

CCRC'08 Feb F2F report on Tier 1 Resources (1/4)

ASGC (last report of 6 Dec): Will reach 90% of 2008 cpu pledge in Jan and a few TB short in disk. 500 TB of tape to come but likely full pledge for 1 April.

CC-IN2P3 (last report of 4 Feb): no changes in January. 2008 cpu capacity delivery delayed to mid-Feb so not for phase 1 but ok for 1 April. Tape pledge ok for April and will have 50% of disk pledge. No date yet for remaining disk.

FZK/GridKa (last report of 1 Feb): all hardware for April 2008 is on site in burnin or waiting for final installation. October additional acquisitions are 1150 KSi2K cpu, 600 TB disk and 800 TB tape for ALICE and 380 TB disk for CMS to reach full 2008 pledges.

INFN/CNAF (last report 4 Feb): Now unlikely to have all disk capacity by April 1. More info soon.

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- NDGF (last report 1 Feb): All 2008 cpu in place by March. Will ramp up disk and tape following demand – confident they will not run out up to 2008 pledges.
- NL-T1 (last report 1 Feb): Will have full 2007 pledges installed in April and full 2008 pledges in November.
- PIC (last report 4 Feb): Solving power problems to reach 80% of 2008 cpu pledge by 1 April with remainder by May. Also 80% of disk by 1 April, rest by June. Ramp up tape capacity steadily to reach full pledge by October.
- RAL (last report 14 Jan): Were expecting 1PB of disk mid-Jan and MoU cpu pledge delivery end Feb. Tape media in place and last tape drive purchases about to be placed. Full pledges expected for 1 April.

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- TRIUMF (last report 2 Nov 2007): Full 2008 pledged resources available from January.
- US-ATLAS (last report 1 Feb): Following recent authorisation have ordered 3000 KSi2K cpu, 1PB disk (useable space) and 480 TB of tape media (LTO4). Will meet the April 2008 pledges on cpu and tape – planning for remaining disk in Summer – up to +1PB contingent on the real needs.
- US-CMS (last report 31 Jan): CPU capacity to reach pledge on time. Final disk orders Jan/Feb so probably useable by May. Tape media increase waiting on transition to LTO4.

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- For the February phase of CCRC'08 with a 55% 'accelerator on' model the Tier 1 cpu for reprocessing is $39590 \times 0.55 = 21775$ KSi2K needed. There have been January increases from ASGC and RAL but decreases (i.e. delays) from BNL and FNAL and currently 19041 KSi2K should be available. However ATLAS will now only perform Tier 1 reconstruction at a few selected sites so other experiments should be able to do more.
- For 1 April most sites will now have their full 2008 cpu pledges, a total of 36725 KSi2K. Largest missing is +2500 at NL-T1 due Nov.
- For disk and tape many sites will catch up later in the year as need expands: 2008 disk requirements are 23 PB and 15.5 PB expected for 1 April while 2008 tape requirements are 24 PB and 15 PB expected on 1 April.
- May run of CCRC'08 at 55% only requires +1PB of disk and +1.5PB of tape (mostly reusable) so should have no resource problems.
- The 1Q2008 and 2Q2008 'Capacity Available vs Required' spreadsheets linked to the LCG Planning web site have been brought up to date with these site reports.