



WLCG - Tier-2 Accounting Summary

September 2007

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		3,668			3,668	
AU-ATLAS	120	51,840			3,668			3,668	7%
Austria, Austrian Tier-2 Federation			HEPHY-UIBK		1,168			1,168	
AT-HEPHY-VIENNA-UIBK	120	51,840			1,168			1,168	2%
Belgium, Belgian Tier-2 Federation			BEgrid-ULB-VUB			24,245		24,245	
			BelGrid-UCL			16,127		16,127	
BE-TIER2	600	259,200				40,372		40,372	16%
China, IHEP, Beijing			BEIJING-LCG2		310	62		372	
CN-IHEP	500	216,000			310	62		372	0%
Czech Rep., FZU AS, Prague			praguelcg2	37,018	19,570			56,588	
			prague_cesnet_lcg2	1	3,587			3,588	
CZ-Prague-T2	80	34,560		37,019	23,157			60,176	174%
Finland, NDGF/HIP Tier2			no information received from collaboration board member						
FI-	187	80,784							
France, CC-IN2P3 AF			IN2P3-CC-T2						
FR-IN2P3-CC-T2	320	138,240							
France, GRIF, Paris			GRIF	197,099	62,341	673	1,176	261,289	
FR-GRIF	529	228,528		197,099	62,341	673	1,176	261,289	114%
France, LPC, Clermont-Ferrand			IN2P3-LPC	116,239	143,666		3,860	263,765	
FR-IN2P3-LPC	450	194,400		116,239	143,666		3,860	263,765	136%
France, SUBATECH, Nantes			IN2P3-SUBATECH	200,483				200,483	
FR-IN2P3-SUBATECH	224	96,768		200,483				200,483	207%
Germany, GSI, Darmstadt			GSI-LCG2	3,267				3,267	
DE-GSI	260	112,320		3,267				3,267	3%
Germany, DESY, Hamburg			DESY-HH		49,780			49,780	
			DESY-ZN		81,063		2,470	83,533	
DE- DESY-LHCb-T2	80	34,560			130,843		2,470	133,313	386%



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Germany, ATLAS Federation FR/W			UNI-FREIBURG		20,312			20,312	
			wuppertalprod		22,854			22,854	
DE-FREIBURGWUPPERTAL	80	34,560			43,166			43,166	125%
Germany, ATLAS Federation, Munich			no information received from collaboration board member						
DE-	60	25,920							
Germany, CMS Federation			DESY-HH			39,325		39,325	
			DESY-ZN			2		2	
			RWTH-Aachen			21,552		21,552	
DE-DESY-RWTH-CMS-T2	500	216,000				60,879		60,879	28%
India, TIFR, Mumbai			INDIACMS-TIFR						
IN-INDIACMS-TIFR	130	56,160							
India, VECC/SINP, Kolkata			IN-DAE-VECC-01	6,671				6,671	
IN-DAE-KOLKATA-TIER2	282	121,824		6,671				6,671	5%
Israel, HEP-IL Tier-2 Federation			WEIZMANN-LCG2		76		1	77	
			TAU-LCG2	2	101		99	202	
IL-HEPTier-2	61	26,352		2	177		100	279	1%
Italy, INFN ALICE Federation			INFN-BARI	2,019				2,019	
			INFN-CATANIA						
			INFN-LNL-2	24,621				24,621	
			INFN-NAPOLI-ATLAS	2				2	
			INFN-MILANO	5				5	
			INFN-PISA	1				1	
			INFN-TORINO	60,752				60,752	
IT-ALICE-federation	550	237,600		87,400				87,400	37%



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Italy, INFN ATLAS Federation			INFN-NAPOLI-ATLAS		16,033			16,033	
			INFN-BARI		920			920	
			INFN-LNL-2		7,854			7,854	
			INFN-MILANO		38,158			38,158	
			INFN-FRASCATI		7,508			7,508	
			INFN-TORINO		2			2	
			INFN-PISA		17,080			17,080	
			INFN-ROMA1		19,270			19,270	
IT-ATLAS-federation	400	172,800			106,825			106,825	62%
Italy, INFN CMS Federation			INFN-BARI			30,372		30,372	
			INFN-LNL-2			62,019		62,019	
			INFN-NAPOLI-ATLAS			4		4	
			INFN-PISA			193,696		193,696	
			INFN-ROMA1						
			INFN-ROMA1-CMS			7,684		7,684	
			INFN-TORINO			2		2	
IT-CMS-federation	400	172,800				293,775		293,775	170%
Italy, INFN LHCb Federation			INFN-BARI						
			INFN-CATANIA				20	20	
			INFN-LNL-2				15	15	
			INFN-MILANO				56	56	
			INFN-NAPOLI-ATLAS				452	452	
			INFN-PISA				331	331	
			INFN-TORINO				531	531	
IT-LHCb-federation	150	64,800					1,405	1,405	2%
Japan, ICEPP, Tokyo			TOKYO-LCG2		150,146			150,146	
JP-Tokyo-ATLAS-T2	1,000	432,000			150,146			150,146	35%
Norway, UNINETT SIGMA Tier-2			no information received from collaboration board member						
NO-									



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Pakistan, Pakistan Tier-2 Federation			NCP-LCG2				1	1	
			PAKGRID-LCG2	3	9	5	164	181	
PK-CMS-T2	410	177,120		3	9	5	165	182	0%
Poland, Polish Tier-2 Federation			AMD64.PSNC.PL						
			CYFRONET-IA64	11,848				11,848	
			CYFRONET-LCG2	2	43,652		1,658	45,312	
			egee.man.poznan.pl	549				549	
			WARSAW-EGEE	4	5,599	65,815	4,926	76,344	
PL-TIER2-WLCG	650	280,800		12,403	49,251	65,815	6,584	134,053	48%
Portugal, LIP Tier-2 Federation			LIP-Coimbra		504	94		598	
			LIP-Lisbon		10,895	6,086		16,981	
PT-LIP-LCG-Tier2	500	216,000			11,399	6,180		17,579	8%
Romania, Romanian Tier-2 Federation			NIHAM	146,636				146,636	
			RO-01-ICI						
			RO-02-NIPNE		20,846			20,846	
			RO-03-UPB						
			RO-07-NIPNE	13,157	51,895		227	65,279	
			RO-11-NIPNE				111	111	
RO-LCG	735	317,520		159,793	72,741		338	232,872	73%
Russian Fed., Russian Data-Intensive GRID			RU-Protvino-IHEP	726	29,216	709	805	31,456	
			ITEP	107,142	29,816	375	729	138,062	
			JINR-LCG2	222,970	5,667	6	5	228,648	
			RRC-KI	5	3	2	25	35	
			RU-Moscow-SINP-LCG2						
			RU-Moscow-FIAN-LCG2		760			760	
			RU-Moscow-MEPHI-LCG2		133			133	
			RU-Phys-SPbSU						
			RU-Troitsk-INR-LCG2	193		6	151	350	
RU-RDIG	3,000	1,296,000		331,036	65,595	1,098	1,715	399,444	31%
Slovenia, SiGNET			SiGNET		45,860			45,860	
SI-SiGNET	200	86,400			45,860			45,860	53%
Spain, ATLAS Federation			Ifae		17,322			17,322	



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			IFIC-LCG2		61,634			61,634	
			UAM-LCG2		117,671			117,671	
ES-ATLAS-T2 tbc	117	50,544			196,627			196,627	389%
Spain, CMS Federation			CIEMAT-LCG2			25,706		25,706	
			IFCA-LCG2			3,085		3,085	
ES-CMS-T2	380	164,160				28,791		28,791	18%
Spain, LHCb Federation			UB-LCG2				5,168	5,168	
			USC-LCG2				4,427	4,427	
ES-LHCb-T2	118	50,976					9,595	9,595	19%
Sweden, SNIC Tier-2			no information received from collaboration board member						
SE-	244	105,408							
Switzerland, CHIPP			CSCS-LCG2		15,611	16,776	521	32,908	
CH-CHIPP-CSCS	200	86,400			15,611	16,776	521	32,908	38%
Taipei, Taiwan Analysis Facility Federation			TW-FTT		11,077	469		11,546	
TW-	300	129,600			11,077	469		11,546	9%
UK, London Tier 2			UKI-LT2-Brunel	5	46,011	40,272	2,466	88,754	
			UKI-LT2-IC-HEP	13	46,384	88,292	65	134,754	
			UKI-LT2-IC-LeSC	3	5,453	2	189	5,647	
			UKI-LT2-QMUL	8	35,527	2,524	110	38,169	
			UKI-LT2-RHUL	2	1,075	30,695	597	32,369	
			UKI-LT2-UCL-CENTRAL	4	705	36	632	1,377	
			UKI-LT2-UCL-HEP		895			895	
UK-London-Tier2	2,500	1,080,000		35	136,050	161,821	4,059	301,965	28%



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Federation	2007 CPU Pledge (KSI2K)	pledge inc. efficiency (KSI2K-Hrs)	Site(s)	ALICE	ATLAS	CMS	LHCb	Total	delivered as % of pledge
UK, NorthGrid			UKI-NORTHGRID-LANCS-HEF	3	34,199	1	1,200	35,403	
			UKI-NORTHGRID-LIV-HEP	4	76,399	10	1,067	77,480	
			UKI-NORTHGRID-MAN-HEP	5	131,862	3	10,564	142,434	
			UKI-NORTHGRID-SHEF-HEP	3	666		2	671	
UK-NorthGrid	2,600	1,123,200		15	243,126	14	12,833	255,988	23%
UK, ScotGrid			UKI-SCOTGRID-DURHAM	2	21,796		839	22,637	
			ScotGRID-Edinburgh	1	62		139	202	
			UKI-SCOTGRID-GLASGOW		76,009		1,863	77,872	
UK-ScotGrid	340	146,880		3	97,867		2,841	100,711	69%
UK, SouthGrid			EFDA-JET	1	255			256	
			UKI-SOUTHGRID-BHAM-HEP	890	3,567	6	1	4,464	
			UKI-SOUTHGRID-BRIS-HEP	2	1,621	848	150	2,621	
			UKI-SOUTHGRID-CAM-HEP		3,544		204	3,748	
			UKI-SOUTHGRID-OX-HEP	3	12,170		1,579	13,752	
			UKI-SOUTHGRID-RALPP	1	12,707	5,677	61	18,446	
UK-SouthGrid	940	406,080		897	33,864	6,531	1,995	43,287	11%
Ukraine, Ukrainian Tier-2 Federation			no information received from collaboration board member						
UA-	600	259,200							
USA, Great Lakes ATLAS T2 *			AGLT2		95,341			95,341	
US-AGLT2	581	250,992			95,341			95,341	38%
USA, Northeast ATLAS T2 *			BU_ATLAS_Tier2						
			BU_ATLAS_Tier2o						
US-NET2	394	170,208							



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USA, Midwest ATLAS T2 *			MWT2_UC		120,882			120,882	
			MWT2_IU		143,284			143,284	
			UC_Teraport		18,971			18,971	
			UC_ATLAS_MWT2		2,286			2,286	
			IU_ATLAS_Tier2		8			8	
			IU_OSG						
US-MWT2	826	356,832			285,431			285,431	80%
USA, Southwest ATLAS T2 *			OU_OCHEP_SWT2		82,675			82,675	
			OU_OSCER_ATLAS		98,649			98,649	
			UTA_DPCC		45,043			45,043	
			UTA_SWT2						
US-SWT2	998	431,136			226,367		226,367	53%	
USA, SLAC ATLAS T2 *			PROD_SLAC		173,851			173,851	
US-WT2	550	237,600			173,851		173,851	73%	
USA, Caltech CMS T2			CIT_CMS_T2			132,912		132,912	
US-Caltech	470	203,040				132,912		132,912	65%
USA, Florida CMS T2			Uflorida-PG			244,425		244,425	
			Uflorida-IHEPA						
US-Florida	470	203,040				244,425		244,425	120%
USA, MIT CMS T2			MIT_CMS			173,148		173,148	
US-MIT	470	203,040				173,148		173,148	85%
USA, Nebraska CMS T2			Nebraska			233,363		233,363	
US-Nebraska	470	203,040				233,363		233,363	115%
USA, Purdue CMS T2			Purdue-Lear			99,896		99,896	
			Purdue-RCAC			44,917		44,917	
US-Purdue	470	203,040				144,813		144,813	71%
USA, UC San Diego CMS T2			UCSDT2			65,491		65,491	
US-UCSD	470	203,040				65,491		65,491	32%



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USA, U. Wisconsin CMS T2			GLOW			383,107		383,107	
US-Wisconsin	470	203,040				383,107		383,107	189%
Grand Total	27,556	11,904,192		1,152,365	2,425,534	2,060,522	49,657	5,688,078	48%

* OSG accounting data for certain ATLAS sites was not transferred in September. The problem has been resolved and data will be included for the October report.