

PICTimeTable2006 < LCG < TWiki

-- HarryRenshall - 26 Jun 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
March 2006				
April	Provide 53 KSi2K of cpu for MC event generation and 3 TB of disk and 8 TB of tape for MC data for this quarter	20 MB/sec aggregate Phedex (FTS) traffic to/from temporary disk. Data to tape from Tier 0 at 30 MB/sec (may be part of SC4)	Provide 25 KSi2K of cpu for MC event generation	3rd to 16th CERN disk-disk at 60 MB/sec. 18th to 24th CERN disk-tape at 60 MB/sec
May	Provide 53 KSi2K of cpu for MC event generation	20 MB/sec aggregate Phedex (FTS) traffic to/from temporary disk	Provide 25 KSi2K of cpu for MC event generation	CERN background disk-disk top up to 60MB/sec
June	Provide 53 KSi2K of cpu for MC event generation. From 19 June to 7 July T0 to T1 tests take 17.6 MB/sec "Raw" to tape (rate to be reported), ESD at 11.0 MB/s to disk and AOD at 20 MB/s to disk from Tier 0 (total rate 48.6 MB/s). These data can be deleted after 24 hours	20 MB/sec aggregate Phedex (FTS) traffic to/from temporary disk. SC3 functionality rerun. Run 1250 jobs/day at end June	Get 1.4 MB/sec of "raw" data from CERN and store 5 TB on tape. Reconstruct and strip these data on 21.5 KSi2K of cpu. Provide 3.5 KSi2K of cpu for MC event generation with 0.5 TB to tape	CERN background disk-disk top up to 60MB/sec
July	Provide 57 KSi2K of cpu for MC event generation and 5 TB of disk and 11 TB of tape for MC data for this quarter. "Raw" reconstruction setting up - stagein from tape using 1-2 drives	20 MB/sec aggregate Phedex (FTS) traffic to/from temporary disk. Monte Carlo from Tier 2 incoming sent on to CERN. Test Tier 2 to Tier 1 transfers at 10 MB/sec per Tier 2. Last 2 weeks take 'raw' data from CERN to tape at 20 MB/s	Get 1.4 MB/sec of "raw" data from CERN and store 5 TB on tape. Reconstruct and strip these data on 21.5 KSi2K of cpu. Provide 3.5 KSi2K of cpu for MC event generation with 0.5 TB to tape	CERN background disk-disk top up to 60MB/sec
August	Provide 57 KSi2K of cpu for MC event generation. Two slots of 3 days of "raw" reconstruction - stagein from tape using 1-2 drives. Analysis tests - 20 MB/sec incoming - will include scalability tests and prefers to be only Atlas grid activity. Take 17.6 MB/sec "Raw" to tape (rate to be reported), ESD at 11.0 MB/s to disk	20 MB/sec aggregate Phedex (FTS) traffic to/from temporary disk. Monte Carlo from Tier 2 incoming sent on to CERN. Test Tier 2 to Tier 1 transfers at 10 MB/sec per Tier 2. Last 2 weeks (after high rate T0-T1 disk-disk tests) take 'raw' data from CERN to tape at 20 MB/s (data can be	Analysis of reconstructed data. Provide 25 KSi2K of cpu for MC event generation with 1 TB to tape	CERN background disk-disk top up to 60MB/sec

	and AOD at 20 MB/s to disk from Tier 0 (total rate 48.6 MB/s). These data can be deleted after 24 hours	deleted after 24 hours).		
September	Provide 57 KSi2K of cpu for MC event generation. Take 17.6 MB/sec "Raw" to tape (rate to be reported), ESD at 11.0 MB/s to disk and AOD at 20 MB/s to disk from Tier 0 (total rate 48.6 MB/s). These data can be deleted after 24 hours	20 MB/sec aggregate Phedex (FTS) traffic to/from temporary disk. Till mid-September take 'raw' data from CERN to tape at 20 MB/s (data can be deleted after 24 hours). From mid-September ramp up to 1 October start of CSA06 at 625 jobs/day (requiring 150 KSi2K of cpu and a total of 50 TB of disk storage).	Provide 25 KSi2K of cpu for analysis of reconstructed data and MC event generation with 1 TB additional to tape	CERN background disk-disk top up to 60MB/sec.
October	Reprocessing tests - 20 MB/sec incoming	20 MB/sec aggregate Phedex (FTS) traffic to/from temporary disk. Continue CSA06 at 625 jobs/day (requiring 150 KSi2K of cpu and a total of 50 TB of disk storage over CSA06).	Provide 69 KSi2K of cpu for reconstruction and analysis and MC event generation with an additional 1.4 TB of tape and 0.3 TB of disk.	CERN background disk-disk top up to 60MB/sec
November	Provide 71 KSi2K of cpu and an additional 1.7 TB of permanent disk and 1.2 TB of temporary (till reconstruction is run) disk plus an additional 1.9 TB of permanent tape storage for MC event generation. Analysis tests - 20 MB/sec incoming at the same time as reprocessing continues	20 MB/sec aggregate Phedex (FTS) traffic to/from temporary disk. Demonstrate 60 MB/sec from Tier 0 to tape (would like this to be an SC4 activity). Continue CSA06 at 625 jobs/day (requiring 150 KSi2K of cpu and a total of 50 TB of disk storage over CSA06) till mid-November.	Provide 72 KSi2K of cpu for reconstruction and analysis and MC event generation with an additional 2.7 TB of tape and 0.9 TB of disk.	CERN background disk-disk top up to 60MB/sec

December Provide 71 KSi2K of cpu and an additional 1.7 TB of permanent disk and 1.2 TB of temporary (till reconstruction is run) disk plus an additional 1.9 TB of permanent tape storage for MC event generation. Backup the October CSA06 disk files of 50TB to new permanent tape storage. Provide 16 KSi2K of cpu and an additional 1.3 TB of permanent tape storage for MC event generation. Provide 114 KSi2K of cpu for reconstruction and analysis and MC event generation with an additional 2.4 TB of tape and 10.3 TB of disk. CERN background disk-disk top up to 60MB/sec

This topic: LCG > PICTimeTable2006

Topic revision: r1 - 2007-06-26 - HarryRenshall



Copyright &© 2008-2020 by the contributing authors. All material on this collaboration platform is the property of the contributing authors.

Ideas, requests, problems regarding TWiki? Send feedback