

IN2P3TimeTable2006 < LCG < TWiki

-- HarryRenshall - 25 Jun 2007

Tier 1 IN2P3-Lyon.	To provide 9% of ALICE Resources	To provide 13% of ATLAS resources	To provide 10% of CMS resources	To provide 27% of LHCB resources	
Month	ALICE Requirements	ATLAS Requirements	CMS Requirements	LHCB Requirements (See LHCb070529.xls)	Tier 0 Requirements
March 2006					
April	Run Monte Carlo jobs on 220 KSi2K of cpu with average rate of 7 MB/sec sending these data back to CERN. Network/reconstruction stress test: run 22400 jobs/day on 220 KSi2K of cpu with 7 MB/sec rate from Tier 0	Provide 133 KSi2K of cpu for MC event generation and 8 TB of disk and 20 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 15 MB/sec (may be part of SC4)	Provide 115 KSi2K of cpu for MC event generation	3rd to 16th CERN disk-disk at 200 MB/sec. 18th to 24th CERN disk-tape at 75 MB/sec
May		Provide 133 KSi2K of cpu for MC event generation	20 MB/sec aggregate Phedex (FTS) traffic to/from temporary disk	Provide 115 KSi2K of cpu for MC event generation	CERN background disk-disk top up to 200 MB/sec
June		Provide 133 KSi2K of cpu for MC event generation. From 19 June to 7 July T0 to T1 tests take 43.2 MB/sec "Raw" to tape (rate to be reported), ESD at 27.0 MB/s to disk and AOD at 20 MB/s to disk from Tier 0 (total rate 90.2 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 2500 jobs/day at end June	Get 6.3 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 93.5 KSi2K of cpu for MC event generation with 3.5 TB to tape	CERN background disk-disk top up to 200 MB/sec
July	From 24 July to 6 August take 60 MB/s of raw and ESD data (20% of total) from CERN. These data can be deleted immediately. Tier 1 to Tier 1 and Tier 2 tests. Repeat April network/reconstruction stress test.	Provide 144 KSi2K of cpu for MC event generation and 11 TB of disk and 27 TB of tape for MC data for this quarter. "Raw" reconstruction	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	Get 6.3 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 93.5 KSi2K of cpu for MC event	CERN background disk-disk top up to 200 MB/sec

IN2P3TimeTable2006 < LCG < TWiki

		setting up - stagein from tape using 1-2 drives	transfers at 10 MB/sec per Tier 2. Last 2 weeks take 'raw' data from CERN to tape at 25 MB/s	generation with 3.5 TB to tape	
August	Continue the July export tests until the 60 MB/s rate has been reached for a sufficient period.	Provide 144 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 43.2 MB/sec "Raw" to tape (rate to be reported), ESD at 27.0 MB/s to disk and AOD at 20 MB/s to disk from Tier 0 (total rate 90.2 MB/s). These data can be deleted after 24 hours	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 25 MB/s (data can be deleted after 24 hours).	Analysis of reconstructed data. Provide 115 KSi2K of cpu for MC event generation with 4 TB to tape	CERN background disk-disk top up to 200 MB/sec
September	Scheduled analysis tests. 10.5 TB of local data, run 16000 jobs/day on 220 KSi2K of cpu. Aggregate internal worker node rate of 2.7 GB/sec.	Provide 144 KSi2K of cpu for MC event generation. Take 43.2 MB/sec "Raw" to tape (rate to be reported), ESD at 27.0 MB/s to disk and AOD at 20 MB/s to disk from Tier 0 (total rate 90.2 MB/s). These data can be	20 MB/sec aggregate Phedex (FTS) traffic to/from temporary disk. Till mid-September take 'raw' data from CERN to tape at 25 MB/s (data can be deleted after 24 hours). From mid-September ramp up to 1 October start of	Provide 115 KSi2K of cpu for analysis of reconstructed data and MC event generation with an additional 3.5 TB to tape	CERN background disk-disk top up to 200 MB/sec.

IN2P3TimeTable2006 < LCG < TWiki

		deleted after 24 hours	CSA06 at 750 jobs/day (requiring 180 KSi2K of cpu and a total of 70 TB of disk storage).		
October	Continue the data export tests until the 60 MB/s rate has been reached for a sufficient period. Scheduled analysis tests.	Reprocessing tests - 20 MB/sec incoming	20 MB/sec aggregate Phedex (FTS) traffic to/from temporary disk. Continue CSA06 at 750 jobs/day (requiring 180 KSi2K of cpu and a total of 70 TB of disk storage over CSA06).	Provide 254 KSi2K of cpu for reconstruction and analysis and MC event generation with an additional 2.6 TB of tape and 0.3 TB of disk.	CERN background disk-disk top up to 200MB/sec
November	Continue the data export tests until the 60 MB/s rate has been reached for a sufficient period. Scheduled analysis tests.	Provide 175 KSi2K of cpu and an additional 2.7 TB of permanent disk and 2.8 TB of temporary (till reconstruction is run) disk plus an additional 4.5 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 30 MB/sec from Tier 0 to tape (would like this to be an SC4 activity). Continue CSA06 at 750 jobs/day (requiring 180 KSi2K of cpu and a total of 70 TB of disk storage over CSA06) till mid-November	Provide 257 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 200MB/sec

December | Continue the data export tests until the 60 MB/s rate has been reached for a sufficient period. Scheduled analysis tests. | Provide 175 KSi2K of cpu and an additional 2.7 TB of permanent disk and 2.8 TB of temporary (till reconstruction is run) disk plus an additional 4.5 TB of permanent tape storage for MC event generation. | Backup the October CSA06 disk files of 70TB to new permanent tape storage. Provide 32 KSi2K of cpu and an additional 2.5 TB of permanent tape storage for MC event generation. | Provide 415 KSi2K of cpu for reconstruction and analysis and MC event generation with an additional 4.4 TB of tape and 10.3 TB of disk. | CERN background disk-disk top up to 200MB/sec |

This topic: LCG > IN2P3TimeTable2006
 Topic revision: r1 - 2007-06-25 - HarryRenshall



Copyright &© 2008-2021 by the contributing authors. All material on this collaboration platform is the property of the contributing authors.
or Ideas, requests, problems regarding TWiki? use [Discourse](#) or [Send feedback](#)