



WLCG - Tier-2 Accounting Summary

December 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		6,579			6,579	
AU-ATLAS	40	17,856			6,579			6,579	37%
Austria, Austrian Tier-2 Federation			HEPHY-UIBK		3,781			3,781	
AT-HEPHY-VIENNA-UIBK	420	187,488			3,781			3,781	2%
Belgium, Belgian Tier-2 Federation			BEgrid-ULB-VUB			60,443		60,443	
			BelGrid-UCL			3,577		3,577	
BE-TIER2	600	267,840				64,020		64,020	24%
China, IHEP, Beijing			BEIJING-LCG2						
CN-IHEP	400	178,560							
Czech Rep., FZU AS, Prague			prague_lcg2	32,670	33,014			65,684	
			prague_cesnet_lcg2						
CZ-Prague-T2	80	35,712		32,670	33,014			65,684	184%
Finland, NDGF/HIP Tier2			HIP-T2						
FI-HIP-T2	187	83,477							
France, CC-IN2P3 AF			IN2P3-CC-T2	109,599	312,116	181,361	27,555	630,631	
FR-IN2P3-CC-T2	320	142,848		109,599	312,116	181,361	27,555	630,631	441%
France, GRIF, Paris			GRIF	106,231	102,961	42,441	19,664	271,297	
FR-GRIF	583	260,251		106,231	102,961	42,441	19,664	271,297	104%
France, LAPP, Annecy			IN2P3-LAPP		36,396		45,788	82,184	
FR-IN2P3-LAPP	350	156,240			36,396		45,788	82,184	53%
France, LPC, Clermont-Ferrand			IN2P3-LPC	100,514	140,765		49	241,328	
FR-IN2P3-LPC	450	200,880		100,514	140,765		49	241,328	120%
France, SUBATECH, Nantes			IN2P3-SUBATECH	155,547				155,547	
FR-IN2P3-SUBATECH	224	99,994		155,547				155,547	156%
Germany, GSI, Darmstadt			GSI-LCG2	15,285				15,285	
DE-GSI	260	116,064		15,285				15,285	13%
Germany, DESY, Hamburg			DESY-HH						
			DESY-ZN				9,388	9,388	
DE-DESY-LHCb-T2	78	34,819					9,388	9,388	27%
Germany, ATLAS Federation FR/W			UNI-FREIBURG		26,243			26,243	
			wuppertalprod		23,522			23,522	
DE-FREIBURGWUPPERTAL	40	17,856			49,765			49,765	279%

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		11,540			11,540	
			MPPMU		22			22	
DE-MCAT	60	26,784			11,562			11,562	43%
Germany, CMS Federation			DESY-HH			60,931		60,931	
			DESY-ZN			458		458	
			RWTH-Aachen			46,593		46,593	
DE-DESY-RWTH-CMS-T2	500	223,200				107,982		107,982	48%
India, TIFR, Mumbai			INDIACMS-TIFR						
IN-INDIACMS-TIFR	130	58,032							
India, VECC/SINP, Kolkata			IN-DAE-VECC-01	5,442				5,442	
IN-DAE-KOLKATA-TIER2	282	125,885		5,442				5,442	4%
Israel, HEP-IL Tier-2 Federation			WEIZMANN-LCG2	1	1,256		89	1,346	
			TAU-LCG2	3	2,203	15	30	2,251	
IL-HEPTier-2	61	27,230		4	3,459	15	119	3,597	13%
Italy, INFN ALICE Federation			INFN-BARI	14,751				14,751	
			INFN-CATANIA	54,528				54,528	
			INFN-FRASCATI						
			INFN-LNL-2	12,499				12,499	
			INFN-MILANO						
			INFN-NAPOLI-ATLAS						
			INFN-PISA						
			INFN-ROMA1						
			INFN-ROMA1-CMS						
			INFN-TORINO	93,032				93,032	
IT-ALICE-federation	550	245,520		174,810				174,810	71%
Italy, INFN ATLAS Federation			INFN-BARI		1,090			1,090	
			INFN-CATANIA						
			INFN-FRASCATI		21,904			21,904	
			INFN-LNL-2		13,889			13,889	
			INFN-MILANO		49,142			49,142	
			INFN-NAPOLI-ATLAS		55,223			55,223	
			INFN-PISA						
			INFN-ROMA1						
			INFN-ROMA1-CMS						
			INFN-TORINO		69			69	
IT-ATLAS-federation	400	178,560			141,317			141,317	79%

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			916		916	
			INFN-CATANIA						
			INFN-FRASCATI						
			INFN-LNL-2			50,662		50,662	
			INFN-MILANO						
			INFN-NAPOLI-ATLAS						
			INFN-PISA			268,906		268,906	
			INFN-ROMA1						
			INFN-ROMA1-CMS						
			INFN-TORINO						
IT-CMS-federation	400	178,560				320,484		320,484	179%
Italy, INFN LHCb Federation			INFN-BARI				174	174	
			INFN-CATANIA						
			INFN-FRASCATI						
			INFN-LNL-2				14	14	
			INFN-MILANO						
			INFN-NAPOLI-ATLAS						
			INFN-PISA						
			INFN-ROMA1						
			INFN-ROMA1-CMS						
			INFN-TORINO				721	721	
IT-LHCb-federation	150	66,960					909	909	1%
Japan, ICEPP, Tokyo			TOKYO-LCG2		186,254			186,254	
JP-Tokyo-ATLAS-T2	1,000	446,400			186,254			186,254	42%
Norway, UNINETT SIGMA Tier-2			NO-NORDGRID-T2						
NO-NORDGRID-T2									
Pakistan, Pakistan Tier-2 Federation			NCP-LCG2		71	311	7	389	
			PAKGRID-LCG2		362		110	472	
PK-CMS-T2	410	183,024			433	311	117	861	0%
Poland, Polish Tier-2 Federation			AMD64.PSNC.PL		116	30		146	
			CYFRONET-IA64	4,503	9			4,512	
			CYFRONET-LCG2	9	134,178	80	6,150	140,417	
			egee.man.poznan.pl	41,841	309	359		42,509	
			WARSAW-EGEE	7	1,430	17,280	8,140	26,857	
PL-TIER2-WLCG	650	290,160		46,360	136,042	17,749	14,290	214,441	74%

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		12,392	35		12,427	
			LIP-Lisbon		6,126	2,176		8,302	
PT-LIP-LCG-Tier2	500	223,200			18,518	2,211		20,729	9%
Romania, Romanian Tier-2 Federation			NIHAM	5				5	
			RO-01-ICI						
			RO-02-NIPNE		11,988			11,988	
			RO-03-UPB						
			RO-07-NIPNE	75,890	22,612		36	98,538	
			RO-11-NIPNE				44	44	
RO-LCG	735	328,104		75,895	34,600		80	110,575	34%
Russian Fed., Russian Data-Intensive GRID			RU-Protvino-IHEP	128	23,789	4	75	23,996	
			ITEP	93,566	22,311	1,469	3,256	120,602	
			JINR-LCG2	232,140	23,633	12,524	74	268,371	
			RRC-KI						
			RU-Moscow-SINP-LCG2	9,163	38,488	265	15,013	62,929	
			RU-Moscow-FIAN-LCG2		36	14		50	
			RU-Moscow-MEPHI-LCG2		11			11	
			RU-SPbSU	2,013				2,013	
			RU-Phys-SPbSU						
			RU-PNPI-LCG2	99,234	46,003	1,567	10,707	157,511	
			RU-Troitsk-INR-LCG2	7,923		139	455	8,517	
RU-RDIG	3,000	1,339,200		444,167	154,271	15,982	29,580	644,000	48%
Slovenia, SiNET			SINET		21,903			21,903	
SI-SINET	200	89,280			21,903			21,903	25%
Spain, ATLAS Federation			Ifae		9,978			9,978	
			IFIC-LCG2		66,389			66,389	
			UAM-LCG2		30,665			30,665	
ES-ATLAS-T2 tbc	117	52,229			107,032			107,032	205%
Spain, CMS Federation			CIEMAT-LCG2			248,485		248,485	
			IFCA-LCG2			5,280		5,280	
ES-CMS-T2	380	169,632				253,765		253,765	150%
Spain, LHCb Federation			UB-LCG2				1	1	
			USC-LCG2				10,863	10,863	
ES-LHCb-T2	118	52,675					10,864	10,864	21%
Sweden, SNIC Tier-2			SE-SNIC-T2						
SE-SNIC-T2	244	108,922							
Switzerland, CHIPP			CSCS-LCG2		9,741	38,617	3,774	52,132	
CH-CHIPP-CSCS	200	89,280			9,741	38,617	3,774	52,132	58%

Federation	2007 CPU Pledge (KSI2K)	pledge inc. efficiency (KSI2K- Hrs)	Site(s)	ALICE	ATLAS	CMS	LHCb	Total	delivered as % of pledge
Taipei, Taiwan Analysis Facility Federation			TW-FTT		15,705	6,720		22,425	
TW-	300	133,920			15,705	6,720		22,425	17%
UK, London Tier 2			UKI-LT2-Brunel	17	47,785	36,177	5,990	89,969	
			UKI-LT2-IC-HEP	28	55,551	24,131	27	79,737	
			UKI-LT2-IC-LeSC	6	2,951	97	10	3,064	
			UKI-LT2-QMUL	16	67,061	3,490	812	71,379	
			UKI-LT2-RHUL	4	7,497	1,581	10	9,092	
			UKI-LT2-UCL-CENTRAL						
			UKI-LT2-UCL-HEP		8,136			8,136	
UK-London-Tier2	2,500	1,116,000		71	188,981	65,476	6,849	261,377	23%
UK, NorthGrid			UKI-NORTHGRID-LANCS-HEP	5	91,955	228	80	92,268	
			UKI-NORTHGRID-LIV-HEP	8	32,850	32	1,354	34,244	
			UKI-NORTHGRID-MAN-HEP	12	122,744	212	55,590	178,558	
			UKI-NORTHGRID-SHEF-HEP	7	20,185	32	15,285	35,509	
UK-NorthGrid	2,600	1,160,640		32	267,734	504	72,309	340,579	29%
UK, ScotGrid			UKI-SCOTGRID-DURHAM	5	7,405	32	404	7,846	
			ScotGRID-Edinburgh	2	173		196	371	
			UKI-SCOTGRID-GLASGOW		46,832	51	7,901	54,784	
UK-ScotGrid	340	151,776		7	54,410	83	8,501	63,001	42%
UK, SouthGrid			EFDA-JET	5	9,442	39	3,342	12,828	
			UKI-SOUTHGRID-BHAM-HEP	2,200	2,664	13	89	4,966	
			UKI-SOUTHGRID-BRIS-HEP	5	2,345	31	207	2,588	
			UKI-SOUTHGRID-CAM-HEP		37		10	47	
			UKI-SOUTHGRID-OX-HEP	2	3,931	53	3,740	7,726	
			UKI-SOUTHGRID-RALPP		59,586	14,031	7,624	81,241	
UK-SouthGrid	940	419,616		2,212	78,005	14,167	15,012	109,396	26%
Ukraine, Ukrainian Tier-2 Federation			Information to become available in 2008						
UA-	600	267,840							
USA, Great Lakes ATLAS T2			AGLT2		210,408			210,408	
US-AGLT2	581	259,358			210,408			210,408	81%
USA, Northeast ATLAS T2			BU_ATLAS_Tier2		157,502			157,502	
			BU_ATLAS_Tier2o						
US-NET2	394	175,882			157,502			157,502	90%

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		222,360			222,360	
			MWT2_IU		177,253			177,253	
			UC_Teraport						
			UC_ATLAS_MWT2		55,432			55,432	
			IU_ATLAS_Tier2						
			IU_OSG		10,745			10,745	
US-MWT2	826	368,726			465,790			465,790	126%
USA, Southwest ATLAS T2			OU_OCCHP_SWT2		203,529			203,529	
			OU_OSCER_ATLAS		19,736			19,736	
			UTA_DPCC		34,814			34,814	
			UTA_SWT2						
US-SWT2	998	445,507			258,079			258,079	58%
USA, SLAC ATLAS T2			PROD_SLAC		252,730			252,730	
US-WT2	550	245,520			252,730			252,730	103%
USA, Caltech CMS T2			CIT_CMS_T2			127,069		127,069	
US-Caltech	470	209,808				127,069		127,069	61%
USA, Florida CMS T2			Uflorida-PG			95,145		95,145	
			Uflorida-IHEPA						
			Uflorida-HPC						
US-Florida	470	209,808				95,145		95,145	45%
USA, MIT CMS T2			MIT_CMS			272,988		272,988	
US-MIT	470	209,808				272,988		272,988	130%
USA, Nebraska CMS T2			Nebraska			179,329		179,329	
US-Nebraska	470	209,808				179,329		179,329	85%
USA, Purdue CMS T2			Purdue-Lear			77,106		77,106	
			Purdue-RCAC			53,518		53,518	
US-Purdue	470	209,808				130,624		130,624	62%
USA, UC San Diego CMS T2			UCSDT2		1	128,303		128,304	
US-UCSD	470	209,808			1	128,303		128,304	61%
USA, U. Wisconsin CMS T2			GLOW			407,331		407,331	
US-Wisconsin	470	209,808				407,331		407,331	194%
Grand Total	28,038	12,516,163		1,268,846	3,459,854	2,472,677	264,848	7,466,225	60%