

ATLAS Revised FY09 & FY10 Quarterly Requirements



	kHS06 / PB / PB	OLD				NEW							
		Pledge 2008 (C-RRB Fall 2007)	Pledge 2009 (C-RRB Fall 2008)	Req. 2009 (C-RRB Fall 2008)	Req. 2010 (C-RRB Fall 2008)	Requirement 2009-Q2	Requirement 2009-Q3	Requirement 2009-Q4	Requirement 2010-Q1	Requirement 2010-Q2	Requirement 2010-Q3	Requirement 2010-Q4	Requirement 2011-Q1
Tier-0	CPU	14.1	16.2	30.4	30.4	12.7	18	30.4	30.4	30.4	30.4	30.4	30.4
	Disk	0.15	0.26	0.65	0.7	0.41	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	Tape	2.8	6.2	9.7	14.6	3.8	5.1	6.4	7.8	8.9	9.9	9.9	9.9
CAF	CPU	8.6	10.2	23.2	37.4	7.6	14.2	20.8	27.4	37.4	37.4	37.4	37.4
	Disk	1.1	1.8	3.3	4.5	0.76	2	2.5	2.9	3.4	3.9	4.2	4.4
Tier-1	CPU	76.8	120.9	113.7	234.5	88.8	90	90	90	177	177	227	227
	Disk	10.9	19.9	20.9	41.3	7	19.6	21.7	23.8	27.5	32	34.3	36.7
	Tape	7.7	14.7	15.8	22.7	8.1	9.3	10.3	11.3	12.5	13.7	14.2	14.8
Tier-2	CPU	70.1	107.7	108	242.5	108	108	108	108	240	240	240	240
	Disk	6.3	10.7	13.3	24.8	6.8	9.2	11.4	13.3	17.5	21.5	23.1	24.8

Total ATLAS Resource Requirements

Tier-1	CPU	17.7	27.8	26.2	53.9	20.4	20.7	20.7	20.7	40.7	40.7	52.2	52.2
	Disk	2.5	4.6	4.8	9.5	1.6	4.5	5.0	5.0	6.3	6.3	7.9	7.9
	Tape	1.8	3.4	3.6	5.2	5.2	1.9	2.1	2.4	2.6	2.9	3.3	3.4
Tier-2	CPU	16.1	24.8	24.9	55.8	24.8	24.8	24.8	24.8	55.2	55.2	55.2	55.2
	Disk	-1.5	-2.5	-3.1	-5.7	-1.6	-2.1	-2.6	-3.1	-4.0	-4.9	-5.3	-5.7

U.S. share derived from total ATLAS Resource Requirements (U.S. share is 23%)

EACH	CPU	[kHS-06]					4.96	4.96	4.96	11.04	11.04	11.04	11.04
Tier-2	Disk	[PB]					0.42	0.52	0.62	0.80	0.98	1.06	1.14

Previous Pledged Capacities at the Tier-1 and the Tier-2s
(now obsolete)

US-ATLAS Tier1	2007	2008	2009	2010	2011	2012	2013
CPU (kSI2K)	2560	4844	7337	12765	18193	21132	32200
Disk (Tbytes)	1100	3138	5822	11637	16509	16965	27600
Tape (Tbytes)	603	1715	3277	6286	9820	15085	18630
Nominal WAN (Mbits/sec)	9952	19904	29856	39808	39808	39808	39808
USA, Northeast ATLAS T2	2007	2008	2009	2010	2011	2012	2013
CPU (kSI2K)	394	685	1049	1592	1966	3990	5474
Disk (Tbytes)	103	244	445	727	1024	1851	2578
USA, Southwest ATLAS T2	2007	2008	2009	2010	2011	2012	2013
CPU (kSI2K)	998	1386	1734	1966	2514	3990	5474
Disk (Tbytes)	143	256	328	650	1103	1851	2578
USA, Midwest ATLAS T2	2007	2008	2009	2010	2011	2012	2013
CPU (kSI2K)	826	1112	978	1262	1785	3990	5474
Disk (Tbytes)	213	282	358	362	512	1851	2578
USA, Great Lakes ATLAS T2	2007	2008	2009	2010	2011	2012	2013
CPU (kSI2K)	581	965	1406	1670	2032	3990	5474
Disk (Tbytes)	155	322	542	709	914	1851	2578
USA, SLAC ATLAS T2	2007	2008	2009	2010	2011	2012	2013
CPU (kSI2K)	550	820	1202	1191	1685	3990	5474
Disk (Tbytes)	228	462	794	1034	1462	1851	2578
US ATLAS FACILITY	2007	2008	2009	2010	2011	2012	2013
CPU (kSI2K)	5909	9792	13706	20446	28175	41080	59570
Disk (Tbytes)	1942	4702	8289	15119	21524	26220	40468

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