



WLCG - Tier-2 Accounting Summary

May 2008

Efficiency factor for Tier-2 sites - utilisation 60% of pledge as specified in TDR

CPU usage in month (KSIZK-Hrs)

Federation - Accounting Name	2008 CPU Pledge (KSIZK)	pledge inc. efficiency (KSIZK-Hrs)	Site(s)	ALICE	ATLAS	CMS	LHCb	Total	used as % of pledge
Australia, University of Melbourne			Australia-UNIMELB-LCG2						
AU-ATLAS	150	66,960							
Austria, Austrian Tier-2 Federation			HEPHY-UIBK		3,914			3,914	
AT-HEPHY-VIENNA-UIBK	540	241,056			3,914			3,914	2%
Belgium, Belgian Tier-2 Federation			BEGrid-ULB-VUB			1,483		1,483	
			BelGrid-UCL			20,707		20,707	
BE-TIER2	1,050	468,720				22,190		22,190	5%
Canada-East Federation			TORONTO-LCG2		43,734			43,734	
CA-EAST-T2	200	89,280			43,734			43,734	49%
Canada-West Federation			ALBERTA-LCG2						
			SFU-LCG2		108,657			108,657	
			VICTORIA-LCG2		3,316			3,316	
CA-WEST-T2	300	133,920			111,973			3,316	2%
China, IHEP, Beijing			BEIJING-LCG2		8,602	18,787		27,389	
CN-IHEP	400	178,560			8,602	18,787		27,389	15%
Czech Rep., FZU AS, Prague			praguelcg2	2	9			11	
			prague_cesnet_lcg2	2	8			10	
CZ-Prague-T2	164	73,210		4	17			21	0%
Estonia, NICPB, Tallinn			T2_Estonia			9,680	653	10,333	
EE-NICPB	150	66,960				9,680	653	10,333	15%
Finland, NDGF/HIP Tier2			CSC						
FI-HIP-T2	564	251,770							
France, CC-IN2P3 AF			IN2P3-CC-T2	1,752	334,605	234,991	2,035	573,383	
FR-IN2P3-CC-T2	1,500	669,600		1,752	334,605	234,991	2,035	573,383	86%
France, GRIF, Paris			GRIF	10,451	206,885	37,144	1,158	255,638	
FR-GRIF	1,642	732,989		10,451	206,885	37,144	1,158	255,638	35%
France, LAPP, Annecy			IN2P3-LAPP		55,881		7,740	63,621	
FR-IN2P3-LAPP	600	267,840			55,881		7,740	63,621	24%
France, LPC, Clermont-Ferrand			IN2P3-LPC	8	26,384		1,799	28,191	
FR-IN2P3-LPC	800	357,120		8	26,384		1,799	28,191	8%
France, SUBATECH, Nantes			IN2P3-SUBATECH	125,917				125,917	
FR-IN2P3-SUBATECH	312	139,277		125,917				125,917	90%
Germany, GSI, Darmstadt			GSI-LCG2	31,560				31,560	
DE-GSI	660	294,624		31,560				31,560	11%
Germany, ATLAS Federation FR/W			UNI-FREIBURG		23,688			23,688	
			wuppertalprod		37,876			37,876	
DE-FREIBURGWUPPERTAL	584	260,698			61,564			61,564	24%

Federation - Accounting Name	2008 CPU Pledge (KSI2K)	pledge inc. efficiency (KSI2K- Hrs)	Site(s)	ALICE	ATLAS	CMS	LHCb	Total	used as % of pledge
Germany, ATLAS Federation, Munich			LRZ-LMU		62,849			62,849	
			MPPMU		41,003			41,003	
DE-MCAT	622	277,661			103,852			103,852	37%
Germany, ATLAS Federation, DESY			DESY-HH		116,409			116,409	
			DESY-ZN		138,920			138,920	
DE-DESY-ATLAS-T2	583	260,251			255,329			255,329	98%
Germany, CMS Federation			DESY-HH			122,550		122,550	
			DESY-ZN			710		710	
			RWTH-Aachen			650,297		650,297	
DE-DESY-RWTH-CMS-T2	1,050	468,720				773,557		773,557	165%
Hungary, HGCC Federation			BUDAPEST	12,775	4	28,849	601	42,229	
			ELTE						
HU-HGCC-T2	270	120,528		12,775	4	28,849	601	42,229	35%
India, TIFR, Mumbai			INDIACMS-TIFR			16		16	
IN-INDIACMS-TIFR	450	200,880				16		16	0%
India, VECC/SINP, Kolkata			IN-DAE-VECC-01	1,172				1,172	
IN-DAE-KOLKATA-TIER2	450	200,880		1,172				1,172	1%
Israel, HEP-IL Tier-2 Federation			WEIZMANN-LCG2						
			TAU-LCG2						
IL-HEPTier-2	280	124,992							
Italy, INFN ALICE Federation			INFN-BARI	649				649	
			INFN-CATANIA	51,575				51,575	
			INFN-FRASCATI						
			INFN-LNL-2	14,149				14,149	
			INFN-MILANO	3				3	
			INFN-NAPOLI-ATLAS	5				5	
			INFN-PISA	9				9	
			INFN-ROMA1						
			INFN-ROMA1-CMS						
			INFN-TORINO	10,379				10,379	
IT-ALICE-federation	750	334,800		76,769				76,769	23%
Italy, INFN ATLAS Federation			INFN-BARI		4			4	
			INFN-CATANIA						
			INFN-FRASCATI		12,673			12,673	
			INFN-LNL-2		3,779			3,779	
			INFN-MILANO		18,797			18,797	
			INFN-NAPOLI-ATLAS		28,504			28,504	
			INFN-PISA		225			225	
			INFN-ROMA1		36,737			36,737	
			INFN-ROMA1-CMS						
			INFN-TORINO		2			2	
IT-ATLAS-federation	750	334,800			100,721			100,721	30%

Federation - Accounting Name	2008 CPU Pledge (KSI2K)	pledge inc. efficiency (KSI2K-Hrs)	Site(s)	ALICE	ATLAS	CMS	LHCb	Total	used as % of pledge
Italy, INFN CMS Federation			INFN-BARI			67,341		67,341	
			INFN-CATANIA			19		19	
			INFN-FRASCATI						
			INFN-LNL-2			160,106		160,106	
			INFN-MILANO			198		198	
			INFN-NAPOLI-ATLAS			514		514	
			INFN-PISA			155,372		155,372	
			INFN-ROMA1						
			INFN-ROMA1-CMS			1,937		1,937	
			INFN-TORINO			120		120	
IT-CMS-federation	850	379,440				385,607		385,607	102%
Italy, INFN LHCb Federation			INFN-BARI				141	141	
			INFN-CATANIA				159	159	
			INFN-FRASCATI						
			INFN-LNL-2				611	611	
			INFN-MILANO				718	718	
			INFN-NAPOLI-ATLAS				528	528	
			INFN-PISA				3,701	3,701	
			INFN-ROMA1						
			INFN-ROMA1-CMS						
			INFN-TORINO				22	22	
IT-LHCb-federation	350	156,240					5,880	5,880	4%
Japan, ICEPP, Tokyo			TOKYO-LCG2		159,445			159,445	
JP-Tokyo-ATLAS-T2	1,000	446,400			159,445			159,445	36%
Republic of Korea, KISTI, Daejeon			KR-KISTI-GCRT-01	11				11	
KR-KISTI-T2	100	44,640		11				11	0%
Norway, UNINETT SIGMA Tier-2			NO-NORDGRID-T2						
NO-NORDGRID-T2	110	49,104							
Pakistan, Pakistan Tier-2 Federation			NCP-LCG2		18	145	129	292	
			PAKGRID-LCG2				153	153	
PK-CMS-T2	795	354,888			18	145	282	445	0%
Poland, Polish Tier-2 Federation			CYFRONET-IA64	4				4	
			CYFRONET-LCG2	3	145,782	405	207	146,397	
			PSNC	8,749	62,202	191		71,142	
			WARSAW-EGEE			52,632	519	53,151	
PL-TIER2-WLCG	1,250	558,000		8,756	207,984	53,228	726	270,694	49%

Federation - Accounting Name	2008 CPU Pledge (KSI2K)	pledge inc. efficiency (KSI2K- Hrs)	Site(s)	ALICE	ATLAS	CMS	LHCb	Total	used as % of pledge
Portugal, LIP Tier-2 Federation			LIP-Coimbra		2,178	10,719		12,897	
			LIP-Lisbon		270	2,227		2,497	
PT-LIP-LCG-Tier2	750	334,800			2,448	12,946		15,394	5%
Romania, Romanian Tier-2 Federation			NIHAM	91,735				91,735	
			RO-02-NIPNE		9,811			9,811	
			RO-07-NIPNE	37,363	41,118		172	78,653	
			RO-11-NIPNE				245	245	
RO-LCG	1,300	580,320		129,098	50,929		417	180,444	31%
Russian Fed., Russian Data-Intensive GRID			RU-Protvino-IHEP	40,699	1,851	30,978	910	74,438	
			ITEP	58,647	9,684	24,413	5,407	98,151	
			JINR-LCG2	3,379	8,489	68,443	4,467	84,778	
			RRC-KI	4,808	4,983	41,445	1,086	52,322	
			ru-Moscow-SINP-LCG2	49,354	4,249	13,688	361	67,652	
			ru-Moscow-FIAN-LCG2						
			ru-Moscow-MEPHI-LCG2		3,297			3,297	
			RU-SPbSU	2,353			1	2,354	
			RU-Phys-SPbSU						
			ru-PNPI	69,519	2,781	26,211	561	99,072	
			Ru-Troitsk-INR-LCG2						
RU-RDIG	3,000	1,339,200		228,759	35,334	205,178	12,793	482,064	
Slovenia, SiGNET			SIGNET		152,594			152,594	
SI-SIGNET	300	133,920			152,594			152,594	114%
Spain, ATLAS Federation			Ifae		3,713			3,713	
			IFIC-LCG2		17,401			17,401	
			UAM-LCG2		57,664			57,664	
ES-ATLAS-T2	875	390,600			78,778			78,778	20%
Spain, CMS Federation			CIEMAT-LCG2			165,088		165,088	
			IFCA-LCG2			49,162		49,162	
ES-CMS-T2	760	339,264				214,250		214,250	63%
Spain, LHCb Federation			UB-LCG2				364	364	
			USC-LCG2				402	402	
ES-LHCb-T2	296	132,134					766	766	1%
Sweden, SNIC Tier-2			SE-SNIC-T2						
SE-SNIC-T2	981	437,918							
Switzerland, CHIPP			CSCS-LCG2		33,625	99,704	466	133,795	
CH-CHIPP-CSCS	680	303,552			33,625	99,704	466	133,795	44%

Federation - Accounting Name	2008 CPU Pledge (KSI2K)	pledge inc. efficiency (KSI2K-Hrs)	Site(s)	ALICE	ATLAS	CMS	LHCb	Total	used as % of pledge
Taipei, Taiwan Analysis Facility Federation			TW-FTT		23,494	24,104		47,598	
TW-FTT-T2	400	178,560			23,494	24,104		47,598	27%
Turkey, Turkish Tier-2 Federation			TR-03-METU		200	7,150		7,350	
			TR-10-ULAKBIM		336	366		702	
TR-Tier2-federation	850	379,440			536	7,516		8,052	2%
UK, London Tier 2			UKI-LT2-Brunel	13	20,009	29,856	924	50,802	
			UKI-LT2-IC-HEP	14	23,378	44,568	251	68,211	
			UKI-LT2-IC-LeSC	4	144	2	12	162	
			UKI-LT2-QMUL						
			UKI-LT2-RHUL		25,861	7,032	77	32,970	
			UKI-LT2-UCL-CENTRAL						
			UKI-LT2-UCL-HEP		9,438			9,438	
UK-London-Tier2	1,017	453,989		31	78,830	81,458	1,264	161,583	36%
UK, NorthGrid			UKI-NORTHGRID-LANCS-HEP	2	67,681	140	1,904	69,727	
			UKI-NORTHGRID-LIV-HEP	5	150,645	450	265	151,365	
			UKI-NORTHGRID-MAN-HEP	3	60,230	890	511	61,634	
			UKI-NORTHGRID-SHEF-HEP	3	61,336	197	869	62,405	
UK-NorthGrid	725	323,640		13	339,892	1,677	3,549	345,131	107%
UK, ScotGrid			UKI-SCOTGRID-DURHAM		10,573	164	74	10,811	
			ScotGRID-Edinburgh				2	2	
			UKI-SCOTGRID-ECDF		12,019		185	12,204	
			UKI-SCOTGRID-GLASGOW		51,764	135	127	52,026	
UK-ScotGrid	925	412,920			74,356	299	388	75,043	18%
UK, SouthGrid			EFDA-JET	4	2,641	307	208	3,160	
			UKI-SOUTHGRID-BHAM-HEP	11	2,215	442	1,236	3,904	
			UKI-SOUTHGRID-BRIS-HEP	1	43	10,942	1,021	12,007	
			UKI-SOUTHGRID-CAM-HEP		10,191	461	236	10,888	
			UKI-SOUTHGRID-OX-HEP	3	49,458	728	321	50,510	
			UKI-SOUTHGRID-RALPP	2	40,967	73,405	2,173	116,547	
UK-SouthGrid	959	428,098		21	105,515	86,285	5,195	197,016	46%
Ukraine, Ukrainian Tier-2 Federation			Information to become available in 2008						
UA-	1,166	520,502							
USA, Great Lakes ATLAS T2			AGLT2		436,225			436,225	
US-AGLT2	965	430,776			436,225			436,225	101%
USA, Northeast ATLAS T2			BU_ATLAS_Tier2		279,571			279,571	
US-NET2	665	296,856			279,571			279,571	94%

Federation - Accounting Name	2008 CPU Pledge (KSI2K)	pledge inc. efficiency (KSI2K-Hrs)	Site(s)	ALICE	ATLAS	CMS	LHCb	Total	used as % of pledge
USA, Midwest ATLAS T2			MWT2_UC		472,136			472,136	
			MWT2_IU		312,710			312,710	
US-MWT2	1,112	496,397			784,846			784,846	158%
USA, Southwest ATLAS T2			OU_OCHEP_SWT2		242,221			242,221	
			SWT2-CPB		99,498			99,498	
			UTA_SWT2		182,438			182,438	
US-SWT2	1,386	618,710			524,157			524,157	85%
USA, SLAC ATLAS T2			PROD_SLAC		431,536			431,536	
US-WT2	820	366,048			431,536			431,536	118%
USA, Caltech CMS T2			CIT_CMS_T2			612,637		612,637	
T2_US_Caltech	1,000	446,400				612,637		612,637	137%
USA, Florida CMS T2			Uflorida-PG			84,808		84,808	
			Uflorida-IHEPA			54,235		54,235	
			Uflorida-HPC		19	162,747		162,766	
T2_US_Florida	1,000	446,400			19	301,790		301,809	68%
USA, MIT CMS T2			MIT_CMS			205,576		205,576	
T2_US_MIT	1,000	446,400				205,576		205,576	46%
USA, Nebraska CMS T2			Nebraska		2	222,690		222,692	
T2_US_Nebraska	1,000	446,400			2	222,690		222,692	50%
USA, Purdue CMS T2			Purdue-Lear						
			Purdue-RCAC		1	295,719		295,720	
			Purdue-Steele			59,466		59,466	
T2_US_Purdue	1,000	446,400			1	355,185		355,186	80%
USA, UC San Diego CMS T2			UCSDT2		7	147,940		147,947	
T2_US_UCSD	1,000	446,400			7	147,940		147,947	33%
USA, U. Wisconsin CMS T2			GLOW			549,209		549,209	
T2_US_Wisconsin	1,000	446,400				549,209		549,209	123%
Grand Total	46,208	20,627,252		627,097	5,113,607	4,692,638	45,712	10,479,054	51%