



WLCG - Tier-2 Accounting Summary

February 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		1,527			1,527	
AU-ATLAS	40	16,704			1,527			1,527	9%
Austria, Austrian Tier-2 Federation			HEPHY-UIBK		1,425			1,425	
AT-HEPHY-VIENNA-UIBK	420	175,392			1,425			1,425	1%
Belgium, Belgian Tier-2 Federation			BEgrid-ULB-VUB			34,226		34,226	
			BelGrid-UCL			10,460		10,460	
BE-TIER2	600	250,560				44,686		44,686	18%
China, IHEP, Beijing			BEIJING-LCG2						
CN-IHEP	400	167,040							
Czech Rep., FZU AS, Prague			praguelcg2	7,038	920			7,958	
			prague_cesnet_lcg2	2	533			535	
CZ-Prague-T2	80	33,408		7,040	1,453			8,493	25%
Finland, NDGF/HIP Tier2			HIP-T2						
FI-HIP-T2	187	78,091							
France, CC-IN2P3 AF			IN2P3-CC-T2	7,652	502,489	222,511	16,570	749,222	
FR-IN2P3-CC-T2	320	133,632		7,652	502,489	222,511	16,570	749,222	561%
France, GRIF, Paris			GRIF	21,703	144,156	44,807	3,558	214,224	
FR-GRIF	583	243,461		21,703	144,156	44,807	3,558	214,224	88%
France, LAPP, Annecy			IN2P3-LAPP		117,472		17,524	134,996	
FR-IN2P3-LAPP	350	146,160			117,472		17,524	134,996	92%
France, LPC, Clermont-Ferrand			IN2P3-LPC	1,135	124,814		744	126,693	
FR-IN2P3-LPC	450	187,920		1,135	124,814		744	126,693	67%
France, SUBATECH, Nantes			IN2P3-SUBATECH	23,987				23,987	
FR-IN2P3-SUBATECH	224	93,542		23,987				23,987	26%
Germany, GSI, Darmstadt			GSII-LCG2	844				844	
DE-GSI	260	108,576		844				844	1%
Germany, LHCb Federation, DESY			DESY-HH						
			DESY-ZN				609	844	
DE- DESY-LHCb-T2	78	32,573					609	844	3%
Germany, ATLAS Federation FR/W			UNI-FREIBURG		8,588			8,588	
			wuppertalprod		29,742			29,742	
DE-FREIBURGWUPPERTAL	80	33,408			38,330			38,330	115%
Germany, ATLAS Federation, Munich			LRZ-LMU		20,504			20,504	
			MPPMU		2,505			2,505	
DE-MCAT	100	41,760			23,009			23,009	55%

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Germany, ATLAS Federation, DESY			DESY-HH		81,255			81,255	
			DESY-ZN		37,629			37,629	
DE-DESY-ATLAS-T2	80	33,408			118,884			118,884	356%
Germany, CMS Federation			DESY-HH			28,699		28,699	
			DESY-ZN						
			RWTH-Aachen			30,817		30,817	
DE-DESY-RWTH-CMS-T2	500	208,800				59,516		59,516	29%
Hungary, HGCC Federation			BUDAPEST	539	44	9,913	21	10,517	
			ELTE						
HU-HGCC-T2	200	83,520		539	44	9,913	21	10,517	13%
India, TIFR, Mumbai			INDIACMS-TIFR						
IN-INDIACMS-TIFR	130	54,288							
India, VECC/SINP, Kolkata			IN-DAE-VECC-01	373				373	
IN-DAE-KOLKATA-TIER2	282	117,763		373				373	0%
Israel, HEP-IL Tier-2 Federation			WEIZMANN-LCG2		4		45	49	
			TAU-LCG2		3,126		362	3,488	
IL-HEPTier-2	61	25,474			3,130		407	3,537	14%
Italy, INFN ALICE Federation			INFN-BARI	2,939				2,939	
			INFN-CATANIA	3,813				3,813	
			INFN-FRASCATI						
			INFN-LNL-2	6,900				6,900	
			INFN-MILANO	5				5	
			INFN-NAPOLI-ATLAS	1				1	
			INFN-PISA	3				3	
			INFN-ROMA1						
			INFN-ROMA1-CMS						
			INFN-TORINO	4,561				4,561	
IT-ALICE-federation	550	229,680		18,222				18,222	8%
Italy, INFN ATLAS Federation			INFN-BARI		591			591	
			INFN-CATANIA						
			INFN-FRASCATI		9,609			9,609	
			INFN-LNL-2		14,292			14,292	
			INFN-MILANO		25,670			25,670	
			INFN-NAPOLI-ATLAS		27,467			27,467	
			INFN-PISA		11,294			11,294	
			INFN-ROMA1		32,218			32,218	
			INFN-ROMA1-CMS		2,534			2,534	
			INFN-TORINO		159			159	
IT-ATLAS-federation	400	167,040			123,834			123,834	74%

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			28,425		28,425	
			INFN-CATANIA			1		1	
			INFN-FRASCATI						
			INFN-LNL-2			97,707		97,707	
			INFN-MILANO						
			INFN-NAPOLI-ATLAS			1		1	
			INFN-PISA			267,082		267,082	
			INFN-ROMA1						
			INFN-ROMA1-CMS			36		36	
			INFN-TORINO						
IT-CMS-federation	400	167,040				393,252		393,252	235%
Italy, INFN LHCb Federation			INFN-BARI				1,655	1,655	
			INFN-CATANIA				238	238	
			INFN-FRASCATI						
			INFN-LNL-2				494	494	
			INFN-MILANO				15	15	
			INFN-NAPOLI-ATLAS				123	123	
			INFN-PISA				186	186	
			INFN-ROMA1						
			INFN-ROMA1-CMS						
			INFN-TORINO				162	162	
IT-LHCb-federation	150	62,640					2,873	2,873	5%
Japan, ICEPP, Tokyo			TOKYO-LCG2		262,233			262,233	
JP-Tokyo-ATLAS-T2	1,000	417,600			262,233			262,233	63%
Norway, UNINETT SIGMA Tier-2			NO-NORGRID-T2						
NO-NORDGRID-T2									
Pakistan, Pakistan Tier-2 Federation			NCP-LCG2		18		65	83	
			PAKGRID-LCG2		9		250	259	
PK-CMS-T2	410	171,216			27		315	342	0%
Poland, Polish Tier-2 Federation			AMD64.PSNC.PL		11	2		13	
			CYFRONET-IA64	1,703	9			1,712	
			CYFRONET-LCG2	1	51,956		42	51,999	
			egee.man.poznan.pl	7,515	8			7,523	
			PSNC	5	3,183		295	3,483	
			WARSAW-EGEE	3	52	51,859	345	52,259	
PL-TIER2-WLCG	650	271,440		9,227	55,219	51,861	682	116,989	43%

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		8,427	7,017		15,444	
			LIP-Lisbon		6,517	5,462		11,979	
PT-LIP-LCG-Tier2	500	208,800			14,944	12,479		27,423	13%
Romania, Romanian Tier-2 Federation			NIHAM	32,091				32,091	
			RO-02-NIPNE		10,179			10,179	
			RO-07-NIPNE	15,021	15,080		139	30,240	
			RO-11-NIPNE				213	213	
RO-LCG	735	306,936		47,112	25,259		352	72,723	24%
Russian Fed., Russian Data-Intensive GRID			RU-Protvino-IHEP	23	23,732	18,769	610	43,134	
			ITEP	11,066	21,691	34,554	32,150	99,461	
			JINR-LCG2	329	15,449	91,881	62	107,721	
			RRC-KI		80		298	378	
			ru-Moscow-SINP-LCG2	3,405	8,688	10	13,020	25,123	
			ru-Moscow-FIAN-LCG2		841			841	
			ru-Moscow-MEPHI-LCG2		2			2	
			RU-SPbSU	1,236	50		7	1,293	
			RU-Phys-SPbSU						
			ru-PNPI	12	17,371	28,165	16,878	62,426	
			Ru-Troitsk-INR-LCG2	1,464			6	1,470	
RU-RDIG	3,000	1,252,800		17,535	87,904	173,379	63,031	341,849	
Slovenia, SiNET			SiNET		93,516			93,516	
SI-SiNET	200	83,520			93,516			93,516	112%
Spain, ATLAS Federation			Ifae		29,399			29,399	
			IFIC-LCG2		62,337			62,337	
			UAM-LCG2		125,572			125,572	
ES-ATLAS-T2 tbc	117	48,859			217,308			217,308	445%
Spain, CMS Federation			CIEMAT-LCG2			88,000		88,000	
			IFCA-LCG2			14,746		14,746	
ES-CMS-T2	380	158,688				102,746		102,746	65%
Spain, LHCb Federation			UB-LCG2				209	209	
			USC-LCG2				266	266	
ES-LHCb-T2	118	49,277					475	475	1%
Sweden, SNIC Tier-2			SE-SNIC-T2						
SE-SNIC-T2	244	101,894							
Switzerland, CHIPP			CSCS-LCG2		54,212	124,583	162	178,957	
CH-CHIPP-CSCS	200	83,520			54,212	124,583	162	178,957	214%

Federation	2007 CPU Pledge (KSI2K)	pledge inc. efficiency (KSI2K-Hrs)	Site(s)	ALICE	ATLAS	CMS	LHCb	Total	delivered as % of pledge
Taipei, Taiwan Analysis Facility Federation			TW-FTT		9,069	3,893		12,962	
TW-FTT-T2	300	125,280			9,069	3,893		12,962	10%
Turkey, Turkish Tier-2 Federation			TR-03-METU		4,173	6,511	76	10,760	
			TR-10-ULAKBIM		3,880	1	482	4,363	
TR-Tier2-federation	250	104,400			8,053	6,512	558	15,123	14%
UK, London Tier 2			UKI-LT2-Brunel	7	28,682	31,531	1,991	62,211	
			UKI-LT2-IC-HEP	13	87,983	38,066	35	126,097	
			UKI-LT2-IC-LeSC	3	16,894	5,131	5	22,033	
			UKI-LT2-QMUL	13	3,494	2		3,509	
			UKI-LT2-RHUL	2	2,503	3,327	295	6,127	
			UKI-LT2-UCL-CENTRAL						
			UKI-LT2-UCL-HEP		5,701			5,701	
UK-London-Tier2	2,500	1,044,000		38	145,257	78,057	2,326	225,678	22%
UK, NorthGrid			UKI-NORTHGRID-LANCS-HEP	2	88,878		5,520	94,400	
			UKI-NORTHGRID-LIV-HEP	1	45,010	1	1,527	46,539	
			UKI-NORTHGRID-MAN-HEP	5	298,499		578	299,082	
			UKI-NORTHGRID-SHEF-HEP	3	6,314		405	6,722	
UK-NorthGrid	2,600	1,085,760		11	438,701	1	8,030	446,743	41%
UK, ScotGrid			UKI-SCOTGRID-DURHAM	3	22,973	152	346	23,474	
			ScotGRID-Edinburgh	1	154		7	162	
			UKI-SCOTGRID-GLASGOW		176,421		775	177,196	
UK-ScotGrid	340	141,984		4	199,548	152	1,128	200,832	141%
UK, SouthGrid			EFDA-JET	4	5,400		44	5,448	
			UKI-SOUTHGRID-BHAM-HEP	124	1,589		451	2,164	
			UKI-SOUTHGRID-BRIS-HEP	2	1,310	108	120	1,540	
			UKI-SOUTHGRID-CAM-HEP		2,810		2	2,812	
			UKI-SOUTHGRID-OX-HEP	5	131,802	1	123	131,931	
			UKI-SOUTHGRID-RALPP		66,917	43,505	505	110,927	
UK-SouthGrid	940	392,544		135	209,828	43,614	1,245	254,822	65%
Ukraine, Ukrainian Tier-2 Federation			Information to become available in 2008						
UA-	600	250,560							
USA, Great Lakes ATLAS T2			AGLT2		494,072			494,072	
US-AGLT2	581	242,626			494,072			494,072	204%
USA, Northeast ATLAS T2			BU_ATLAS_Tier2		140,535			140,535	
US-NET2	394	164,534			140,535			140,535	85%

Federation	2007 CPU Pledge (KSI2K)	pledge inc. efficiency (KSI2K- Hrs)	Site(s)	ALICE	ATLAS	CMS	LHCb	Total	delivered as % of pledge
USA, Midwest ATLAS T2			MWT2_UC		247,400			247,400	
			MWT2_IU		200,477			200,477	
			UC_ATLAS_MWT2		51,483			51,483	
			IU_OSG		47,365			47,365	
US-MWT2	826	344,938			546,725			546,725	158%
USA, Southwest ATLAS T2			OU_OCHEP_SWT2		157,016			157,016	
			SWT2-CPB						
			UTA_SWT2		202,016			202,016	
US-SWT2	998	416,765			359,032			359,032	86%
USA, SLAC ATLAS T2			PROD_SLAC		147,786			147,786	
US-WT2	550	229,680			147,786			147,786	64%
USA, Caltech CMS T2			CIT_CMS_T2			70,499		70,499	
T2_US_Caltech	470	196,272				70,499		70,499	36%
USA, Florida CMS T2			Uflorida-PG			91,282		91,282	
			Uflorida-IHEPA						
			Uflorida-HPC						
T2_US_Florida	470	196,272				91,282		91,282	47%
USA, MIT CMS T2			MIT_CMS			148,692		148,692	
US-MIT	470	196,272				148,692		148,692	76%
USA, Nebraska CMS T2			Nebraska	3		180,429		180,432	
US-Nebraska	470	196,272		3		180,429		180,432	92%
USA, Purdue CMS T2			Purdue-Lear						
			Purdue-RCAC			105,579		105,579	
US-Purdue	470	196,272				105,579		105,579	54%
USA, UC San Diego CMS T2			UCSDT2		1	116,304		116,305	
US-UCSD	470	196,272			1	116,304		116,305	59%
USA, U. Wisconsin CMS T2			GLOW			223,337		223,337	
US-Wisconsin	470	196,272				223,337		223,337	114%
Grand Total	28,648	11,963,405		155,557	4,709,799	2,308,084	120,610	7,294,050	61%