



WLCG - Tier-2 Accounting Summary

July 2009

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

CPU usage in month (KSI2K-Hrs)

Federation - Accounting Name	Apr 09 - Aug 09 at 2008 CPU Pledge (KSI2K)	pledge inc. efficiency (KSI2K- Hrs)	Site(s)	ALICE	ATLAS	CMS	LHCb	Total	used as % of pledge
Australia, University of Melbourne			Australia-ATLAS		363,156			363,156	
			Australia-UNIMELB-LCG2						
AU-ATLAS	150	66,960			363,156			363,156	542%
Austria, Austrian Tier-2 Federation			HEPHY-UIBK		11,632			11,632	
			Hephy-Vienna			172,313		172,313	
AT-HEPHY-VIENNA-UIBK	540	241,056			11,632	172,313		183,945	76%
Belgium, Belgian Tier-2 Federation			BEgrid-ULB-VUB			62,856		62,856	
			BelGrid-UCL			62,566		62,566	
BE-TIER2	1,050	468,720				125,422		125,422	27%
Brazil, SPRACE, São Paulo			SPRACE			42,517		42,517	
BR-SP-SPRACE	400	178,560				42,517		42,517	24%
Canada-East Federation			TORONTO-LCG2		132,489			132,489	
CA-EAST-T2	200	89,280			132,489			132,489	148%
Canada-West Federation			ALBERTA-LCG2		62,509			62,509	
			SFU-LCG2		23,373			23,373	
			VICTORIA-LCG2		101,555			101,555	
CA-WEST-T2	300	133,920			187,437			187,437	140%
China, IHEP, Beijing			BEIJING-LCG2		134,840	94,310		229,150	
CN-IHEP	400	178,560			134,840	94,310		229,150	128%
Czech Rep., FZU AS, Prague			praguelcg2	52,136	93,436			145,572	
			prague_cesnet_lcg2	7	251			258	
CZ-Prague-T2	164	73,210		52,143	93,687			145,830	199%
Estonia, NICPB, Tallinn			T2_Estonia			176,123		176,123	
EE-NICPB	150	66,960				176,123		176,123	263%
Finland, NDGF/HIP Tier2			CSC			20,630		20,630	
FI-HIP-T2	564	251,770				20,630		20,630	8%
France, CC-IN2P3 AF			IN2P3-CC-T2	96,567	489,266	109,343	244,069	939,245	
FR-IN2P3-CC-T2	1,500	669,600		96,567	489,266	109,343	244,069	939,245	140%
France, IPHC, Strasbourg			IN2P3-IRES	293,922		112,946		406,868	
FR-IN2P3-IPHC	320	142,848		293,922		112,946		406,868	285%
France, GRIF, Paris			GRIF	235,237	456,259	243,635	198,985	1,134,116	
FR-GRIF	1,642	732,989		235,237	456,259	243,635	198,985	1,134,116	155%
France, LAPP, Annecy			IN2P3-LAPP		215,391		353,296	568,687	
FR-IN2P3-LAPP	600	267,840			215,391		353,296	568,687	212%
France, LPC, Clermont-Ferrand			IN2P3-LPC	24,716	74,303		62,665	161,684	
FR-IN2P3-LPC	800	357,120		24,716	74,303		62,665	161,684	45%
France, SUBATECH, Nantes			IN2P3-SUBATECH	69,277				69,277	
FR-IN2P3-SUBATECH	312	139,277		69,277				69,277	50%
Germany, GSI, Darmstadt			GSI-LCG2	2				2	
DE-GSI	660	294,624		2				2	0%

Federation - Accounting Name	Apr 09 - Aug 09 pledge inc.		Site(s)	ALICE	ATLAS	CMS	LHCb	Total	used as % of pledge
	at 2008 CPU Pledge (KSI2K)	efficiency (KSI2K- Hrs)							
Germany, ATLAS Federation FR/W			UNI-FREIBURG		295,049			295,049	
			wuppertalprod		184,025			184,025	
DE-FREIBURGWUPPERTAL	584	260,698			479,074			479,074	184%
Germany, ATLAS Federation, Munich			LRZ-LMU		438,981			438,981	
			MPPMU		145,590			145,590	
DE-MCAT	622	277,661			584,571			584,571	211%
Germany, ATLAS Federation, DESY			DESY-HH		322,014			322,014	
			DESY-ZN		244,483			244,483	
DE-DESY-ATLAS-T2	583	260,251			566,497			566,497	218%
Germany, ATLAS Federation, HH/Goe			GoeGrid		580,947			580,947	
DE-DESY-GOE-ATLAS-T2	300	133,920			580,947			580,947	434%
Germany, CMS Federation			DESY-HH			308,324		308,324	
			DESY-ZN						
			RWTH-Aachen			544,089		544,089	
DE-DESY-RWTH-CMS-T2	1,050	468,720			852,413			852,413	182%
Hungary, HGCC Federation			BUDAPEST	28,984		57,969		86,953	
			ELTE						
HU-HGCC-T2	270	120,528		28,984		57,969		86,953	72%
India, TIFR, Mumbai			INDIACMS-TIFR			29,104		29,104	
IN-INDIACMS-TIFR	450	200,880				29,104		29,104	14%
India, VECC/SINP, Kolkata			IN-DAE-VECC-01	21,043				21,043	
			IN-DAE-VECC-02	121,931				121,931	
IN-DAE-KOLKATA-TIER2	450	200,880		142,974				142,974	71%
Israel, IL-HEP Tier-2 Federation			WEIZMANN-LCG2	12	45,116		2,714	47,842	
			TECHNION-HEP	8	5,227		13	5,248	
			IL-TAU-HEP						
IL-HEPTier-2	280	124,992		20	50,343		2,727	53,090	42%
Italy, INFN ALICE Federation			INFN-BARI	43,313				43,313	
			INFN-CATANIA	74,908				74,908	
			INFN-FRASCATI						
			INFN-LNL-2	68,612				68,612	
			INFN-MILANO	15				15	
			INFN-NAPOLI-ATLAS	11				11	
			INFN-PISA	23				23	
			INFN-ROMA1						
			INFN-ROMA1-CMS						
			INFN-TORINO	86,067				86,067	
IT-ALICE-federation	750	334,800		272,949				272,949	82%
Italy, INFN ATLAS Federation			INFN-BARI		29			29	
			INFN-CATANIA						
			INFN-FRASCATI		77,004			77,004	
			INFN-LNL-2		47			47	
			INFN-MILANO		150,185			150,185	
			INFN-NAPOLI-ATLAS		240,649			240,649	
			INFN-PISA		30			30	
			INFN-ROMA1		209,597			209,597	
			INFN-ROMA1-CMS						

Federation - Accounting Name	Apr 09 - Aug 09 pledge inc. at 2008 CPU efficiency (KSI2K- Pledge (KSI2K) Hrs)		Site(s)	ALICE	ATLAS	CMS	LHCb	Total	used as % of pledge
			INFN-TORINO		11			11	
IT-ATLAS-federation	750	334,800			677,552			677,552	202%
Italy, INFN CMS Federation			INFN-BARI			100,043		100,043	
			INFN-CATANIA						
			INFN-FRASCATI						
			INFN-LNL-2			299,284		299,284	
			INFN-MILANO						
			INFN-NAPOLI-ATLAS						
			INFN-PISA			416,284		416,284	
			INFN-ROMA1						
			INFN-ROMA1-CMS			102,280		102,280	
			INFN-TORINO						
IT-CMS-federation	850	379,440			917,891			917,891	242%
Italy, INFN LHCb Federation			INFN-BARI				17,211	17,211	
			INFN-CATANIA				5	5	
			INFN-FRASCATI						
			INFN-LNL-2				273,095	273,095	
			INFN-MILANO						
			INFN-NAPOLI-ATLAS				6,153	6,153	
			INFN-PISA				109,580	109,580	
			INFN-ROMA1						
			INFN-ROMA1-CMS						
			INFN-TORINO				37,881	37,881	
IT-LHCb-federation	350	156,240					443,925	443,925	284%
Japan, ICEPP, Tokyo			TOKYO-LCG2		350,473			350,473	
JP-Tokyo-ATLAS-T2	1,000	446,400			350,473			350,473	79%
Republic of Korea, KISTI, Daejeon			KR-KISTI-GCRT-01	8,633				8,633	
KR-KISTI-T2	100	44,640		8,633				8,633	19%
Republic of Korea, CHEP of KNU, Daegu			LCG_KNU			83,623		83,623	
KR-KNU-T2	570	254,448				83,623		83,623	33%
Norway, UNINETT SIGMA Tier-2			NO-NORGRID-T2						
NO-NORDGRID-T2	110	49,104							
Pakistan, Pakistan Tier-2 Federation			NCP-LCG2			1,196		1,196	
			PAKGRID-LCG2	26	12	1	14	53	
PK-CMS-T2	795	354,888		26	12	1,197	14	1,249	0%
Poland, Polish Tier-2 Federation			CYFRONET-LCG2	269,360	785,780		443,195	1,498,335	
			PSNC	322,762	97,401		57,312	477,475	
			WARSAW-EGEE			116,328	136,494	252,822	
PL-TIER2-WLCG	1,250	558,000		592,122	883,181	116,328	637,001	2,228,632	399%
Portugal, LIP Tier-2 Federation			LIP-Coimbra		54,354	1,538		55,892	
			LIP-Lisbon		205,494	99,319		304,813	
PT-LIP-LCG-Tier2	750	334,800			259,848	100,857		360,705	108%
Romania, Romanian Tier-2 Federation			NIHAM	196,841				196,841	
			RO-02-NIPNE		50,004			50,004	
			RO-07-NIPNE	18,523	33,233		12	51,768	
			RO-11-NIPNE				13,875	13,875	
RO-LCG	1,300	580,320		215,364	83,237		13,887	312,488	54%

Federation - Accounting Name	Apr 09 - Aug 09 pledge inc.		Site(s)	ALICE	ATLAS	CMS	LHCb	Total	used as % of pledge
	at 2008 CPU Pledge (KSI2K)	efficiency (KSI2K- Hrs)							
Russian Fed., Russian Data-Intensive GRID			RU-Protvino-IHEP	76,244	125,767	26,366	62,721	291,098	
			ITEP	87,499	84,710	68,250	38,998	279,457	
			JINR-LCG2	147,196	678,539	107,454	555,805	1,488,994	
			RRC-KI	95,557	143,069	82,319	378,747	699,692	
			ru-Moscow-SINP-LCG2	26,833	961	14,537	59,171	101,502	
			ru-Moscow-FIAN-LCG2		14			14	
			ru-Moscow-MEPHI-LCG2	45,843	764			46,607	
			RU-SPbSU	17,688	6		26,809	44,503	
			RU-Phys-SPbSU						
			ru-PNPI	109,831	4,316	10,746	128,014	252,907	
			Ru-Troitsk-INR-LCG2	19,347		5,152	26,741	51,240	
RU-RDIG	3,000	1,339,200		626,038	1,038,146	314,824	1,277,006	3,256,014	243%
Slovenia, SiGNET			SIGNET		496,669			496,669	
SI-SiGNET	300	133,920			496,669			496,669	371%
Spain, ATLAS Federation			Ifae		105,828			105,828	
			IFIC-LCG2		72,049			72,049	
			UAM-LCG2		84,294			84,294	
ES-ATLAS-T2	875	390,600			262,171			262,171	67%
Spain, CMS Federation			CIEMAT-LCG2			375,610		375,610	
			IFCA-LCG2			70,535		70,535	
ES-CMS-T2	760	339,264				446,145		446,145	132%
Spain, LHCb Federation			UB-LCG2				120,846	120,846	
			USC-LCG2				84,195	84,195	
ES-LHCb-T2	296	132,134					205,041	205,041	155%
Sweden, SNIC Tier-2			SE-SNIC-T2						
SE-SNIC-T2	981	437,918							
Switzerland, CHIPP			CSCS-LCG2		163,923	76,238	38	240,199	
CH-CHIPP-CSCS	680	303,552			163,923	76,238	38	240,199	79%
Taipei, Taiwan Analysis Facility Federation			TW-FTT		68,300	16,280		84,580	
TW-FTT-T2	400	178,560			68,300	16,280		84,580	47%
Turkey, Turkish Tier-2 Federation			TR-03-METU		23	15,386		15,409	
			TR-10-ULAKBIM		31,929			31,929	
TR-Tier2-federation	850	379,440			31,952	15,386		47,338	12%
UK, London Tier 2			UKI-LT2-Brunel	31	91,120	65,818	74,311	231,280	
			UKI-LT2-IC-HEP	20	206,060	176,153	761,633	1,143,866	
			UKI-LT2-IC-LeSC						
			UKI-LT2-QMUL		24,024	63,356	269,305	356,685	
			UKI-LT2-RHUL		188,968	72,516	136,960	398,444	
			UKI-LT2-UCL-CENTRAL	2	3,271	24,134	14	27,421	
			UKI-LT2-UCL-HEP		765			765	
UK-London-Tier2	1,017	453,989		53	514,208	401,977	1,242,223	2,158,461	475%
UK, NorthGrid			UKI-NORTHGRID-LANCS-HEP	15	274,689		81,117	355,821	
			UKI-NORTHGRID-LIV-HEP	11	85,371		159,750	245,132	
			UKI-NORTHGRID-MAN-HEP		355,354	1	554,690	910,045	
			UKI-NORTHGRID-SHEF-HEP	4	55,342		67,537	122,883	
UK-NorthGrid	725	323,640		30	770,756	1	863,094	1,633,881	505%

Federation - Accounting Name	Apr 09 - Aug 09 pledge inc.		Site(s)	ALICE	ATLAS	CMS	LHCb	Total	used as % of pledge	
	at 2008 CPU Pledge (KSI2K)	efficiency (KSI2K- Hrs)								
UK, ScotGrid			UKI-SCOTGRID-DURHAM		102,226		199,608	301,834		
			UKI-SCOTGRID-ECDF		4,695	24,544	420	29,659		
			UKI-SCOTGRID-GLASGOW		789,652	64,740	488,330	1,342,722		
UK-ScotGrid	925	412,920			896,573	89,284	688,358	1,674,215	405%	
UK, SouthGrid			EFDA-JET	7	299		85,704	86,010		
			UKI-SOUTHGRID-BHAM-HEP	12	12,629	3	41,447	54,091		
			UKI-SOUTHGRID-BRIS-HEP	7	477	24,717	53,885	79,086		
			UKI-SOUTHGRID-CAM-HEP		59,075		21,152	80,227		
			UKI-SOUTHGRID-OX-HEP	12	98,509	45,440	166,729	310,690		
			UKI-SOUTHGRID-RALPP	7	25,358	140,208	155,061	320,634		
UK-SouthGrid	959	428,098		45	196,347	210,368	523,978	930,738	217%	
Ukraine, Ukrainian Tier-2 Federation			gLite testing and certification ongoing							
UA-Tier2-Federation	1,166	520,502								
USA, Great Lakes ATLAS T2			AGLT2		2,305,967			2,305,967		
US-AGLT2	965	430,776			2,305,967			2,305,967	535%	
USA, Northeast ATLAS T2			BU_ATLAS_Tier2		851,254			851,254		
US-NET2	665	296,856			851,254			851,254	287%	
USA, Midwest ATLAS T2			MWT2_UC		1,582,596			1,582,596		
			MWT2_IU		864,444			864,444		
US-MWT2	1,112	496,397			2,447,040			2,447,040	493%	
USA, Southwest ATLAS T2			OU_OCHEP_SWT2		287,408			287,408		
			SWT2_CPB		787,414			787,414		
			UTA_SWT2		236,965			236,965		
US-SWT2	1,386	618,710			1,311,787			1,311,787	212%	
USA, SLAC ATLAS T2			WT2		1,059,310			1,059,310		
US-WT2	820	366,048			1,059,310			1,059,310	289%	
USA, Caltech CMS T2			CIT_CMS_T2		1	991,423		991,424		
T2_US_Caltech	1,000	446,400			1	991,423		991,424	222%	
USA, Florida CMS T2			Uflorida-PG		1	109,634		109,635		
			Uflorida-HPC		16	239,980		239,996		
T2_US_Florida	1,000	446,400			17	349,614		349,631	78%	
USA, MIT CMS T2			MIT_CMS			925,052		925,052		
T2_US_MIT	1,000	446,400				925,052		925,052	207%	
USA, Nebraska CMS T2			Nebraska		33	946,193		946,226		
T2_US_Nebraska	1,000	446,400			33	946,193		946,226	212%	
USA, Purdue CMS T2			Purdue-RCAC			607,983		607,983		
			Purdue-Steele			168,332		168,332		
T2_US_Purdue	1,000	446,400				776,315		776,315	174%	
USA, UC San Diego CMS T2			UCSDT2		1	532,964		532,965		
T2_US_UCSD	1,000	446,400			1	532,964		532,965	119%	
USA, U. Wisconsin CMS T2			GLOW		29	659,529		659,558		
T2_US_Wisconsin	1,000	446,400			29	659,529		659,558	148%	
Grand Total	47,798	21,337,028			2,659,102	19,088,679	10,008,214	6,756,307	38,512,302	180%