

-- HarryRenshall - 06 Mar 2006

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

Last Updated 26.7.2007: 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 05.06.2007: Add in 3D database disk and server requirements and ATLAS quantitative requirements for 3Q.

Updated 27.02.2007: Precise plans for Atlas February/March Data Distribution tests (see <https://twiki.cern.ch/twiki/bin/view/Atlas/TierZero20071>). Change Atlas share from 24% to 23%.

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

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 15 August to continue ATLAS data export till end September.

Updated 12 June to update Atlas June plans.

BNL-Brookhaven Site Capacity Growth Plans 2007/2008

BnlPlans updated 31 October with email information of 19 October 2007

BNL-Brookhaven Site Resource Requirements Timetable for 2006/2007

BNLTimeTable2006

BNL-Brookhaven Site Resource Requirements Timetable for 2007

Tier 1 BNL-Brookhaven.	To provide 23% of Atlas resources	
Month	Atlas Requirements	Tier 0 Requirements
January 2007	Provide 416 KSi2K of cpu each month and an additional 14.3 TB of permanent disk plus an additional 27.5 TB of permanent tape storage for this quarter for MC event generation.	CERN background disk-disk top up to 200MB/sec
February	Provide 416 KSi2K of cpu for MC event generation. From 26 Feb begin 4 week data distribution tests. Rampup to full 2008 rate from Tier 0 during first week. Raw from Tier 0 to reach 74 MB/s, ESD to reach 200 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.	CERN background disk-disk top up to 200MB/sec
March		

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	Provide 416 KSi2K of cpu for MC event generation. Continue 4 week data distribution tests till 26 March then participate in all-experiment service challenge milestone taking 65% of the average 2008 rate as in February but without AOD redistribution for the next 7 days.	CERN background disk-disk top up to 200MB/sec
April	Provide 831 KSi2K of cpu each month and an additional 28.7 TB of permanent disk plus an additional 34.5 TB of 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.	CERN background disk-disk top up to 200MB/sec
May	Provide 831 KSi2K of cpu for MC event generation. Repeat February/March data distribution tests.	CERN background disk-disk top up to 200MB/sec
June	Provide 831 KSi2K of cpu for MC event generation.	CERN background disk-disk top up to 200MB/sec
July	Start preparations/testing for October full scale (2008 running) dress rehearsal.	CERN background disk-disk top up to 200MB/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 (whole sample) at 140 MB/s, esd at 8 MB/s (whole sample) and whole aod at 4 MB/s. Total of 67 TB of raw to go to tape for recall in September reprocessing. Total of 6TB 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 2007. See PlanningM4	CERN background disk-disk top up to 200MB/sec
September	Reach rates of full scale dress rehearsal. Take raw data from CERN (raw is to go to tape) at 73.6 MB/sec, ESD at 200 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).	CERN background disk-disk top up to 200MB/sec
October	Stable running of full scale dress rehearsal.	CERN background disk-disk top up to 200MB/sec
November	Provide a permanent 1000 GB of disk space and add DB servers if needed for ATLAS conditions and event tag databases.	CERN background disk-disk top up to 200MB/sec
December		CERN background disk-disk top up to 200MB/sec

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