



WLCG - Tier-2 Accounting Summary

June 2008

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

CPU usage in month (KSI2K-Hrs)

Federation - Accounting Name	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-UNIMELB-LCG2						
AU-ATLAS	150	64,800							
Austria, Austrian Tier-2 Federation			HEPHY-UIBK		20,151			20,151	
AT-HEPHY-VIENNA-UIBK	540	233,280			20,151			20,151	9%
Belgium, Belgian Tier-2 Federation			BEGrid-ULB-VUB						
			BelGrid-UCL			9,663		9,663	
BE-TIER2	1,050	453,600				9,663		9,663	2%
Canada-East Federation			TORONTO-LCG2						
CA-EAST-T2	200	86,400							
Canada-West Federation			ALBERTA-LCG2						
			SFU-LCG2						
			VICTORIA-LCG2		5,276			5,276	
CA-WEST-T2	300	129,600			5,276			5,276	4%
China, IHEP, Beijing			BEIJING-LCG2		22,341	10,923		33,264	
CN-IHEP	400	172,800			22,341	10,923		33,264	19%
Czech Rep., FZU AS, Prague			pragueicg2	39,034	8,976			48,010	
			prague_cesnet_lcg2	3	5,434			5,437	
CZ-Prague-T2	164	70,848		39,037	14,410			53,447	75%
Estonia, NICPB, Tallinn			T2_Estonia			53,377		53,377	
EE-NICPB	150	64,800				53,377		53,377	82%
Finland, NDGF/HIP Tier2			CSC						
FI-HIP-T2	564	243,648							
France, CC-IN2P3 AF			IN2P3-CC-T2	116,923	488,843	107,822	4,198	717,786	
FR-IN2P3-CC-T2	1,500	648,000		116,923	488,843	107,822	4,198	717,786	111%
France, GRIF, Paris			GRIF	313,429	500,774	217,849	13,738	1,045,790	
FR-GRIF	1,642	709,344		313,429	500,774	217,849	13,738	1,045,790	147%
France, LAPP, Annecy			IN2P3-LAPP		120,654		7,085	127,739	
FR-IN2P3-LAPP	600	259,200			120,654		7,085	127,739	49%
France, LPC, Clermont-Ferrand			IN2P3-LPC	132,021	183,088		5,378	320,487	
FR-IN2P3-LPC	800	345,600		132,021	183,088		5,378	320,487	93%
France, SUBATECH, Nantes			IN2P3-SUBATECH	199,460				199,460	
FR-IN2P3-SUBATECH	312	134,784		199,460				199,460	148%
Germany, GSI, Darmstadt			GSi-LCG2	48,396				48,396	
DE-GSI	660	285,120		48,396				48,396	17%
Germany, ATLAS Federation FR/W			UNI-FREIBURG		43,780			43,780	
			wuppertalprod		23,275			23,275	
DE-FREIBURGWUPPERTAL	584	252,288			67,055			67,055	27%

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Germany, ATLAS Federation, Munich			LRZ-LMU		75,018			75,018	
			MPPMU		49,279		1	49,280	
DE-MCAT	622	268,704			124,297		1	124,298	46%
Germany, ATLAS Federation, DESY			DESY-HH		203,374			203,374	
			DESY-ZN		133,224			133,224	
DE-DESY-ATLAS-T2	583	251,856			336,598			336,598	134%
Germany, CMS Federation			DESY-HH			120,362		120,362	
			DESY-ZN						
			RWTH-Aachen			45,195		45,195	
DE-DESY-RWTH-CMS-T2	1,050	453,600				165,557		165,557	36%
Hungary, HGCC Federation			BUDAPEST	420	852	14,844	13	16,129	
			ELTE						
HU-HGCC-T2	270	116,640		420	852	14,844	13	16,129	14%
India, TIFR, Mumbai			INDIACMS-TIFR						
IN-INDIACMS-TIFR	450	194,400							
India, VECC/SINP, Kolkata			IN-DAE-VECC-01						
IN-DAE-KOLKATA-TIER2	450	194,400							
Israel, HEP-IL Tier-2 Federation			WEIZMANN-LCG2						
			TAU-LCG2						
IL-HEPTier-2	280	120,960							
Italy, INFN ALICE Federation			INFN-BARI	21,729				21,729	
			INFN-CATANIA	45,473				45,473	
			INFN-FRASCATI						
			INFN-LNL-2	23,932				23,932	
			INFN-MILANO	3				3	
			INFN-NAPOLI-ATLAS	5				5	
			INFN-PISA	13				13	
			INFN-ROMA1						
			INFN-ROMA1-CMS						
			INFN-TORINO	8,502				8,502	
IT-ALICE-federation	750	324,000		99,657				99,657	31%
Italy, INFN ATLAS Federation			INFN-BARI		2,623			2,623	
			INFN-CATANIA						
			INFN-FRASCATI		13,329			13,329	
			INFN-LNL-2		5,349			5,349	
			INFN-MILANO		32,920			32,920	
			INFN-NAPOLI-ATLAS		84,043			84,043	
			INFN-PISA		19,452			19,452	
			INFN-ROMA1		101,106			101,106	
			INFN-ROMA1-CMS						
			INFN-TORINO						
IT-ATLAS-federation	750	324,000			258,822			258,822	80%

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Italy, INFN CMS Federation			INFN-BARI			61,367		61,367	
			INFN-CATANIA						
			INFN-FRASCATI						
			INFN-LNL-2			114,270		114,270	
			INFN-MILANO						
			INFN-NAPOLI-ATLAS						
			INFN-PISA			183,686		183,686	
			INFN-ROMA1						
			INFN-ROMA1-CMS			8,342		8,342	
			INFN-TORINO						
IT-CMS-federation	850	367,200				367,665		367,665	100%
Italy, INFN LHCb Federation			INFN-BARI				1,641	1,641	
			INFN-CATANIA						
			INFN-FRASCATI						
			INFN-LNL-2				4,085	4,085	
			INFN-MILANO				544	544	
			INFN-NAPOLI-ATLAS				1,250	1,250	
			INFN-PISA				13,550	13,550	
			INFN-ROMA1						
			INFN-ROMA1-CMS						
			INFN-TORINO						
IT-LHCb-federation	350	151,200					21,070	21,070	14%
Japan, ICEPP, Tokyo			TOKYO-LCG2		495,213			495,213	
JP-Tokyo-ATLAS-T2	1,000	432,000			495,213			495,213	115%
Republic of Korea, KISTI, Daejeon			KR-KISTI-GCRT-01	534				534	
KR-KISTI-T2	100	43,200		534				534	1%
Norway, UNINETT SIGMA Tier-2			NO-NORGRID-T2						
NO-NORDGRID-T2	110	47,520							
Pakistan, Pakistan Tier-2 Federation			NCP-LCG2		637	14	4	655	
			PAKGRID-LCG2		342			342	
PK-CMS-T2	795	343,440			979	14	4	997	0%
Poland, Polish Tier-2 Federation			CYFRONET-IA64						
			CYFRONET-LCG2	133,312	88,588			221,900	
			PSNC	239,729	9,432		1	249,162	
			WARSAW-EGEE			36,434	67	36,501	
PL-TIER2-WLCG	1,250	540,000		373,041	98,020	36,434	68	507,563	94%

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Portugal, LIP Tier-2 Federation			LIP-Coimbra		2,362	12,267		14,629	
			LIP-Lisbon		1,644	8,922		10,566	
PT-LIP-LCG-Tier2	750	324,000			4,006	21,189		25,195	8%
Romania, Romanian Tier-2 Federation			NIHAM	159,732				159,732	
			RO-02-NIPNE		101			101	
			RO-07-NIPNE	6	30,923		4	30,933	
			RO-11-NIPNE				16	16	
RO-LCG	1,300	561,600		159,738	31,024		20	190,782	34%
Russian Fed., Russian Data-Intensive GRID			RU-Protvino-IHEP	39,491	30,454	11,601	3,973	85,519	
			ITEP	87,737	15,290	49,430	12,383	164,840	
			JINR-LCG2	181,760	139,750	142,250	15,111	478,871	
			RRC-KI	262,254	5,987	19,048	4,149	291,438	
			ru-Moscow-SINP-LCG2	43,669	17,257	25,095	317	86,338	
			ru-Moscow-FIAN-LCG2						
			ru-Moscow-MEPHI-LCG2		3,033			3,033	
			RU-SPbSU	588	187			775	
			RU-Phys-SPbSU						
			ru-PNPI	108,072	67,417	16,081	7,310	198,880	
			Ru-Troitsk-INR-LCG2	57,468			593	58,061	
RU-RDIG	3,000	1,296,000		781,039	279,375	263,505	43,836	1,367,755	
Slovenia, SiNET			SINET		17,691			17,691	
SI-SINET	300	129,600			17,691			17,691	14%
Spain, ATLAS Federation			Ifae		5,267			5,267	
			IFIC-LCG2		48,430			48,430	
			UAM-LCG2		142,873			142,873	
ES-ATLAS-T2	875	378,000			196,570			196,570	52%
Spain, CMS Federation			CIEMAT-LCG2			112,873		112,873	
			IFCA-LCG2			54,978		54,978	
ES-CMS-T2	760	328,320			167,851			167,851	51%
Spain, LHCb Federation			UB-LCG2				2,878	2,878	
			USC-LCG2				18,753	18,753	
ES-LHCb-T2	296	127,872					21,631	21,631	17%
Sweden, SNIC Tier-2			SE-SNIC-T2						
SE-SNIC-T2	981	423,792							
Switzerland, CHIPP			CSCS-LCG2		63,179	130,523	922	194,624	
CH-CHIPP-CSCS	680	293,760			63,179	130,523	922	194,624	66%

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Taipei, Taiwan Analysis Facility Federation			TW-FTT		64,001	31,086		95,087	
TW-FTT-T2	400	172,800			64,001	31,086		95,087	55%
Turkey, Turkish Tier-2 Federation			TR-03-METU		4,254	1,348		5,602	
			TR-10-ULAKBIM		4,333	3,857		8,190	
TR-Tier2-federation	850	367,200			8,587	5,205		13,792	4%
UK, London Tier 2			UKI-LT2-Brunel	13	52,765	59,534	10,689	123,001	
			UKI-LT2-IC-HEP	16	67,656	38,425	38	106,135	
			UKI-LT2-IC-LeSC	4	6,983	24,090	2	31,079	
			UKI-LT2-QMUL		13,974	1	60	14,035	
			UKI-LT2-RHUL		260,826	100,957	9,750	371,533	
			UKI-LT2-UCL-CENTRAL						
			UKI-LT2-UCL-HEP		7,864			7,864	
UK-London-Tier2	1,017	439,344		33	410,068	223,007	20,539	653,647	149%
UK, NorthGrid			UKI-NORTHGRID-LANCS-HEP	4	105,092		7,682	112,778	
			UKI-NORTHGRID-LIV-HEP	6	184,081		1,318	185,405	
			UKI-NORTHGRID-MAN-HEP	3	104,329		12,272	116,604	
			UKI-NORTHGRID-SHEF-HEP	3	79,930		7,425	87,358	
UK-NorthGrid	725	313,200		16	473,432		28,697	502,145	160%
UK, ScotGrid			UKI-SCOTGRID-DURHAM		395		602	997	
			ScotGRID-Edinburgh						
			UKI-SCOTGRID-ECDF		262,672		2,398	265,070	
			UKI-SCOTGRID-GLASGOW		224,786		4	224,790	
UK-ScotGrid	925	399,600			487,853		3,004	490,857	123%
UK, SouthGrid			EFDA-JET						
			UKI-SOUTHGRID-BHAM-HEP	15	4,152		4,687	8,854	
			UKI-SOUTHGRID-BRIS-HEP	2	668	15,932	2,216	18,818	
			UKI-SOUTHGRID-CAM-HEP		31,214		4,948	36,162	
			UKI-SOUTHGRID-OX-HEP		59,702		111	59,813	
			UKI-SOUTHGRID-RALPP	5	120,822	51,538	6,725	179,090	
UK-SouthGrid	959	414,288		22	216,558	67,470	18,687	302,737	73%
Ukraine, Ukrainian Tier-2 Federation			Information to become available in 2008						
UA-	1,166	503,712							
USA, Great Lakes ATLAS T2			AGLT2		602,642			602,642	
US-AGLT2	965	416,880			602,642			602,642	145%
USA, Northeast ATLAS T2			BU_ATLAS_Tier2		174,557			174,557	
US-NET2	665	287,280			174,557			174,557	61%

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								Total	pledge
USA, Midwest ATLAS T2			MWT2_UC		491,357			491,357	
			MWT2_IU		272,625			272,625	
US-MWT2	1,112	480,384			763,982			763,982	159%
USA, Southwest ATLAS T2			OU_OCCHP_SWT2		155,175			155,175	
			SWT2-CPB		86,203			86,203	
			UTA_SWT2		139,685			139,685	
US-SWT2	1,386	598,752			381,063			381,063	64%
USA, SLAC ATLAS T2			PROD_SLAC		113,300			113,300	
US-WT2	820	354,240			113,300			113,300	32%
USA, Caltech CMS T2			CIT_CMS_T2		321	428,182		428,503	
T2_US_Caltech	1,000	432,000			321	428,182		428,503	99%
USA, Florida CMS T2			Uflorida-PG			10,176		10,176	
			Uflorida-IHEPA			5,689		5,689	
			Uflorida-HPC		3	68,539		68,542	
T2_US_Florida	1,000	432,000			3	84,404		84,407	20%
USA, MIT CMS T2			MIT_CMS		5,109	1,408		6,517	
T2_US_MIT	1,000	432,000			5,109	1,408		6,517	2%
USA, Nebraska CMS T2			Nebraska		3	40,496		40,499	
T2_US_Nebraska	1,000	432,000			3	40,496		40,499	9%
USA, Purdue CMS T2			Purdue-Lear						
			Purdue-RCAC		1	72,053		72,054	
			Purdue-Steele			647		647	
T2_US_Purdue	1,000	432,000			1	72,700		72,701	17%
USA, UC San Diego CMS T2			UCSDT2		2,176	16,139		18,315	
T2_US_UCSD	1,000	432,000			2,176	16,139		18,315	4%
USA, U. Wisconsin CMS T2			GLOW			414,470		414,470	
T2_US_Wisconsin	1,000	432,000				414,470		414,470	96%
Grand Total	46,208	19,961,856		2,263,766	7,032,874	2,951,783	188,891	12,437,314	62%