL	cms-t1@fnalNOSPAMPLEASE.gov	CERN
GRIDKA	Service.Challenge@iwrNOSPAMPLEASE.fzk.de	Germany/CH
IN2P3	sc@ccNOSPAMPLEASE.in2p3.fr	France
INFN	sc@infNOSPAMPLEASE.it	Italy
NDGF	sc-tech@ndgfNOSPAMPLEASE.org	NE
PIC	lcg.sc@picNOSPAMPLEASE.es	SWE

RAL	lcg-support@gridppNOSPAMPLEASE.rl.ac.uk	UK/Ireland
SARA/NIKHEF	tier1-ams@saraNOSPAMPLEASE.nl	NE
TRIUMF	sc@triumfNOSPAMPLEASE.ca	CERN

The information required by the Site Registration Policy is:

- 1) The full name of the participating institute, applying to become a site.
- 2) The abbreviated name of the site to be published in the Information System.
- 3) The name, email address and telephone number of the Site manager.
- 4) The name, email address and telephone number of the Site Security Contact.
- 5) The email address of a managed list for contact with Resource Administrators at the site.
- 6) The email address of a managed list for contact with the site security incident response team.
- 7) The name of the ROC providing support for the site.

For point 2) I would like to request that we use the naming convention of SC-xxx-yyy where xxx is some easily recognized name for the institution and yyy is an optional addition to distinguish different sites at an institute (for example, SC-MyDesk-laptop and SC-MyDesk-desktop).

I would like to reach some agreement on this at next week's ROC managers meeting.

Best regards,

Nick

## AOB

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