



WLCG - Tier-2 Accounting Summary

March 2008

Efficiency factor for Tier-2 sites - utilisation 60% of pledge as specified in TDR

CPU usage in month (KSI2K-Hrs)

Federation	2007 CPU Pledge (KSI2K)	pledge inc. efficiency (KSI2K- Hrs)	Site(s)	ALICE	ATLAS	CMS	LHCb	Total	delivered as % of pledge
Australia, University of Melbourne			Australia-UNIMELB-LCG2		1,392			1,392	
AU-ATLAS	40	17,856			1,392			1,392	8%
Austria, Austrian Tier-2 Federation			HEPHY-UIBK		4,619			4,619	
AT-HEPHY-VIENNA-UIBK	420	187,488			4,619			4,619	2%
Belgium, Belgian Tier-2 Federation			BEgrid-ULB-VUB			22,756		22,756	
			BelGrid-UCL			4,945		4,945	
BE-TIER2	600	267,840				27,701		27,701	10%
China, IHEP, Beijing			BEIJING-LCG2		17,241	6,202		23,443	
CN-IHEP	400	178,560			17,241	6,202		23,443	13%
Czech Rep., FZU AS, Prague			praguelcg2	21,075	4,867			25,942	
			prague_cesnet_lcg2	3	7,323			7,326	
CZ-Prague-T2	80	35,712		21,078	12,190			33,268	93%
Finland, NDGF/HIP Tier2			HIP-T2						
FI-HIP-T2	187	83,477							
France, CC-IN2P3 AF			IN2P3-CC-T2	3,830	656,073	144,712	31,460	836,075	
FR-IN2P3-CC-T2	320	142,848		3,830	656,073	144,712	31,460	836,075	585%
France, GRIF, Paris			GRIF	52,505	646,233	22,036	4,908	725,682	
FR-GRIF	583	260,251		52,505	646,233	22,036	4,908	725,682	279%
France, LAPP, Annecy			IN2P3-LAPP		124,348		9,467	133,815	
FR-IN2P3-LAPP	350	156,240			124,348		9,467	133,815	86%
France, LPC, Clermont-Ferrand			IN2P3-LPC	28	118,031		764	118,823	
FR-IN2P3-LPC	450	200,880		28	118,031		764	118,823	59%
France, SUBATECH, Nantes			IN2P3-SUBATECH	100,894				100,894	
FR-IN2P3-SUBATECH	224	99,994		100,894				100,894	101%
Germany, GSI, Darmstadt			GSI-LCG2	6,339				6,339	
DE-GSI	260	116,064		6,339				6,339	5%
Germany, ATLAS Federation FR/W			UNI-FREIBURG		14,784			14,784	
			wuppertalprod		88,267			88,267	
DE-FREIBURGWUPPERTAL	80	35,712			103,051			103,051	289%
Germany, ATLAS Federation, Munich			LRZ-LMU		149,028			149,028	
			MPPMU		31,968			31,968	
DE-MCAT	100	44,640			180,996			180,996	405%

Federation	2007 CPU Pledge (KSI2K)	pledge inc. efficiency (KSI2K- Hrs)	Site(s)	ALICE	ATLAS	CMS	LHCb	Total	delivered as % of pledge
Germany, ATLAS Federation, DESY			DESY-HH		23,250			23,250	
			DESY-ZN		169,895			169,895	
DE-DESY-ATLAS-T2	80	35,712			193,145			193,145	541%
Germany, CMS Federation			DESY-HH			15,535		15,535	
			DESY-ZN						
			RWTH-Aachen			212,396		212,396	
DE-DESY-RWTH-CMS-T2	500	223,200				227,931		227,931	102%
Hungary, HGCC Federation			BUDAPEST	13,809	532	30,378	158	44,877	
			ELTE						
HU-HGCC-T2	200	89,280		13,809	532	30,378	158	44,877	50%
India, TIFR, Mumbai			INDIACMS-TIFR			2		2	
IN-INDIACMS-TIFR	130	58,032				2		2	0%
India, VECC/SINP, Kolkata			IN-DAE-VECC-01	3,053				3,053	
IN-DAE-KOLKATA-TIER2	282	125,885		3,053				3,053	2%
Israel, HEP-IL Tier-2 Federation			WEIZMANN-LCG2		1		1	2	
			TAU-LCG2	1	569		358	928	
IL-HEPTier-2	61	27,230		1	570		359	930	3%
Italy, INFN ALICE Federation			INFN-BARI	4,656				4,656	
			INFN-CATANIA	35,930				35,930	
			INFN-FRASCATI						
			INFN-LNL-2	9,120				9,120	
			INFN-MILANO						
			INFN-NAPOLI-ATLAS	6				6	
			INFN-PISA	7				7	
			INFN-ROMA1						
			INFN-ROMA1-CMS						
			INFN-TORINO	10,622				10,622	
IT-ALICE-federation	550	245,520		60,341				60,341	25%
Italy, INFN ATLAS Federation			INFN-BARI		2,600			2,600	
			INFN-CATANIA						
			INFN-FRASCATI		39			39	
			INFN-LNL-2		27,449			27,449	
			INFN-MILANO		2,344			2,344	
			INFN-NAPOLI-ATLAS		6,774			6,774	
			INFN-PISA		18,452			18,452	
			INFN-ROMA1		8,141			8,141	
			INFN-ROMA1-CMS		1,833			1,833	
			INFN-TORINO		9,936			9,936	
IT-ATLAS-federation	400	178,560			77,568			77,568	43%

Federation	2007 CPU Pledge (KSI2K)	pledge inc. efficiency (KSI2K- Hrs)	Site(s)	ALICE	ATLAS	CMS	LHCb	Total	delivered as % of pledge
Italy, INFN CMS Federation			INFN-BARI			15,050		15,050	
			INFN-CATANIA						
			INFN-FRASCATI						
			INFN-LNL-2			134,471		134,471	
			INFN-MILANO						
			INFN-NAPOLI-ATLAS			1		1	
			INFN-PISA			122,691		122,691	
			INFN-ROMA1						
			INFN-ROMA1-CMS			3,048		3,048	
			INFN-TORINO						
IT-CMS-federation	400	178,560				275,261		275,261	154%
Italy, INFN LHCb Federation			INFN-BARI				1,864	1,864	
			INFN-CATANIA				143	143	
			INFN-FRASCATI						
			INFN-LNL-2				364	364	
			INFN-MILANO				60	60	
			INFN-NAPOLI-ATLAS				519	519	
			INFN-PISA				344	344	
			INFN-ROMA1						
			INFN-ROMA1-CMS						
			INFN-TORINO				147	147	
IT-LHCb-federation	150	66,960					3,441	3,441	5%
Japan, ICEPP, Tokyo			TOKYO-LCG2		259,386			259,386	
JP-Tokyo-ATLAS-T2	1,000	446,400			259,386			259,386	58%
Norway, UNINETT SIGMA Tier-2			NO-NORGRID-T2						
NO-NORDGRID-T2									
Pakistan, Pakistan Tier-2 Federation			NCP-LCG2		599	61	378	1,038	
			PAKGRID-LCG2		243		50	293	
PK-CMS-T2	410	183,024			842	61	428	1,331	1%
Poland, Polish Tier-2 Federation			AMD64.PSNC.PL		1,032			1,032	
			CYFRONET-IA64	5	6			11	
			CYFRONET-LCG2	3	155,726		692	156,421	
			egee.man.poznan.pl	4,003	3			4,006	
			PSNC	8	13,553		583	14,144	
			WARSAW-EGEE	2	18	3,761	446	4,227	
PL-TIER2-WLCG	650	290,160		4,021	170,338	3,761	1,721	179,841	62%

Federation	2007 CPU Pledge (KSI2K)	pledge inc. efficiency (KSI2K- Hrs)	Site(s)	ALICE	ATLAS	CMS	LHCb	Total	delivered as % of pledge
Portugal, LIP Tier-2 Federation			LIP-Coimbra		22,161	2,010		24,171	
			LIP-Lisbon		23,211	1,371		24,582	
PT-LIP-LCG-Tier2	500	223,200			45,372	3,381		48,753	22%
Romania, Romanian Tier-2 Federation			NIHAM	135,358				135,358	
			RO-02-NIPNE		23,962			23,962	
			RO-07-NIPNE	56,032	11,172		311	67,515	
			RO-11-NIPNE				181	181	
RO-LCG	735	328,104		191,390	35,134		492	227,016	69%
Russian Fed., Russian Data-Intensive GRID			RU-Protvino-IHEP	18,419	123,658	7,409	1,025	150,511	
			ITEP	43,154	105,377	33,434	17,386	199,351	
			JINR-LCG2	19,918	62,859	26,916	463	110,156	
			RRC-KI	1,424	630	2	485	2,541	
			ru-Moscow-SINP-LCG2	30,040	12,054	8	4,675	46,777	
			ru-Moscow-FIAN-LCG2		182			182	
			ru-Moscow-MEPHI-LCG2		238			238	
			RU-SPbSU	3,580	627		75	4,282	
			RU-Phys-SPbSU						
			ru-PNPI	38,754	93,130	3,860	5,809	141,553	
			Ru-Troitsk-INR-LCG2						
RU-RDIG	3,000	1,339,200		155,289	398,755	71,629	29,918	655,591	
Slovenia, SiNET			SiNET		157,700			157,700	
SI-SiNET	200	89,280			157,700			157,700	177%
Spain, ATLAS Federation			Ifae		35,767			35,767	
			IFIC-LCG2		114,701			114,701	
			UAM-LCG2		145,019			145,019	
ES-ATLAS-T2 tbc	117	52,229			295,487			295,487	566%
Spain, CMS Federation			CIEMAT-LCG2			122,117		122,117	
			IFCA-LCG2			27,259		27,259	
ES-CMS-T2	380	169,632				149,376		149,376	88%
Spain, LHCb Federation			UB-LCG2				4,729	4,729	
			USC-LCG2				275	275	
ES-LHCb-T2	118	52,675					5,004	5,004	9%
Sweden, SNIC Tier-2			SE-SNIC-T2						
SE-SNIC-T2	244	108,922							
Switzerland, CHIPP			CSCS-LCG2		95,097	28,901	302	124,300	
CH-CHIPP-CSCS	200	89,280			95,097	28,901	302	124,300	139%

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Taipei, Taiwan Analysis Facility Federation			TW-FTT		81,826	2,297		84,123	
TW-FTT-T2	300	133,920			81,826	2,297		84,123	63%
Turkey, Turkish Tier-2 Federation			TR-03-METU		5,528	2,693	75	8,296	
			TR-10-ULAKBIM		3,877	1	73	3,951	
TR-Tier2-federation	250	111,600			9,405	2,694	148	12,247	11%
UK, London Tier 2			UKI-LT2-Brunel	7	9,029	6,305	926	16,267	
			UKI-LT2-IC-HEP	19	179,634	30,110	368	210,131	
			UKI-LT2-IC-LeSC	5	64,631	8,983	3	73,622	
			UKI-LT2-QMUL						
			UKI-LT2-RHUL	1	3,687	948	162	4,798	
			UKI-LT2-UCL-CENTRAL						
			UKI-LT2-UCL-HEP		7,299			7,299	
UK-London-Tier2	2,500	1,116,000		32	264,280	46,346	1,459	312,117	28%
UK, NorthGrid			UKI-NORTHGRID-LANCS-HEP	3	52,210		2,442	54,655	
			UKI-NORTHGRID-LIV-HEP	5	163,990	1	265	164,261	
			UKI-NORTHGRID-MAN-HEP	4	247,138		218	247,360	
			UKI-NORTHGRID-SHEF-HEP	4	45,450	55	8,310	53,819	
UK-NorthGrid	2,600	1,160,640		16	508,788	56	11,235	520,095	45%
UK, ScotGrid			UKI-SCOTGRID-DURHAM	2	3,581	2	114	3,699	
			ScotGRID-Edinburgh	1	304		76	381	
			UKI-SCOTGRID-GLASGOW		178,496		1,394	179,890	
UK-ScotGrid	340	151,776		3	182,381	2	1,584	183,970	121%
UK, SouthGrid			EFDA-JET	5	5,919		103	6,027	
			UKI-SOUTHGRID-BHAM-HEP	100	2,246		801	3,147	
			UKI-SOUTHGRID-BRIS-HEP	3	1,301	2,327	58	3,689	
			UKI-SOUTHGRID-CAM-HEP		19,516		55	19,571	
			UKI-SOUTHGRID-OX-HEP	4	124,075	4	381	124,464	
			UKI-SOUTHGRID-RALPP	2	135,451	23,122	432	159,007	
UK-SouthGrid	940	419,616		114	288,508	25,453	1,830	315,905	75%
Ukraine, Ukrainian Tier-2 Federation			Information to become available in 2008						
UA-	600	267,840							
USA, Great Lakes ATLAS T2			AGLT2		742,512			742,512	
US-AGLT2	581	259,358			742,512			742,512	286%
USA, Northeast ATLAS T2			BU_ATLAS_Tier2		238,277			238,277	
US-NET2	394	175,882			238,277			238,277	135%

Federation	2007 CPU Pledge (KSI2K)	pledge inc. efficiency (KSI2K- Hrs)	Site(s)	ALICE	ATLAS	CMS	LHCb	delivered as % Total of pledge
USA, Midwest ATLAS T2			MWT2_UC		352,051			352,051
			MWT2_IU		257,998			257,998
			UC_ATLAS_MWT2		57,758			57,758
			IU_OSG		82,293			82,293
US-MWT2	826	368,726			750,100			750,100 203%
USA, Southwest ATLAS T2			OU_OCHEP_SWT2		135,463			135,463
			SWT2-CPB		180,967			180,967
			UTA_SWT2		212,654			212,654
US-SWT2	998	445,507			529,084			529,084 119%
USA, SLAC ATLAS T2			PROD_SLAC		382,817			382,817
US-WT2	550	245,520			382,817			382,817 156%
USA, Caltech CMS T2			CIT_CMS_T2			142,343		142,343
T2_US_Caltech	470	209,808				142,343		142,343 68%
USA, Florida CMS T2			Uflorida-PG		1	31,826		31,827
			Uflorida-IHEPA					
			Uflorida-HPC					
T2_US_Florida	470	209,808			1	31,826		31,827 15%
USA, MIT CMS T2			MIT_CMS			91,108		91,108
US-MIT	470	209,808				91,108		91,108 43%
USA, Nebraska CMS T2			Nebraska		8	105,956		105,964
US-Nebraska	470	209,808			8	105,956		105,964 51%
USA, Purdue CMS T2			Purdue-Lear					
			Purdue-RCAC			39,733		39,733
US-Purdue	470	209,808				39,733		39,733 19%
USA, UC San Diego CMS T2			UCSDT2		1	62,896		62,897
US-UCSD	470	209,808			1	62,896		62,897 30%
USA, U. Wisconsin CMS T2			GLOW			86,779		86,779
US-Wisconsin	470	209,808				86,779		86,779 41%
Grand Total	28,570	12,753,648		612,743	7,572,088	1,628,821	104,678	9,918,330 78%