



LHC Computing Grid

Status of LCG Resources Planning

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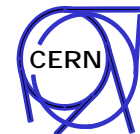
Management Board

2nd October 2007



Current Status of Pledge information

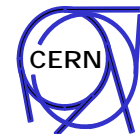
- Initial request sent 24th August to:
 - Participants to Computing Resources Review Board (CRRB)
 - Copy to Collaboration board + GDB & MB members
 - Deadline for input 28th September
- All external T1 or T2 sites requested to update their pledges for 2008 to 2012 inclusive, and to allocate the resources to the experiments for the reference year 2008 for the October CRRB report
- In parallel experiments were asked to revise their requirements up to 2012 - experiment replies were received between July and mid-September
- Status of request responses up to 14:00 (Geneva time) 2nd October:
 - 4/11 T1 sites have responded
 - 16/54 T2 sites have responded





Observations

- In cases where a site has replied, often the pledge values for 2011 and 2012 are the same as 2010
- A summary (Slide 4) shows the situation for 2008 including the split across experiments
- Pending missing input, a simulation summary (Slide 5) shows the situation from 2008-2012 if all sites who have not yet replied maintain their last pledge values up to 2012
- This shows major problems ahead, however it is hoped that the response rate will improve and new increased pledge values will project a better future....





Summary of T1 and T2 split for 2008

Based on information received

Ext. Tier1s	Split 2008	ALICE	ATLAS	CMS	LHCb	SUM 2008
CPU (kSI2K)	Offered	5446	20464	10375	3544	39829
	Required	10100	18120	9600	1770	39590
	Balance	-46%	13%	8%	100%	1%
Disk (Tbytes)	Offered	2448	11601	5168	1889	21106
	Required	4000	10730	7200	1025	22955
	Balance	-39%	8%	-28%	84%	-8%
Tape (Tbytes)	Offered	3029	7970	9116	1436	21551
	Required	5800	8070	9800	860	24530
	Balance	-48%	-1%	-7%	67%	-12%

Tier2s with Split in 2008	Split 2008	ALICE	ATLAS	CMS	LHCb	SUM 2008
CPU (kSI2K)	Offered	6602	18645	17365	4399	47011
	Required	12500	17510	13400	4550	47960
	Balance	-47%	6%	30%	-3%	-2%
Disk (Tbytes)	Offered	1535	5900	4550	319.9	12304.9
	Required	1700	7770	5100	9	14579
	Balance	-10%	-24%	-11%	3454%	-16%





T1 & T2 2008-2012

Based on information received + simulated constant pledge values up to 2012 when no reply or information for 2012 not received

Ext. Tier1s		SUM 2008	SUM 2009	SUM 2010	SUM 2011	SUM 2012
CPU (kSI2K)	Offered	39829	62088	99718	114837	125620
	Required	39590	69600	114720	152230	191810
	Balance	1%	-11%	-13%	-25%	-35%
Disk (Tbytes)	Offered	21106	35006	58089	71680.74	79258.09
	Required	22955	40179	71000	96791	123892
	Balance	-8%	-13%	-18%	-26%	-36%
Tape (Tbytes)	Offered	21551	39908	63930	78779.26	89807.3
	Required	24530	46260	78664	114610	152396
	Balance	-12%	-14%	-19%	-31%	-41%

Tier2s with Requ. Balance		SUM 2008	SUM 2009	SUM 2010	SUM 2011	SUM 2012
CPU (kSI2K)	Offered	47011	66344.18	101784.1	115037.1	117538.1
	Required	47960	80750	164540	218720	275010
	Balance	-2%	-18%	-38%	-47%	-57%
Disk (Tbytes)	Offered	12304.9	20629.09	32917.81	39074.81	39848.81
	Required	14579	23023	34243	47903	61963
	Balance	-16%	-10%	-4%	-18%	-36%

