



WLCG - Tier-2 Accounting Summary

September 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-ATLAS		592,251			592,251	
			Australia-UNIMELB-LCG2		46			46	
AU-ATLAS	150	64,800			592,297			592,297	914%
Austria, Austrian Tier-2 Federation			HEPHY-UIBK		3,210			3,210	
AT-HEPHY-VIENNA-UIBK	540	233,280			3,210			3,210	1%
Belgium, Belgian Tier-2 Federation			BEgrid-ULB-VUB			38,702		38,702	
			BelGrid-UCL			2,496		2,496	
BE-TIER2	1,050	453,600				41,198		41,198	9%
Canada-East Federation			TORONTO-LCG2						
CA-EAST-T2	200	86,400							
Canada-West Federation			ALBERTA-LCG2		55,110			55,110	
			SFU-LCG2		34,319			34,319	
			VICTORIA-LCG2		2,342			2,342	
CA-WEST-T2	300	129,600			91,771			91,771	71%
China, IHEP, Beijing			BEIJING-LCG2		28,727	18,156		46,883	
CN-IHEP	400	172,800			28,727	18,156		46,883	27%
Czech Rep., FZU AS, Prague			praguelcg2	34,618	15,828			50,446	
			prague_cesnet_lcg2	6	190			196	
CZ-Prague-T2	164	70,848		34,624	16,018			50,642	71%
Estonia, NICPB, Tallinn			T2_Estonia			123,870		123,870	
EE-NICPB	150	64,800				123,870		123,870	191%
Finland, NDGF/HIP Tier2			CSC						
FI-HIP-T2	564	243,648							
France, CC-IN2P3 AF			IN2P3-CC-T2	202,158	384,709	175,574	4,479	766,920	
FR-IN2P3-CC-T2	1,500	648,000		202,158	384,709	175,574	4,479	766,920	118%
France, GRIF, Paris			GRIF	125,099	548,810	130,220	6,819	810,948	
FR-GRIF	1,642	709,344		125,099	548,810	130,220	6,819	810,948	114%
France, LAPP, Annecy			IN2P3-LAPP		41,216		30,499	71,715	
FR-IN2P3-LAPP	600	259,200			41,216		30,499	71,715	28%
France, LPC, Clermont-Ferrand			IN2P3-LPC	35,815	102,722		4,520	143,057	
FR-IN2P3-LPC	800	345,600		35,815	102,722		4,520	143,057	41%
France, SUBATECH, Nantes			IN2P3-SUBATECH	97,817				97,817	
FR-IN2P3-SUBATECH	312	134,784		97,817				97,817	73%
Germany, GSI, Darmstadt			GSI-LCG2	62				62	
DE-GSI	660	285,120		62				62	0%
Germany, ATLAS Federation FR/W			UNI-FREIBURG		69,407			69,407	
			wuppertalprod		39,087			39,087	
DE-FREIBURG WUPPERTAL	584	252,288			108,494			108,494	43%

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Germany, ATLAS Federation, Munich			LRZ-LMU		61,132			61,132	
			MPPMU		435		436	871	
DE-MCAT	622	268,704			61,567		436	62,003	23%
Germany, ATLAS Federation, DESY			DESY-HH		22,438			22,438	
			DESY-ZN		71,520			71,520	
DE-DESY-ATLAS-T2	583	251,856			93,958			93,958	37%
Germany, CMS Federation			DESY-HH			278,531		278,531	
			DESY-ZN			230		230	
			RWTH-Aachen			642,406		642,406	
DE-DESY-RWTH-CMS-T2	1,050	453,600				921,167		921,167	203%
Hungary, HGCC Federation			BUDAPEST	15,792	163	6,404	25	22,384	
			ELTE			13,886		13,886	
HU-HGCC-T2	270	116,640		15,792	163	20,290	25	36,270	31%
India, TIFR, Mumbai			INDIACMS-TIFR			5,601		5,601	
IN-INDIACMS-TIFR	450	194,400				5,601		5,601	3%
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	21,072				21,072	
			INFN-CATANIA	26,473				26,473	
			INFN-FRASCATI						
			INFN-LNL-2	28,748				28,748	
			INFN-MILANO	28				28	
			INFN-NAPOLI-ATLAS	10				10	
			INFN-PISA	32				32	
			INFN-ROMA1						
			INFN-ROMA1-CMS						
			INFN-TORINO	44,951				44,951	
IT-ALICE-federation	750	324,000		121,314				121,314	37%
Italy, INFN ATLAS Federation			INFN-BARI		55			55	
			INFN-CATANIA						
			INFN-FRASCATI		66,227			66,227	
			INFN-LNL-2		508			508	
			INFN-MILANO		72,253			72,253	
			INFN-NAPOLI-ATLAS		53,906			53,906	
			INFN-PISA		565			565	
			INFN-ROMA1		177,576			177,576	
			INFN-ROMA1-CMS						
			INFN-TORINO		8			8	
IT-ATLAS-federation	750	324,000			371,098			371,098	115%

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Italy, INFN CMS Federation			INFN-BARI			21,908		21,908	
			INFN-CATANIA			931		931	
			INFN-FRASCATI						
			INFN-LNL-2			49,163		49,163	
			INFN-MILANO			58		58	
			INFN-NAPOLI-ATLAS			9		9	
			INFN-PISA			90,465		90,465	
			INFN-ROMA1						
			INFN-ROMA1-CMS			13,105		13,105	
			INFN-TORINO			57		57	
IT-CMS-federation	850	367,200				175,696		175,696	48%
Italy, INFN LHCb Federation			INFN-BARI				631	631	
			INFN-CATANIA				189	189	
			INFN-FRASCATI						
			INFN-LNL-2				5,244	5,244	
			INFN-MILANO				5,471	5,471	
			INFN-NAPOLI-ATLAS				867	867	
			INFN-PISA				2,188	2,188	
			INFN-ROMA1						
			INFN-ROMA1-CMS						
			INFN-TORINO				251	251	
IT-LHCb-federation	350	151,200					14,841	14,841	10%
Japan, ICEPP, Tokyo			TOKYO-LCG2		430,274			430,274	
JP-Tokyo-ATLAS-T2	1,000	432,000			430,274			430,274	100%
Republic of Korea, KISTI, Daejeon			KR-KISTI-GCRT-01	20,636				20,636	
KR-KISTI-T2	100	43,200		20,636				20,636	48%
Norway, UNINETT SIGMA Tier-2			NO-NORGRID-T2		85,226			85,226	
NO-NORDGRID-T2	110	47,520			85,226			85,226	179%
Pakistan, Pakistan Tier-2 Federation			NCP-LCG2		7	117	125	249	
			PAKGRID-LCG2	3	19	1	64	87	
PK-CMS-T2	795	343,440		3	26	118	189	336	0%
Poland, Polish Tier-2 Federation			CYFRONET-LCG2	120,150	31,408		933	152,491	
			PSNC	115,617	28,616	33		144,266	
			WARSAW-EGEE			14,461		14,461	
PL-TIER2-WLCG	1,250	540,000		235,767	60,024	14,494	933	311,218	58%

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Portugal, LIP Tier-2 Federation			LIP-Coimbra						
			LIP-Lisbon		74,454	87,632		162,086	
PT-LIP-LCG-Tier2	750	324,000			74,454	87,632		162,086	50%
Romania, Romanian Tier-2 Federation			NIHAM	357,938				357,938	
			RO-02-NIPNE		13,344			13,344	
			RO-07-NIPNE	39,512	14,572		99	54,183	
			RO-11-NIPNE				1,476	1,476	
RO-LCG	1,300	561,600		397,450	27,916		1,575	426,941	76%
Russian Fed., Russian Data-Intensive GRID			RU-Protvino-IHEP	17,794	32,288	16,213	2,340	68,635	
			ITEP	53,585	5,955	19,795	16,814	96,149	
			JINR-LCG2	240,080	160,818	143,637	5,686	550,221	
			RRC-KI	170,694	78,667	54,685	1,968	306,014	
			ru-Moscow-SINP-LCG2	23,873	35,282	21,537	5,083	85,775	
			ru-Moscow-FIAN-LCG2		209			209	
			ru-Moscow-MEPHI-LCG2		334			334	
			RU-SPbSU	371				371	
			RU-Phys-SPbSU						
			ru-PNPI	43,364	69,359	7,729	6,140	126,592	
			Ru-Troitsk-INR-LCG2	8		142	426	576	
RU-RDIG	3,000	1,296,000		549,769	382,912	263,738	38,457	1,234,876	
Slovenia, SiGNET			SiGNET		320,915			320,915	
SI-SiGNET	300	129,600			320,915			320,915	248%
Spain, ATLAS Federation			Ifae		99,249			99,249	
			IFIC-LCG2		37,101			37,101	
			UAM-LCG2		54,156			54,156	
ES-ATLAS-T2	875	378,000			190,506			190,506	50%
Spain, CMS Federation			CIEMAT-LCG2			105,899		105,899	
			IFCA-LCG2			59,488		59,488	
ES-CMS-T2	760	328,320				165,387		165,387	50%
Spain, LHCb Federation			UB-LCG2				2,002	2,002	
			USC-LCG2				11,469	11,469	
ES-LHCb-T2	296	127,872					13,471	13,471	11%
Sweden, SNIC Tier-2			SE-SNIC-T2	277,992	94,970			372,962	
SE-SNIC-T2	981	423,792		277,992	94,970			372,962	88%
Switzerland, CHIPP			CSCS-LCG2		26,698	53,103	6,362	86,163	
CH-CHIPP-CSCS	680	293,760			26,698	53,103	6,362	86,163	29%

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Taipei, Taiwan Analysis Facility Federation			TW-FTT		246,235	10,447		256,682	
TW-FTT-T2	400	172,800			246,235	10,447		256,682	149%
Turkey, Turkish Tier-2 Federation			TR-03-METU		107	3,458		3,565	
			TR-10-ULAKBIM		1	3,902		3,903	
TR-Tier2-federation	850	367,200			108	7,360		7,468	2%
UK, London Tier 2			UKI-LT2-Brunel	16	527	53,275	4,211	58,029	
			UKI-LT2-IC-HEP	27	66,938	63,179	4,832	134,976	
			UKI-LT2-IC-LeSC	7	42	21,951	58	22,058	
			UKI-LT2-QMUL		795	37	138	970	
			UKI-LT2-RHUL		142,991	114,760	1,168	258,919	
			UKI-LT2-UCL-CENTRAL						
			UKI-LT2-UCL-HEP		365			365	
UK-London-Tier2	1,017	439,344		50	211,658	253,202	10,407	475,317	108%
UK, NorthGrid			UKI-NORTHGRID-LANCS-HEP	7	115,706	49	457	116,219	
			UKI-NORTHGRID-LIV-HEP	14	119,445	18	7,914	127,391	
			UKI-NORTHGRID-MAN-HEP	3	91,739	164	6,192	98,098	
			UKI-NORTHGRID-SHEF-HEP	7	86,184	17	1,124	87,332	
UK-NorthGrid	725	313,200		31	413,074	248	15,687	429,040	137%
UK, ScotGrid			UKI-SCOTGRID-DURHAM		1,744	81	1,012	2,837	
			UKI-SCOTGRID-ECDF		50,968		17,529	68,497	
			UKI-SCOTGRID-GLASGOW		199,158	16	3,305	202,479	
UK-ScotGrid	925	399,600			251,870	97	21,846	273,813	69%
UK, SouthGrid			EFDA-JET	8	135	26	1,212	1,381	
			UKI-SOUTHGRID-BHAM-HEP	33	1,024	234	630	1,921	
			UKI-SOUTHGRID-BRIS-HEP	7	119	8,102	1,162	9,390	
			UKI-SOUTHGRID-CAM-HEP		13,937	25	7,974	21,936	
			UKI-SOUTHGRID-OX-HEP	9	62,438	142	3,075	65,664	
			UKI-SOUTHGRID-RALPP	6	92,242	88,035	4,530	184,813	
UK-SouthGrid	959	414,288		63	169,895	96,564	18,583	285,105	69%
Ukraine, Ukrainian Tier-2 Federation			Information to become available in 2008						
UA-	1,166	503,712							
USA, Great Lakes ATLAS T2			AGLT2		401,400			401,400	
US-AGLT2	965	416,880			401,400			401,400	96%
USA, Northeast ATLAS T2			BU_ATLAS_Tier2		290,869			290,869	
US-NET2	665	287,280			290,869			290,869	101%

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USA, Midwest ATLAS T2			MWT2_UC		514,930			514,930	
			MWT2_IU		348,442			348,442	
US-MWT2	1,112	480,384			863,372			863,372	180%
USA, Southwest ATLAS T2			OU_OCHEP_SWT2		169,851			169,851	
			SWT2_CPB		205,517			205,517	
			UTA_SWT2						
US-SWT2	1,386	598,752			375,368			375,368	63%
USA, SLAC ATLAS T2			WT2		324,410			324,410	
US-WT2	820	354,240			324,410			324,410	92%
USA, Caltech CMS T2			CIT_CMS_T2			327,856		327,856	
T2_US_Caltech	1,000	432,000				327,856		327,856	76%
USA, Florida CMS T2			Uflorida-PG		1	147,631		147,632	
			Uflorida-IHEPA		1	67,792		67,793	
			Uflorida-HPC		17	128,755		128,772	
T2_US_Florida	1,000	432,000			19	344,178		344,197	80%
USA, MIT CMS T2			MIT_CMS		2,742	490,625		493,367	
T2_US_MIT	1,000	432,000			2,742	490,625		493,367	114%
USA, Nebraska CMS T2			Nebraska		28	235,840		235,868	
T2_US_Nebraska	1,000	432,000			28	235,840		235,868	55%
USA, Purdue CMS T2			Purdue-Lear						
			Purdue-RCAC			1,171,169		1,171,169	
			Purdue-Steele			199,608		199,608	
T2_US_Purdue	1,000	432,000				1,370,777		1,370,777	317%
USA, UC San Diego CMS T2			UCSDT2			554,206		554,206	
T2_US_UCSD	1,000	432,000				554,206		554,206	128%
USA, U. Wisconsin CMS T2			GLOW			480,678		480,678	
T2_US_Wisconsin	1,000	432,000				480,678		480,678	111%
Grand Total	46,208	19,961,856		2,114,442	7,689,729	6,368,322	189,129	16,361,622	82%