



CERN Tier0 / CAF	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	233400	264100	220800	Offered	62000	75000	106100	21000	264100
				Required	62000	75000	106100	21000	264100
				% of Req.	100%	100%	100%	100%	100%
Disk (Tbytes)	14790	19100	22800	Offered	6100	7000	4500	1500	19100
				Required	6100	7000	4500	1500	19100
				% of Req.	100%	100%	100%	100%	100%
Tape (Tbytes)	31600	43100	49700	Offered	6800	12200	21600	2500	43100
				Required	6800	12200	21600	2500	43100
				% of Req.	100%	100%	100%	100%	100%

Canada Tier1	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	10800	11300	11150	Offered		11300			11300
				% of Total		5%			5%
Disk (Tbytes)	1095	1240	1350	Offered		1240			1240
				% of Total		5%			5%
Tape (Tbytes)	710	1505	1950	Offered		1505			1505
				% of Total		5%			5%

KIT	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	58730	83550	90425	Offered	29250	28250	15000	11050	83550
				% of Total	25%	13%	10%	17%	15%
Disk (Tbytes)	6924	7805	9780	Offered	2130	3125	1950	600	7805
				% of Total	27%	13%	10%	17%	14%
Tape (Tbytes)	8932	13290	18485	Offered	3250	3750	5700	590	13290
				% of Total	25%	12%	11%	17%	13%

IN2P3 Lyon (note 1)	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	44186	72331	74361	Offered	8190	33222	11146	19773	72331
				% of Total	7%	15%	7%	30%	13%
Disk (Tbytes)	5109	6761	7761	Offered	708	3646	1342	1065	6761
				% of Total	9%	15%	7%	30%	12%
Tape (Tbytes)	5300	10426	13515	Offered	1069	4425	3876	1056	10426
				% of Total	8%	15%	7%	30%	11%

INFN CNAF	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	44000	59500	61000	Offered	18000	18500	15000	8000	59500
				% of Total	15%	8%	10%	12%	11%
Disk (Tbytes)	5300	6250	7700	Offered	1350	2250	2200	450	6250
				% of Total	17%	9%	11%	13%	11%
Tape (Tbytes)	5450	9900	15850	Offered	1900	2400	5200	400	9900
				% of Total	15%	8%	10%	12%	10%

Netherlands LHC/Tier1 (Note 2)	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	47296	61296	63296	Offered	6808	39496		14992	61296
				% of Total	6%	17%		23%	15%
Disk (Tbytes)	4186	4736	5286	Offered	478	3451		807	4736
				% of Total	6%	14%		23%	13%
Tape (Tbytes)	3629	5593	7193	Offered	492	4101		1000	5593
				% of Total	4%	14%		29%	12%

NDGF Tier1	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	13710	18319	18561	Offered	6883	11436			18319
				% of Total	6%	5%			5%
Disk (Tbytes)	1720	1964	2080	Offered	703	1261			1964
				% of Total	9%	5%			6%
Tape (Tbytes)	1770	2566	2960	Offered	1042	1524			2566
				% of Total	8%	5%			6%

Spain PIC	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	17238	23272	23778	Offered		11774	6971	4527	23272
				% of Total		5%	5%	7%	5%
Disk (Tbytes)	1968	2438	2846	Offered		1292	902	244	2438
				% of Total		5%	5%	7%	5%
Tape (Tbytes)	2136	4234	5233	Offered		1568	2424	242	4234
				% of Total		5%	5%	7%	5%



Taipei ASGC	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	28000	32000	36000	Offered		16000	16000		32000
				% of Total		7%	11%		8%
Disk (Tbytes)	3500	3600	3800	Offered		1800	1800		3600
				% of Total		7%	9%		8%
Tape (Tbytes)	3500	4000	4000	Offered		2000	2000		4000
				% of Total		7%	4%		5%

UK Tier1 (Note 3)	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	44376	54736	54946	Offered	2340	28250	12056	12090	54736
				% of Total	2%	13%	8%	19%	10%
Disk (Tbytes)	4638	5469	6333	Offered	158	3100	1560	651	5469
				% of Total	2%	13%	8%	19%	10%
Tape (Tbytes)	4877	8860	11345	Offered	260	3763	4192	645	8860
				% of Total	2%	13%	8%	19%	9%

US-ATLAS Tier1	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	49680	51980	51290	Offered		51980			51980
				% of Total		23%			23%
Disk (Tbytes)	5037	5704	6210	Offered		5704			5704
				% of Total		23%			23%
Tape (Tbytes)	3266	6923	8970	Offered		6923			6923
				% of Total		23%			23%

US-CMS Tier1	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	44400	56000	56000	Offered			56000		56000
				% of Total			37%		37%
Disk (Tbytes)	4100	6500	6500	Offered			6500		6500
				% of Total			33%		33%
Tape (Tbytes)	11000	21000	26000	Offered			21000		21000
				% of Total			40%		40%

Summary Ext. Tier1s	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	402416	524284	540807	Offered	71471	250208	132173	70432	524284
				Required	117000	226000	150700	65000	558700
				Balance	-39%	11%	-12%	8%	-6%
Disk (Tbytes)	43577	52467	59646	Offered	5527	26869	16254	3817	52467
				Required	7900	24800	19500	3500	55700
				Balance	-30%	8%	-17%	9%	-6%
Tape (Tbytes)	50570	88297	115501	Offered	8013	31959	44392	3933	88297
				Required	13000	30100	52400	3470	98970
				Balance	-38%	6%	-15%	13%	-11%

Ext. Tier1 Requ. 2011	ALICE	ATLAS	CMS	LHCb	SUM
CPU (HEP-SPEC06)	117000	226000	150700	65000	558700
Disk (Tbytes)	7900	24800	19500	3500	55700
Tape (Tbytes)	13000	30100	52400	3470	98970

TIER 1 Notes

Note 1: France. The final budget allocation will only be known in January 2011, depending on the outcome there is a risk that these pledges may decrease.

Note 2: Netherlands. These pledges are unconfirmed due to incomplete negotiations with the Funding Agency. The current assumption is that they will be accepted before end 2010 enabling procurement to commence however the compute and disk resource deployment will be delayed, available by summer 2011.

Note 3: UK. Tape is provisioned on demand. The full pledge will not be deployed until required.

See also the online WLCG Resources Pledges database at: <http://gstat-wlcg.cern.ch/apps/pledges/>

	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
Austria, Austrian Tier-2 Federation (Note 1)									
CPU (HEP-SPEC06)	8850	5057	5057	Offered		1857	3200		5057
				% of Total		1%	1%		1%
Disk (Tbytes)	594	420	420	Offered		120	300		420
				% of Total		0%	2%		1%
Australia, University of Melbourne (Note 2)									
CPU (HEP-SPEC06)	2500	4000	6500	Offered		4000			4000
				% of Total		1%			1%
Disk (Tbytes)	250	400	700	Offered		400			400
				% of Total		1%			1%
Belgium, Belgian Tier-2 Fed. FNRS/FWO (Note 3)									
CPU (HEP-SPEC06)	9000	9600	9600	Offered			9600		9600
				% of Total			3%		3%
Disk (Tbytes)	670	1190	1370	Offered			1190		1190
				% of Total			6%		6%
Brazil, SPRACE, Sao Paulo (Note 4)									
CPU (HEP-SPEC06)	3200	2630	4030	Offered			2630		2630
				% of Total			1%		1%
Disk (Tbytes)	120	120	270	Offered			120		120
				% of Total			1%		1%
Canada, Canada-East Federation (Note 5)									
CPU (HEP-SPEC06)	5760	6672	7080	Offered		6672			6672
				% of Total		2%			2%
Disk (Tbytes)	595	902	1056	Offered		902			902
				% of Total		2%			2%
Canada, Canada-West Federation (Note 5)									
CPU (HEP-SPEC06)	5760	6672	7080	Offered		6672			6672
				% of Total		2%			2%
Disk (Tbytes)	595	902	1056	Offered		902			902
				% of Total		2%			2%
China, IHEP, Beijing									
CPU (HEP-SPEC06)	8000	8000	9600	Offered		4000	4000		8000
				% of Total		1%	1%		1%
Disk (Tbytes)	600	600	640	Offered		300	300		600
				% of Total		1%	2%		1%
Czech Rep., FZU, Prague									
CPU (HEP-SPEC06)	5900	8500	11000	Offered	5000	3500			8500
				% of Total	4%	1%			2%
Disk (Tbytes)	201	525	900	Offered	125	400			525
				% of Total	2%	1%			1%
Estonia, NICPB, Tallinn									
CPU (HEP-SPEC06)	3200	16000	16000	Offered			16000		16000
				% of Total			5%		5%
Disk (Tbytes)	120	280	280	Offered			280		280
				% of Total			1%		1%
Finland, NDGF/HIP Tier-2									
CPU (HEP-SPEC06)	2680	2680	2680	Offered			2680		2680
				% of Total			1%		1%
Disk (Tbytes)	210	346	346	Offered			346		346
				% of Total			2%		2%
France, CC-IN2P3 AF, Lyon (Note 6)									
CPU (HEP-SPEC06)	15654	26087	27130	Offered	2412	10859	7347	5469	26087
				% of Total	2%	4%	2%	15%	3%
Disk (Tbytes)	1001	2314	2671	Offered	207	1469	558	80	2314
				% of Total	3%	4%	3%	400%	4%
France, GRIF, Paris (Note 6)									
CPU (HEP-SPEC06)	25808	36856	39064	Offered	5952	10564	9296	11044	36856
				% of Total	5%	4%	3%	31%	5%
Disk (Tbytes)	1570	2338	2833	Offered	324	1429	579	6	2338
				% of Total	5%	4%	3%	30%	4%
France, IPHC, Strasbourg (Note 6)									
CPU (HEP-SPEC06)	8000	9100	9100	Offered	2700		6400		9100
				% of Total	2%		2%		2%
Disk (Tbytes)	420	550	680	Offered	150		400		550
				% of Total	2%		2%		2%

France, LAPP, Annecy (Note 6)	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	4400	4720	5200	Offered		3520		1200	4720
				% of Total		1%		3%	2%
Disk (Tbytes)	272	452	602	Offered		450		2	452
				% of Total		1%		10%	1%
France, LPC, Clermont (Note 6 + Note 7)	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	7080	6527	7620	Offered	2078	3146		1303	6527
				% of Total	2%	1%		4%	2%
Disk (Tbytes)	610	609	771	Offered	164	443		2	609
				% of Total	2%	1%		10%	1%
France, Subatech, Nantes (Note 6)	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	2400	3000	3000	Offered	3000				3000
				% of Total	2%				2%
Disk (Tbytes)	200	270	270	Offered	270				270
				% of Total	4%				4%
France, IN2P3-CPPM (Note 6)	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	3350	3350	4500	Offered		1850		1500	3350
				% of Total		1%		4%	1%
Disk (Tbytes)	152	254	404	Offered		250		4	254
				% of Total		1%		20%	1%
Germany, ATLAS Federation, DESY	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	4800	6200	6600	Offered		6200			6200
				% of Total		2%			2%
Disk (Tbytes)	740	1050	1350	Offered		1050			1050
				% of Total		3%			3%
Germany, ATLAS Federation, U. Goettingen	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	2280	3800	4000	Offered		3800			3800
				% of Total		1%			1%
Disk (Tbytes)	250	400	590	Offered		400			400
				% of Total		1%			1%
Germany, CMS Federation DESY	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	8000	11800	12900	Offered			11800		11800
				% of Total			4%		4%
Disk (Tbytes)	400	640	900	Offered			640		640
				% of Total			3%		3%
Germany, CMS Federation RWTH Aachen	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	5000	6600	8700	Offered			6600		6600
				% of Total			2%		2%
Disk (Tbytes)	250	330	435	Offered			330		330
				% of Total			2%		2%
Germany, DESY-LHCb	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	3200	3200	3200	Offered				3200	3200
				% of Total				9%	9%
Disk (Tbytes)	2	2	2	Offered				2	2
				% of Total				10%	10%
Germany, GSI, Darmstadt	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	4400	5700	7400	Offered	5700				5700
				% of Total	5%				5%
Disk (Tbytes)	340	440	570	Offered	440				440
				% of Total	7%				7%
Germany, ATLAS Federation Munich	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	3440	9220	11560	Offered		9220			9220
				% of Total		3%			3%
Disk (Tbytes)	370	1040	1340	Offered		1040			1040
				% of Total		3%			3%
Germany, ATLAS Fed. FR/W Wuppertal	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	3436	4633	4917	Offered		4633			4633
				% of Total		2%			2%
Disk (Tbytes)	369	633	733	Offered		633			633
				% of Total		2%			2%
Germany, ATLAS Fed. FR/W Freiburg	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	3436	4610	5780	Offered		4610			4610
				% of Total		2%			2%
Disk (Tbytes)	369	518	668	Offered		518			518
				% of Total		1%			1%

	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
Hungary, HGCC Federation									
CPU (HEP-SPEC06)	2500	3340	3340	Offered	840		2500		3340
				% of Total	1%		1%		1%
Disk (Tbytes)	140	146	171	Offered	36		110		146
				% of Total	1%		1%		1%
India, VECC/SINP, Kolkata									
CPU (HEP-SPEC06)	1800	4700	6000	Offered	4700				4700
				% of Total	4%				4%
Disk (Tbytes)	150	150	240	Offered	150				150
				% of Total	2%				2%
India, TIFR, Mumbai									
CPU (HEP-SPEC06)	3200	10400	10400	Offered			10400		10400
				% of Total			3%		3%
Disk (Tbytes)	600	750	750	Offered			750		750
				% of Total			4%		4%
Israel, IL-HEP Tier-2 Federation									
CPU (HEP-SPEC06)	3200	4000	5000	Offered		4000			4000
				% of Total		1%			1%
Disk (Tbytes)	375	560	660	Offered		560			560
				% of Total		1%			1%
Italy, INFN ALICE Federation									
CPU (HEP-SPEC06)	8000	20000	22000	Offered	20000				20000
				% of Total	17%				17%
Disk (Tbytes)	500	1000	1200	Offered	1000				1000
				% of Total	15%				15%
Italy, INFN ATLAS Federation									
CPU (HEP-SPEC06)	12000	18000	22000	Offered		18000			18000
				% of Total		6%			6%
Disk (Tbytes)	1000	2400	2700	Offered		2400			2400
				% of Total		6%			6%
Italy, INFN CMS Federation									
CPU (HEP-SPEC06)	24000	40000	40000	Offered			40000		40000
				% of Total			13%		13%
Disk (Tbytes)	1300	2500	2500	Offered			2500		2500
				% of Total			13%		13%
Italy, INFN LHCb Federation									
CPU (HEP-SPEC06)	4750	6000	6000	Offered				6000	6000
				% of Total				17%	17%
Disk (Tbytes)	0	0	0	Offered				0	0
				% of Total				0%	0%
Japan, ICEPP, Tokyo									
CPU (HEP-SPEC06)	12000	12000	12000	Offered		12000			12000
				% of Total		4%			4%
Disk (Tbytes)	1000	1000	1000	Offered		1000			1000
				% of Total		3%			3%
Republic of Korea, KISTI, Daejeon (Note 8)									
CPU (HEP-SPEC06)	600	600	600	Offered	600				600
				% of Total	0%				0%
Disk (Tbytes)	50	30	50	Offered	30				30
				% of Total	0%				0%
Republic of Korea, CHEP of KNU, Daegu									
CPU (HEP-SPEC06)	2840	3200	3600	Offered			3200		3200
				% of Total			1%		1%
Disk (Tbytes)	205	230	250	Offered			230		230
				% of Total			1%		1%
Norway, UNINETT SIGMA Tier2									
CPU (HEP-SPEC06)	1280	2905	3224	Offered		2905			2905
				% of Total		1%			1%
Disk (Tbytes)	90	273	365	Offered		273			273
				% of Total		1%			1%
Pakistan, Pakistan Tier-2 Federation									
CPU (HEP-SPEC06)	3480	4352	5440	Offered			4352		4352
				% of Total			1%		1%
Disk (Tbytes)	200	300	300	Offered			300		300
				% of Total			2%		2%

	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
Poland, Polish Tier-2 Federation									
CPU (HEP-SPEC06)	10540	13050	15800	Offered	3500	4000	3350	2200	13050
				% of Total	3%	1%	1%	6%	2%
Disk (Tbytes)	599	810	1020	Offered	240	385	185	0	810
				% of Total	4%	1%	1%		1%
Portugal, LIP Tier-2 Federation									
CPU (HEP-SPEC06)	6400	6400	6400	Offered		3200	3200		6400
				% of Total		1%	1%		1%
Disk (Tbytes)	400	420	420	Offered		220	200		420
				% of Total		1%	1%		1%
Romania, Romanian Tier-2 Federation									
CPU (HEP-SPEC06)	12092	19000	20240	Offered	10600	6800		1600	19000
				% of Total	9%	2%		4%	4%
Disk (Tbytes)	816	1705	1756	Offered	1200	500		5	1705
				% of Total	18%	1%		25%	4%
Russian Federation, RDIG									
CPU (HEP-SPEC06)	30000	30000	30000	Offered	8100	9600	9600	2700	30000
				% of Total	7%	3%	3%	8%	4%
Disk (Tbytes)	2800	2800	5000	Offered	790	930	930	150	2800
				% of Total	12%	2%	5%	750%	4%
Slovenia, SIGNET, Jozef Stefan Inst.									
CPU (HEP-SPEC06)	5200	8000	12000	Offered		8000			8000
				% of Total		3%			3%
Disk (Tbytes)	350	600	900	Offered		600			600
				% of Total		2%			2%
Spain, ATLAS Federation									
CPU (HEP-SPEC06)	10308	13900	14750	Offered		13900			13900
				% of Total		5%			5%
Disk (Tbytes)	1107	1880	2200	Offered		1880			1880
				% of Total		5%			5%
Spain, CMS Federation									
CPU (HEP-SPEC06)	9040	16000	16000	Offered			16000		16000
				% of Total			5%		5%
Disk (Tbytes)	670	1000	1200	Offered			1000		1000
				% of Total			5%		5%
Spain, LHCb Federation (Note 9)									
CPU (HEP-SPEC06)	3420	2340	2340	Offered				2340	2340
				% of Total				7%	7%
Disk (Tbytes)	1	1	1	Offered				1	1
				% of Total				7%	7%
Sweden, SNIC Tier2 (note 10)									
CPU (HEP-SPEC06)	7870	7870	7870	Offered	2820	5050			7870
				% of Total	2%	2%			2%
Disk (Tbytes)	920	920	920	Offered	400	520			920
				% of Total	6%	1%			2%
Switzerland, CHIPP, Manno									
CPU (HEP-SPEC06)	10560	13550	17400	Offered		5420	5420	2710	13550
				% of Total		2%	2%	8%	2%
Disk (Tbytes)	910	976	1090	Offered		469	469	39	976
				% of Total		1%	2%	195%	2%
Taipei, Taiwan Analysis Facility Federation									
CPU (HEP-SPEC06)	3200	4480	6080	Offered		2240	2240		4480
				% of Total		1%	1%		1%
Disk (Tbytes)	350	480	600	Offered		240	240		480
				% of Total		1%	1%		1%
Turkey, Turkish Tier-2 Federation									
CPU (HEP-SPEC06)	9800	9800	9800	Offered		5100	4700		9800
				% of Total		2%	1%		2%
Disk (Tbytes)	900	900	900	Offered		550	350		900
				% of Total		1%	2%		2%
UK, London									
CPU (HEP-SPEC06)	10551	28186	28662	Offered		7794	18407	1985	28186
				% of Total		3%	6%	6%	4%
Disk (Tbytes)	781	2440	2839	Offered		1342	1097	1	2440
				% of Total		4%	6%	5%	4%

UK, NorthGrid	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	8309	11185	11805	Offered		10135		1050	11185
				% of Total		4%		3%	4%
Disk (Tbytes)	845	1540	1802	Offered		1539		1	1540
				% of Total		4%			4%

UK, ScotGrid	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	9025	14630	15409	Offered		12724		1906	14630
				% of Total		5%		5%	5%
Disk (Tbytes)	606	1238	1449	Offered		1237		1	1238
				% of Total		3%		5%	3%

UK, SouthGrid	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	9258	15425	16055	Offered	2420	4097	7153	1755	15425
				% of Total	2%	1%	2%	5%	2%
Disk (Tbytes)	669	1210	1482	Offered	132	582	495	1	1210
				% of Total	2%	2%	2%	5%	2%

Ukraine, Ukrainian Tier-2 Federation (Note 11)	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	1440	637	1290	Offered	510		127		637
				% of Total	0%		0%		0%
Disk (Tbytes)	108	100	100	Offered	80		20		100
				% of Total	1%		0%		0%

USA, Northeast ATLAS T2	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	11040	12232	12980	Offered		12232			12232
				% of Total		4%			4%
Disk (Tbytes)	1141	1654	1936	Offered		1654			1654
				% of Total		4%			4%

USA, Southwest ATLAS T2	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	11040	12232	12980	Offered		12232			12232
				% of Total		4%			4%
Disk (Tbytes)	1141	1654	1936	Offered		1654			1654
				% of Total		4%			4%

USA, Midwest ATLAS T2	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	11040	12232	12980	Offered		12232			12232
				% of Total		4%			4%
Disk (Tbytes)	1141	1654	1936	Offered		1654			1654
				% of Total		4%			4%

USA, Great Lakes ATLAS T2	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	11040	12232	12980	Offered		12232			12232
				% of Total		4%			4%
Disk (Tbytes)	1141	1654	1936	Offered		1654			1654
				% of Total		4%			4%

USA, SLAC ATLAS T2	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	11040	12232	12980	Offered		12232			12232
				% of Total		4%			4%
Disk (Tbytes)	1141	1654	1936	Offered		1654			1654
				% of Total		4%			4%

USA, Caltech CMS T2	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	7760	15000	15000	Offered			15000		15000
				% of Total			5%		5%
Disk (Tbytes)	570	900	1000	Offered			900		900
				% of Total			5%		5%

USA, Florida CMS T2	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	7760	15000	15000	Offered			15000		15000
				% of Total			5%		5%
Disk (Tbytes)	570	900	1000	Offered			900		900
				% of Total			5%		5%

USA, MIT CMS T2	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	7760	15000	15000	Offered			15000		15000
				% of Total			5%		5%
Disk (Tbytes)	570	900	1000	Offered			900		900
				% of Total			5%		5%

USA, Nebraska CMS T2	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	7760	15000	15000	Offered			15000		15000
				% of Total			5%		5%
Disk (Tbytes)	570	900	1000	Offered			900		900
				% of Total			5%		5%

USA, Purdue CMS T2	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	7760	15000	15000	Offered			15000		15000
				% of Total			5%		5%
Disk (Tbytes)	570	900	1000	Offered			900		900
				% of Total			5%		5%

USA, UC San Diego CMS T2	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	7760	15000	15000	Offered			15000		15000
				% of Total			5%		5%
Disk (Tbytes)	570	900	1000	Offered			900		900
				% of Total			5%		5%

USA, U. Wisconsin CMS T2	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	SUM 2011
CPU (HEP-SPEC06)	7760	15000	15000	Offered			15000		15000
				% of Total			5%		5%
Disk (Tbytes)	570	900	1000	Offered			900		900
				% of Total			5%		5%

Summary Tier2s with Split in 2011	2010	2011	2012	Split 2011	ALICE	ATLAS	CMS	LHCb	Sum 2011
CPU (HEP-SPEC06)	502367	725324	776203	Offered	80932	281228	315202	47962	725324
				Required	121000	278000	319500	36000	754500
				Balance	-33%	1%	-1%	33%	-4%
Disk (Tbytes)	39255	60454	71998	Offered	5738	34203	20219	295	60454
				Required	6600	37600	19900	20	64120
				Balance	-13%	-9%	2%	1377%	-6%

Requirements 2011	ALICE	ATLAS	CMS	LHCb	SUM
CPU (HEP-SPEC06)	121000	278000	319500	36000	754500
Disk (Tbytes)	6600	37600	19900	20	64120
Number of T2s	17	39	33	16	

TIER 2 Notes

Note 1 - Austria: The pledge for 2011 had to be reduced due to infrastructure limitations which will be addressed by relocating the computing facility at a new site.

Note 2 - Australia: numbers are currently constrained by data centre power and cooling limitations. New DC is due for completion early mid-2011. Numbers may be increased.

Note 3 - Belgium: the FNRS pledges for 2011 are subject to approval of the funding request for 2011 by the FNRS funding agency

Note 4 - Brazil: The HS06 of the processors was overestimated therefore the 2010 pledge was not met. The 2011 pledge reflects the current installation while waiting for agreement on funding requests to finance the 2012 pledges.

Note 5 - Canada : These pledges are unconfirmed due to the timing of the Call for Proposals process in Canada. The current assumption is that the proposal will be accepted and all new resources will be available by 1 April 2011.

Note 6 - France: All T2's - the final budget allocation will only be known in January 2011; depending on the outcome there is a risk that these pledges may decrease.

Note 7 - France LPC Clermont: Local resource funding was lower than expected in 2010 therefore the 2011 pledge was adjusted accordingly.

Note 8 - Korea KISTI: the 2010 disk pledge was not met and due to funding uncertainty the 2011 pledge has been reduced to match the disk resources currently deployed.

Note 9 - Spain LHCb: The 2011 pledge is based on the decreased CPU requirement from LHCb that this site has agreed to provide 6.5% of, which translates to 2340 HS06.

Note 10 - Sweden: The Swedish Research Council confirmed the 2011 Tier2 pledges at its meeting on 4th November 2010

Note 11 - Ukraine: The 2011 pledge values correspond to resources already deployed or planned to be deployed by April 2011. The 2012 pledges will depend on budget allocation to be confirmed during 2011.

See also the online WLCG Resources Pledges database at: <http://gstat-wlcg.cern.ch/apps/pledges/>