



WLCG - Tier-2 Accounting Summary

January 2008

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		2,175			2,175	
AU-ATLAS	40	17,856			2,175			2,175	12%
Austria, Austrian Tier-2 Federation			HEPHY-UIBK		12,542			12,542	
AT-HEPHY-VIENNA-UIBK	420	187,488			12,542			12,542	7%
Belgium, Belgian Tier-2 Federation			BEgrid-ULB-VUB			23,692		23,692	
			BelGrid-UCL			1,842		1,842	
BE-TIER2	600	267,840				25,534		25,534	10%
China, IHEP, Beijing			BEIJING-LCG2		32	1,575		1,607	
CN-IHEP	400	178,560			32	1,575		1,607	1%
Czech Rep., FZU AS, Prague			prague_lcg2	20,588	22,029			42,617	
			prague_cesnet_lcg2	4	127			131	
CZ-Prague-T2	80	35,712		20,592	22,156			42,748	120%
Finland, NDGF/HIP Tier2			HIP-T2						
FI-HIP-T2	187	83,477							
France, CC-IN2P3 AF			IN2P3-CC-T2	121,725	265,488	30,540	2,521	420,274	
FR-IN2P3-CC-T2	320	142,848		121,725	265,488	30,540	2,521	420,274	294%
France, GRIF, Paris			GRIF	114,449	110,443	23,104	2,798	250,794	
FR-GRIF	583	260,251		114,449	110,443	23,104	2,798	250,794	96%
France, LAPP, Annecy			IN2P3-LAPP		52,620		33,977	86,597	
FR-IN2P3-LAPP	350	156,240			52,620		33,977	86,597	55%
France, LPC, Clermont-Ferrand			IN2P3-LPC	38,165	90,424		114	128,703	
FR-IN2P3-LPC	450	200,880		38,165	90,424		114	128,703	64%
France, SUBATECH, Nantes			IN2P3-SUBATECH	122,681				122,681	
FR-IN2P3-SUBATECH	224	99,994		122,681				122,681	123%
Germany, GSI, Darmstadt			GSI-LCG2	6,690				6,690	
DE-GSI	260	116,064		6,690				6,690	6%
Germany, DESY, Hamburg			DESY-HH						
			DESY-ZN				83	83	
DE- DESY-LHCb-T2	78	34,819					83	83	0%
Germany, ATLAS Federation FR/W			UNI-FREIBURG		33,948			33,948	
			wuppertalprod		55,607			55,607	
DE-FREIBURGWUPPERTAL	40	17,856			89,555			89,555	502%

Federation	2007 CPU Pledge (KSI2K)	pledge inc. efficiency (KSI2K- Hrs)	Site(s)	ALICE	ATLAS	CMS	LHCb	Total	delivered as % of pledge
Germany, ATLAS Federation, Munich			LRZ-LMU		11,121			11,121	
			MPPMU		1,942			1,942	
DE-MCAT	60	26,784			13,063			13,063	49%
Germany, CMS Federation			DESY-HH			3,232		3,232	
			DESY-ZN						
			RWTH-Aachen			21,152		21,152	
DE-DESY-RWTH-CMS-T2	500	223,200				24,384		24,384	11%
Hungary, HGCC Federation			BUDAPEST	4,506	572	545	2	5,625	
			ELTE						
HU-HGCC-T2	200	89,280		4,506	572	545	2	5,625	6%
India, TIFR, Mumbai			INDIACMS-TIFR						
IN-INDIACMS-TIFR	130	58,032							
India, VECC/SINP, Kolkata			IN-DAE-VECC-01	3,767				3,767	
IN-DAE-KOLKATA-TIER2	282	125,885		3,767				3,767	3%
Israel, HEP-IL Tier-2 Federation			WEIZMANN-LCG2		2,406			2,406	
			TAU-LCG2	2	10,248		13	10,263	
IL-HEPTier-2	61	27,230		2	12,654		13	12,669	47%
Italy, INFN ALICE Federation			INFN-BARI	26,165				26,165	
			INFN-CATANIA	84,841				84,841	
			INFN-FRASCATI						
			INFN-LNL-2	31,295				31,295	
			INFN-MILANO						
			INFN-NAPOLI-ATLAS						
			INFN-PISA						
			INFN-ROMA1						
			INFN-ROMA1-CMS						
			INFN-TORINO	81,846				81,846	
IT-ALICE-federation	550	245,520		224,147				224,147	91%
Italy, INFN ATLAS Federation			INFN-BARI		1,607			1,607	
			INFN-CATANIA						
			INFN-FRASCATI		12,659			12,659	
			INFN-LNL-2		13,889			13,889	
			INFN-MILANO		47,929			47,929	
			INFN-NAPOLI-ATLAS		42,277			42,277	
			INFN-PISA						
			INFN-ROMA1		48,522			48,522	
			INFN-ROMA1-CMS						
			INFN-TORINO		4			4	
IT-ATLAS-federation	400	178,560			166,887			166,887	93%

Federation	2007 CPU Pledge (KSI2K)	pledge inc. efficiency (KSI2K- Hrs)	Site(s)	ALICE	ATLAS	CMS	LHCb	Total	delivered as % of pledge
Italy, INFN CMS Federation			INFN-BARI			21,329		21,329	
			INFN-CATANIA						
			INFN-FRASCATI						
			INFN-LNL-2			31,376		31,376	
			INFN-MILANO						
			INFN-NAPOLI-ATLAS						
			INFN-PISA			223,629		223,629	
			INFN-ROMA1						
			INFN-ROMA1-CMS						
			INFN-TORINO						
IT-CMS-federation	400	178,560				276,334		276,334	155%
Italy, INFN LHCb Federation			INFN-BARI				278	278	
			INFN-CATANIA						
			INFN-FRASCATI						
			INFN-LNL-2				27	27	
			INFN-MILANO						
			INFN-NAPOLI-ATLAS						
			INFN-PISA						
			INFN-ROMA1						
			INFN-ROMA1-CMS						
			INFN-TORINO				713	713	
IT-LHCb-federation	150	66,960					1,018	1,018	2%
Japan, ICEPP, Tokyo			TOKYO-LCG2		225,105			225,105	
JP-Tokyo-ATLAS-T2	1,000	446,400			225,105			225,105	50%
Norway, UNINETT SIGMA Tier-2			NO-NORGRID-T2						
NO-NORDGRID-T2									
Pakistan, Pakistan Tier-2 Federation			NCP-LCG2		62	96	40	198	
			PAKGRID-LCG2		927			927	
PK-CMS-T2	410	183,024			989	96	40	1,125	1%
Poland, Polish Tier-2 Federation			AMD64.PSNC.PL		50			50	
			CYFRONET-IA64	12,789	126			12,915	
			CYFRONET-LCG2	8	280,755		119	280,882	
			egee.man.poznan.pl	30,570	6			30,576	
			WARSAW-EGEE	5	1,268	4,963	1,497	7,733	
PL-TIER2-WLCG	650	290,160		43,372	282,205	4,963	1,616	332,156	114%

Federation	2007 CPU Pledge (KSI2K)	pledge inc. efficiency (KSI2K- Hrs)	Site(s)	ALICE	ATLAS	CMS	LHCb	Total	delivered as % of pledge
Portugal, LIP Tier-2 Federation			LIP-Coimbra		10,614	168		10,782	
			LIP-Lisbon		1,410	3,355		4,765	
PT-LIP-LCG-Tier2	500	223,200			12,024	3,523		15,547	7%
Romania, Romanian Tier-2 Federation			NIHAM	166,458				166,458	
			RO-02-NIPNE		15,715			15,715	
			RO-07-NIPNE	56,849	30,729		25	87,603	
			RO-11-NIPNE				86	86	
RO-LCG	735	328,104		223,307	46,444		111	269,862	82%
Russian Fed., Russian Data-Intensive GRID			RU-Protvino-IHEP	56	23,253	8	91	23,408	
			ITEP	104,313	20,738	12,147	6,739	143,937	
			JINR-LCG2	215,135	19,766	20,184	41	255,126	
			RRC-KI						
			RU-Moscow-SINP-LCG2	32,978	28,168	14	4,057	65,217	
			RU-Moscow-FIAN-LCG2		176			176	
			RU-Moscow-MEPHI-LCG2		20			20	
			RU-SPbSU	967				967	
			RU-Phys-SPbSU						
			RU-PNPI	32,719	14,189			46,908	
			RU-Troitsk-INR-LCG2	25,415		9	116	25,540	
RU-RDIG	3,000	1,339,200		411,583	106,310	32,362	11,044	561,299	42%
Slovenia, SiNET			SiNET		137,331			137,331	
SI-SiNET	200	89,280			137,331			137,331	154%
Spain, ATLAS Federation			Ifae		6,897			6,897	
			IFIC-LCG2		66,881			66,881	
			UAM-LCG2		109,151			109,151	
ES-ATLAS-T2 tbc	117	52,229			182,929			182,929	350%
Spain, CMS Federation			CIEMAT-LCG2			82,018		82,018	
			IFCA-LCG2			1,940		1,940	
ES-CMS-T2	380	169,632				83,958		83,958	49%
Spain, LHCb Federation			UB-LCG2				4	4	
			USC-LCG2				147	147	
ES-LHCb-T2	118	52,675					151	151	0%
Sweden, SNIC Tier-2			SE-SNIC-T2						
SE-SNIC-T2	244	108,922							
Switzerland, CHIPP			CSCS-LCG2		30,111	9,674	30	39,815	
CH-CHIPP-CSCS	200	89,280			30,111	9,674	30	39,815	45%

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Taipei, Taiwan Analysis Facility Federation			TW-FTT						
TW-	300	133,920							
UK, London Tier 2			UKI-LT2-Brunel	13	87,763	58,044	3,182	149,002	
			UKI-LT2-IC-HEP	23	31,028	47,881	10	78,942	
			UKI-LT2-IC-LeSC	5	1,271	62	18	1,356	
			UKI-LT2-QMUL	20	20,608	3,119		23,747	
			UKI-LT2-RHUL	3	17,484	1,730	25	19,242	
			UKI-LT2-UCL-CENTRAL						
			UKI-LT2-UCL-HEP		10,184			10,184	
UK-London-Tier2	2,500	1,116,000		64	168,338	110,836	3,235	282,473	25%
UK, NorthGrid			UKI-NORTHGRID-LANCS-HEP	5	102,855	110	81	103,051	
			UKI-NORTHGRID-LIV-HEP	4	53,529		571	54,104	
			UKI-NORTHGRID-MAN-HEP	8	179,860		324	180,192	
			UKI-NORTHGRID-SHEF-HEP	5	13,650		721	14,376	
UK-NorthGrid	2,600	1,160,640		22	349,894	110	1,697	351,723	30%
UK, ScotGrid			UKI-SCOTGRID-DURHAM	2	18,264	107	1	18,374	
			ScotGRID-Edinburgh	1	60		58	119	
			UKI-SCOTGRID-GLASGOW		189,916		1,771	191,687	
UK-ScotGrid	340	151,776		3	208,240	107	1,830	210,180	138%
UK, SouthGrid			EFDA-JET	6	17,301		54	17,361	
			UKI-SOUTHGRID-BHAM-HEP	1,494	2,787			4,281	
			UKI-SOUTHGRID-BRIS-HEP	3	2,078	4	254	2,339	
			UKI-SOUTHGRID-CAM-HEP		31			31	
			UKI-SOUTHGRID-OX-HEP	9	60,586		7,892	68,487	
			UKI-SOUTHGRID-RALPP		24,522	2,107	13	26,642	
UK-SouthGrid	940	419,616		1,512	107,305	2,111	8,213	119,141	28%
Ukraine, Ukrainian Tier-2 Federation			Information to become available in 2008						
UA-	600	267,840							
USA, Great Lakes ATLAS T2			AGLT2		379,690			379,690	
US-AGLT2	581	259,358			379,690			379,690	146%
USA, Northeast ATLAS T2			BU_ATLAS_Tier2		218,644			218,644	
			BU_ATLAS_Tier2o						
US-NET2	394	175,882			218,644			218,644	124%

Federation	2007 CPU Pledge (KSI2K)	pledge inc. efficiency (KSI2K-Hrs)	Site(s)	ALICE	ATLAS	CMS	LHCb	Total	delivered as % of pledge
USA, Midwest ATLAS T2			MWT2_UC		248,252			248,252	
			MWT2_IU		189,834			189,834	
			UC_Teraport		2			2	
			UC_ATLAS_MWT2		56,631			56,631	
			IU_ATLAS_Tier2						
			IU_OSG		8			8	
US-MWT2	826	368,726			494,727			494,727	134%
USA, Southwest ATLAS T2			OU_OCHEP_SWT2		195,017			195,017	
			OU_OSCER_ATLAS		18,639			18,639	
			UTA_DPCC		23,360			23,360	
			UTA_SWT2		314,794			314,794	
US-SWT2	998	445,507			551,810			551,810	124%
USA, SLAC ATLAS T2			PROD_SLAC		368,012			368,012	
US-WT2	550	245,520			368,012			368,012	150%
USA, Caltech CMS T2			CIT_CMS_T2			48,577		48,577	
US-Caltech	470	209,808				48,577		48,577	23%
USA, Florida CMS T2			Uflorida-PG			86,134		86,134	
			Uflorida-IHEPA						
			Uflorida-HPC						
US-Florida	470	209,808				86,134		86,134	41%
USA, MIT CMS T2			MIT_CMS			158,070		158,070	
US-MIT	470	209,808				158,070		158,070	75%
USA, Nebraska CMS T2			Nebraska			334,071		334,071	
US-Nebraska	470	209,808				334,071		334,071	159%
USA, Purdue CMS T2			Purdue-Lear			33,435		33,435	
			Purdue-RCAC			67,317		67,317	
US-Purdue	470	209,808				100,752		100,752	48%
USA, UC San Diego CMS T2			UCSDT2		1	142,339		142,340	
US-UCSD	470	209,808			1	142,339		142,340	68%
USA, U. Wisconsin CMS T2			GLOW			175,525		175,525	
US-Wisconsin	470	209,808				175,525		175,525	84%
Grand Total	28,238	12,605,443		1,336,587	4,708,720	1,675,224	68,493	7,789,024	62%