

-- HarryRenshall - 06 Mar 2006

Last Updated 31.10.2007: Add link to PIC Site Capacity Growth Plans 2007/2008

Updated 31.7.2007: Add plans for Atlas M4 cosmics run 23 August to 2 September.

Updated 25.06.2007: Split off 2006 plans into a separate linked page and remove LHC engineering run.

Updated 04.06.2007: Extend LHCb requirements to the end of 2007 and reduce disk space requirements.

Updated 31.05.2007: Add in 3D database disk and server requirements and LHCb and ATLAS quantitative requirements for 3Q.

Updated 29.05.2007: Change date of CMS CSA07 from July to September and precise the expected data rates.

Updated 6.3.2007: Add plans for CMS 5-week cycles and CSA07 and indicators of LHCb dress-rehearsal.

Updated 1.03.2007: Precise plans for Atlas February/March Data Distribution tests (see <https://twiki.cern.ch/twiki/bin/view/Atlas/TierZero20071>). Change Atlas share from 5.5% to 4.5%.

Updated 15.01.2007: Move the ATLAS Tier0 export tests from 15 Jan to new preliminary date of end Feb.

Updated: 28.11.2006: For CMS request backup to tape by end of year of CSA06 data and add activity plans for December and preliminary plans for the first 6 months of 2007. CMS expect to use up to the MoU pledged resources per site in 2007.

Updated 17.11.2006: For ATLAS revise (downwards, especially in disk) MC requirements for first half of 2007.

Updated 2.11.2006: For ATLAS revise 4Q2006 MC requirements, add MC plans up to mid-2007 and add January 2007 Tier-0 and export exercise.

Updated 23.10.2006: add/change LHCB requirements for Oct to April 2007 from the spreadsheet of 26 Sep 2006.

Updated 01.09.2006: add LHCB requirements for Oct/Nov/Dec from the July spreadsheet.

Updated 21.08.2006: continue ATLAS data export till end September, move CMS raw data export to second half of August and clarify resource requirements and mid-November end date for CMS CSA06.

Updated 10.07.2006: replace LHCB spreadsheet with version of 7 July 2006

Updated 12 June to update Atlas June and CMS July plans.

Last update 22.05.2006: replace LHCB spreadsheet with version of 11 May 2006

Updated 8 May to add link to LHCB detailed planning spreadsheet to the header of the site LHCB Requirements.

PIC-Barcelona Site Capacity Growth Plans 2007/2008

PicPlans updated 31 October with email information of 29 October 2007

PIC-Barcelona Site Resource Requirements Timetable for 2006

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PIC-Barcelona Site Resource Requirements Timetable for 2007

Tier 1 PIC-Barcelona.	To provide 4.5% of ATLAS resources	To provide 6% of CMS resources	To provide 6% of LHCb resources	
Month	ATLAS Requirements	CMS Requirements	LHCb Requirements (See LHCb070529.xls)	Tier 0 Requirements
January 2007	Provide 95 KSi2K of cpu each month and an additional 6.9 TB of permanent disk plus an additional 7.7 TB of permanent tape storage for this quarter for MC event generation.	Provide 48 KSi2K of cpu per month and an additional 11 TB of permanent tape storage for this quarter for MC event generation.	Provide 115 KSi2K of cpu for reconstruction and analysis and MC event generation with an additional 2.4 TB of tape and 12.1 TB of disk.	CERN background disk-disk top up to 60MB/sec
February	Provide 95 KSi2K of cpu for MC event generation.	Provide 48 KSi2K of cpu for MC event generation.	Provide 115 KSi2K of cpu for reconstruction and analysis and MC event generation with an additional 2.4 TB of tape and 0.0 TB of disk.	CERN background disk-disk top up to 60MB/sec
March	Provide 95 KSi2K of cpu for MC event generation. From 12 March begin 2 week data distribution tests. Rampup to full 2008 rate from Tier 0 during first week. Raw from Tier 0 to reach 14 MB/s, ESD to reach 18 MB/s and AOD to reach 20 MB/s. Raw data to go to tape then can be recycled. ESD and AOD to go to disk and can be recycled but during last two weeks AOD should be distributed to associated Tier 2, requiring up to 5.2 TB of disk buffer, before being recycled. From 26 March participate in all-experiment service challenge milestone taking 65% of the average 2008 rate as above but without AOD redistribution for the next 7 days.	Provide 48 KSi2K of cpu for MC event generation. From 26 March for 7 days participate in WLCG multi-VO 65% milestone so import at 7 MB/s from CERN.	Provide 106 KSi2K of cpu for reconstruction and analysis and MC event generation with an additional 0.7 TB of tape and 0.0 TB of disk.	CERN background disk-disk top up to 60MB/sec
April	Provide 190 KSi2K of cpu each month and an additional 13.7 TB of permanent disk plus an additional 15.3 TB of	Provide 58 KSi2K of cpu and an additional 5 TB of permanent tape storage for MC event	Provide 106 KSi2K of cpu for reconstruction and analysis and MC event generation with	CERN background disk-disk top up to

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	permanent tape storage for this quarter for MC event generation. Provide a permanent 300 GB of disk space and 3 DB servers for ATLAS conditions and event tag databases.	generation. Provide a permanent 300 GB of disk space and 2 squid server nodes for CMS conditions databases.	an additional 0.7 TB of tape and 0.0 TB of disk. Provide a permanent 100 GB of disk space and 2 DB servers for LHCb conditions and LFC replica databases.	60MB/sec
May	Provide 190 KSi2K of cpu for MC event generation. Repeat February/March data distribution tests.	Provide 77 KSi2K of cpu and an additional 6 TB of permanent tape storage for MC event generation	Provide 19 KSi2K of cpu for stripping, reconstruction and analysis with an additional 0.1 TB of tape and 0.0 TB of disk.	CERN background disk-disk top up to 60MB/sec
June	Provide 190 KSi2K of cpu for MC event generation.	Provide 96 KSi2K of cpu and an additional 7.5 TB of permanent tape storage for MC event generation.	Start import of simulated raw data from CERN at 3.5 MB/s. Provide 19 KSi2K of cpu for stripping, reconstruction and analysis with an additional 0.1 TB of tape and 0.0 TB of disk.	CERN background disk-disk top up to 60MB/sec
July	Start preparations/testing for full scale (2008 running) dress rehearsal.	Provide 96 KSi2K of cpu and an additional 7.5 TB of permanent tape storage for MC event generation.	Continue import of simulated raw data from CERN at 3.5 MB/s. Provide 28 KSi2K of cpu for stripping, reconstruction and analysis with an additional 0.1 TB of tape and 0.3 TB of disk plus 3.3 TB of temporary disk.	CERN background disk-disk top up to 60MB/sec
August	Continue rampup of full scale dress rehearsal. From 23 August to 2 September take M4 cosmics data from Tier 0 for 50% of this time: peak rates of raw data at 6 MB/s, esd at 1 MB/s and whole aod at 4 MB/s. Total of 3 TB of raw to go to tape for recall in September reprocessing. Total of 3TB of esd+aod to go to permanent disk with aod redistribution to requesting Tier2. All data to be kept until M6 cosmics run at the end of December	Provide 96 KSi2K of cpu and an additional 7.5 TB of permanent tape storage for MC event generation.	Provide 11 KSi2K of cpu for stripping, reconstruction and analysis with an additional 0.1 TB of tape and 0.0 TB of disk.	CERN background disk-disk top up to 60MB/sec

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	2007. See PlanningM4			
September	Reach rates of full scale dress rehearsal. Take raw data from CERN (raw is to go to tape) at 14.4 MB/sec, ESD at 18 MB/sec and AOD at 20 MB/sec. Send and receive data from Tier-1 and Tier-2 according to the Megatable spreadsheet values (see link on first page of this Twiki).	Starting 10 September perform 30-day run of CSA07 at twice the rate of CSA06 and adding Tier-1 to Tier-1 and to Tier-2 transfers. Import prompt reco events from Tier-0 at 10 MB/s to go to tape to be deleted when site requires. Run 1500 jobs/day including re-reconstruction and store these data on disk until they have been exported to other Tier-1 at 12 MB/s. Import similar data from other Tier-1 at 42 MB/s. Export samples to Tier-2 at 20 MB/s and import Monte-Carlo from Tier-2 to Tape1Disk0 class storage at 10 MB/s.	Provide 36 KSi2K of cpu for stripping, reconstruction and analysis with an additional 0.8 TB of tape and 0 TB of disk.	CERN background disk-disk top up to 60MB/sec
October	Stable running of full scale dress rehearsal.	Continue and finish CSA07.	Provide 19 KSi2K of cpu for stripping, reconstruction and analysis with an additional 0.5 TB of tape and 0 TB of disk.	CERN background disk-disk top up to 60MB/sec
November	Provide a permanent 1000 GB of disk space and add DB servers if needed for ATLAS conditions and event tag databases.		Provide a permanent 300 GB of disk space and add DB servers if needed for LHCb conditions and LFC replica databases. Provide 11 KSi2K of cpu for stripping, reconstruction and analysis with an additional 0.1 TB of tape and 0 TB of disk.	CERN background disk-disk top up to 60MB/sec
December			Provide 11 KSi2K of cpu for stripping, reconstruction and analysis with an additional 0.1 TB of tape and 0 TB of disk.	CERN background disk-disk top up to 60MB/sec

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