



WLCG - Tier-2 Accounting Summary

August 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		389,406			389,406	
			Australia-UNIMELB-LCG2						
AU-ATLAS	150	66,960							
Austria, Austrian Tier-2 Federation			HEPHY-UIBK		7,302			7,302	
AT-HEPHY-VIENNA-UIBK	540	241,056			7,302			7,302	3%
Belgium, Belgian Tier-2 Federation			BEgrid-ULB-VUB						
			BelGrid-UCL			7,475		7,475	
BE-TIER2	1,050	468,720				7,475		7,475	2%
Canada-East Federation			TORONTO-LCG2						
CA-EAST-T2	200	89,280							
Canada-West Federation			ALBERTA-LCG2		14,398			14,398	
			SFU-LCG2		35,769			35,769	
			VICTORIA-LCG2		1,849			1,849	
CA-WEST-T2	300	133,920			52,016			52,016	39%
China, IHEP, Beijing			BEIJING-LCG2		5,744	11,159		16,903	
CN-IHEP	400	178,560			5,744	11,159		16,903	9%
Czech Rep., FZU AS, Prague			praguelcg2	40,259	19,082			59,341	
			prague_cesnet_lcg2	4	10,831			10,835	
CZ-Prague-T2	164	73,210		40,263	29,913			70,176	96%
Estonia, NICPB, Tallinn			T2_Estonia			113,602		113,602	
EE-NICPB	150	66,960				113,602		113,602	170%
Finland, NDGF/HIP Tier2			CSC						
FI-HIP-T2	564	251,770							
France, CC-IN2P3 AF			IN2P3-CC-T2	238,008	226,726	428,771	3,072	896,577	
FR-IN2P3-CC-T2	1,500	669,600		238,008	226,726	428,771	3,072	896,577	134%
France, GRIF, Paris			GRIF	230,593	221,459	149,312	96,821	698,185	
FR-GRIF	1,642	732,989		230,593	221,459	149,312	96,821	698,185	95%
France, LAPP, Annecy			IN2P3-LAPP		40,438		12,472	52,910	
FR-IN2P3-LAPP	600	267,840			40,438		12,472	52,910	20%
France, LPC, Clermont-Ferrand			IN2P3-LPC	138,067	91,370		7,893	237,330	
FR-IN2P3-LPC	800	357,120		138,067	91,370		7,893	237,330	66%
France, SUBATECH, Nantes			IN2P3-SUBATECH	241,223				241,223	
FR-IN2P3-SUBATECH	312	139,277		241,223				241,223	173%
Germany, GSI, Darmstadt			GSI-LCG2	8,888				8,888	
DE-GSI	660	294,624		8,888				8,888	3%
Germany, ATLAS Federation FR/W			UNI-FREIBURG		31,552			31,552	
			wuppertalprod		147,454			147,454	
DE-FREIBURGWUPPERTAL	584	260,698			179,006			179,006	69%

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Germany, ATLAS Federation, Munich			LRZ-LMU		33,036			33,036	
			MPPMU		1,326		40	1,366	
DE-MCAT	622	277,661			34,362		40	34,402	12%
Germany, ATLAS Federation, DESY			DESY-HH		59,174			59,174	
			DESY-ZN		84,453			84,453	
DE-DESY-ATLAS-T2	583	260,251			143,627			143,627	55%
Germany, CMS Federation			DESY-HH			261,902		261,902	
			DESY-ZN			68		68	
			RWTH-Aachen			379,409		379,409	
DE-DESY-RWTH-CMS-T2	1,050	468,720				641,379		641,379	137%
Hungary, HGCC Federation			BUDAPEST	20,366	37	5,258	82	25,743	
			ELTE						
HU-HGCC-T2	270	120,528		20,366	37	5,258	82	25,743	21%
India, TIFR, Mumbai			INDIACMS-TIFR			4,853		4,853	
IN-INDIACMS-TIFR	450	200,880				4,853		4,853	2%
India, VECC/SINP, Kolkata			IN-DAE-VECC-01						
IN-DAE-KOLKATA-TIER2	450	200,880							
Israel, HEP-IL Tier-2 Federation			WEIZMANN-LCG2						
			TAU-LCG2						
IL-HEPTier-2	280	124,992							
Italy, INFN ALICE Federation			INFN-BARI	5,520				5,520	
			INFN-CATANIA	42,015				42,015	
			INFN-FRASCATI						
			INFN-LNL-2	36,400				36,400	
			INFN-MILANO	1				1	
			INFN-NAPOLI-ATLAS	7				7	
			INFN-PISA	13				13	
			INFN-ROMA1						
			INFN-ROMA1-CMS						
			INFN-TORINO	67,367				67,367	
IT-ALICE-federation	750	334,800		151,323				151,323	45%
Italy, INFN ATLAS Federation			INFN-BARI		1,256			1,256	
			INFN-CATANIA						
			INFN-FRASCATI		54,552			54,552	
			INFN-LNL-2		741			741	
			INFN-MILANO		6,225			6,225	
			INFN-NAPOLI-ATLAS		57,143			57,143	
			INFN-PISA		33			33	
			INFN-ROMA1		98,927			98,927	
			INFN-ROMA1-CMS						
			INFN-TORINO		5			5	
IT-ATLAS-federation	750	334,800			218,882			218,882	65%

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Italy, INFN CMS Federation			INFN-BARI			10,806		10,806	
			INFN-CATANIA			790		790	
			INFN-FRASCATI						
			INFN-LNL-2			59,432		59,432	
			INFN-MILANO						
			INFN-NAPOLI-ATLAS			1		1	
			INFN-PISA			75,738		75,738	
			INFN-ROMA1						
			INFN-ROMA1-CMS			1,846		1,846	
			INFN-TORINO			1		1	
IT-CMS-federation	850	379,440				148,614		148,614	39%
Italy, INFN LHCb Federation			INFN-BARI				114	114	
			INFN-CATANIA				134	134	
			INFN-FRASCATI						
			INFN-LNL-2				13,245	13,245	
			INFN-MILANO						
			INFN-NAPOLI-ATLAS				273	273	
			INFN-PISA				300	300	
			INFN-ROMA1						
			INFN-ROMA1-CMS						
			INFN-TORINO				46	46	
IT-LHCb-federation	350	156,240					14,112	14,112	9%
Japan, ICEPP, Tokyo			TOKYO-LCG2		371,619			371,619	
JP-Tokyo-ATLAS-T2	1,000	446,400			371,619			371,619	83%
Republic of Korea, KISTI, Daejeon			KR-KISTI-GCRT-01						
KR-KISTI-T2	100	44,640							
Norway, UNINETT SIGMA Tier-2			NO-NORGRID-T2		54,452			54,452	
NO-NORDGRID-T2	110	49,104			54,452			54,452	111%
Pakistan, Pakistan Tier-2 Federation			NCP-LCG2		1,265		79	1,344	
			PAKGRID-LCG2	4	8	1	65	78	
PK-CMS-T2	795	354,888		4	1,273	1	144	1,422	0%
Poland, Polish Tier-2 Federation			CYFRONET-LCG2	190,616	57,878		712	249,206	
			PSNC	252,969	25,913		219	279,101	
			WARSAW-EGEE			19,738		19,738	
PL-TIER2-WLCG	1,250	558,000		443,585	83,791	19,738	931	548,045	98%

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Portugal, LIP Tier-2 Federation			LIP-Coimbra		2,217	10,763		12,980	
			LIP-Lisbon		19,756	44,733		64,489	
PT-LIP-LCG-Tier2	750	334,800			21,973	55,496		77,469	23%
Romania, Romanian Tier-2 Federation			NIHAM	572,288				572,288	
			RO-02-NIPNE		40,691			40,691	
			RO-07-NIPNE	7	57,543		118	57,668	
			RO-11-NIPNE				1,590	1,590	
RO-LCG	1,300	580,320		572,295	98,234		1,708	672,237	116%
Russian Fed., Russian Data-Intensive GRID			RU-Protvino-IHEP	3	81	2	221	307	
			ITEP	87,448	36,198	51,902	4,206	179,754	
			JINR-LCG2	284,092	85,195	40,789	237	410,313	
			RRC-KI	302,180	75,808	920	57	378,965	
			ru-Moscow-SINP-LCG2	36,345	38,627	12,400	925	88,297	
			ru-Moscow-FIAN-LCG2						
			ru-Moscow-MEPHI-LCG2		272			272	
			RU-SPbSU	726	123			849	
			RU-Phys-SPbSU						
			ru-PNPI	88,322	51,021	10,202	7,867	157,412	
			Ru-Troitsk-INR-LCG2	21,610			121	21,731	
RU-RDIG	3,000	1,339,200		820,726	287,325	116,215	13,634	1,237,900	
Slovenia, SiGNET			SiGNET		14,917			14,917	
SI-SiGNET	300	133,920			14,917			14,917	11%
Spain, ATLAS Federation			Ifae		44,985			44,985	
			IFIC-LCG2		24,861			24,861	
			UAM-LCG2		44,254			44,254	
ES-ATLAS-T2	875	390,600			114,100			114,100	29%
Spain, CMS Federation			CIEMAT-LCG2			101,922		101,922	
			IFCA-LCG2			51,443		51,443	
ES-CMS-T2	760	339,264				153,365		153,365	45%
Spain, LHCb Federation			UB-LCG2						
			USC-LCG2				35,535	35,535	
ES-LHCb-T2	296	132,134					35,535	35,535	27%
Sweden, SNIC Tier-2			SE-SNIC-T2	204,776	34,828			239,604	
SE-SNIC-T2	981	437,918		204,776	34,828			239,604	55%
Switzerland, CHIPP			CSCS-LCG2		47,392	138,474	13,900	199,766	
CH-CHIPP-CSCS	680	303,552			47,392	138,474	13,900	199,766	66%

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Taipei, Taiwan Analysis Facility Federation			TW-FTT		171,576	92,079		263,655	
TW-FTT-T2	400	178,560			171,576	92,079		263,655	148%
Turkey, Turkish Tier-2 Federation			TR-03-METU		5,336	10,856		16,192	
			TR-10-ULAKBIM		2,062	303		2,365	
TR-Tier2-federation	850	379,440			7,398	11,159		18,557	5%
UK, London Tier 2			UKI-LT2-Brunel	13	16,473	51,514	4,253	72,253	
			UKI-LT2-IC-HEP	12	31,085	104,337	8,210	143,644	
			UKI-LT2-IC-LeSC	5	34	31,542	269	31,850	
			UKI-LT2-QMUL		30,305	23	308	30,636	
			UKI-LT2-RHUL		82,657	56,763	34,047	173,467	
			UKI-LT2-UCL-CENTRAL						
			UKI-LT2-UCL-HEP						
UK-London-Tier2	1,017	453,989		30	160,554	244,179	47,087	451,850	100%
UK, NorthGrid			UKI-NORTHGRID-LANCS-HEP	3	56,338		322	56,663	
			UKI-NORTHGRID-LIV-HEP	7	74,354		260	74,621	
			UKI-NORTHGRID-MAN-HEP	4	69,745		384	70,133	
			UKI-NORTHGRID-SHEF-HEP	4	50,025	1	213	50,243	
UK-NorthGrid	725	323,640		18	250,462	1	1,179	251,660	78%
UK, ScotGrid			UKI-SCOTGRID-DURHAM		5,764	41	263	6,068	
			UKI-SCOTGRID-ECDF		24,811		538	25,349	
			UKI-SCOTGRID-GLASGOW		171,538	24	26,481	198,043	
UK-ScotGrid	925	412,920			202,113	65	27,282	229,460	56%
UK, SouthGrid			EFDA-JET	5	133	26	2,462	2,626	
			UKI-SOUTHGRID-BHAM-HEP	14	287	26	844	1,171	
			UKI-SOUTHGRID-BRIS-HEP	3	271	16,147	729	17,150	
			UKI-SOUTHGRID-CAM-HEP		7,020		12,196	19,216	
			UKI-SOUTHGRID-OX-HEP	7	64,011	96	3,905	68,019	
			UKI-SOUTHGRID-RALPP	4	89,037	110,465	683	200,189	
UK-SouthGrid	959	428,098		33	160,759	126,760	20,819	308,371	72%
Ukraine, Ukrainian Tier-2 Federation			Information to become available in 2008						
UA-	1,166	520,502							
USA, Great Lakes ATLAS T2			AGLT2		334,118			334,118	
US-AGLT2	965	430,776			334,118			334,118	78%
USA, Northeast ATLAS T2			BU_ATLAS_Tier2		286,762			286,762	
US-NET2	665	296,856			286,762			286,762	97%

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USA, Midwest ATLAS T2			MWT2_UC		543,532			543,532	
			MWT2_IU		323,999			323,999	
US-MWT2	1,112	496,397			867,531			867,531	175%
USA, Southwest ATLAS T2			OU_OCHEP_SWT2		146,587			146,587	
			SWT2_CPB						
			UTA_SWT2		268,205			268,205	
US-SWT2	1,386	618,710			414,792			414,792	67%
USA, SLAC ATLAS T2			WT2		216,527			216,527	
US-WT2	820	366,048			216,527			216,527	59%
USA, Caltech CMS T2			CIT_CMS_T2			314,558		314,558	
T2_US_Caltech	1,000	446,400				314,558		314,558	70%
USA, Florida CMS T2			Uflorida-PG		1	96,446		96,447	
			Uflorida-IHEPA		1	34,356		34,357	
			Uflorida-HPC		9	82,022		82,031	
T2_US_Florida	1,000	446,400			11	212,824		212,835	48%
USA, MIT CMS T2			MIT_CMS		2,816	301,186		304,002	
T2_US_MIT	1,000	446,400			2,816	301,186		304,002	68%
USA, Nebraska CMS T2			Nebraska		5	179,274		179,279	
T2_US_Nebraska	1,000	446,400			5	179,274		179,279	40%
USA, Purdue CMS T2			Purdue-Lear						
			Purdue-RCAC			780,243		780,243	
			Purdue-Steele			141,394		141,394	
T2_US_Purdue	1,000	446,400				921,637		921,637	206%
USA, UC San Diego CMS T2			UCSDT2			181,422		181,422	
T2_US_UCSD	1,000	446,400				181,422		181,422	41%
USA, U. Wisconsin CMS T2			GLOW		2	982,308		982,310	
T2_US_Wisconsin	1,000	446,400			2	982,308		982,310	220%
Grand Total	46,208	20,627,252		3,110,198	5,845,618	5,561,164	296,711	14,813,691	72%