

UK Tier 1 Requests - 2018 CPU (HEPSPEC06)				VO requirements																WLCG 17 Pledge	2016 expected	
		q218 Av Used/month	Jun 18 Alloc	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Apr 2018	WLCG 18 Pledge					
ALICE		11018	6076	6076	6076	6076	6076	6076	6076	6076	6076	6076	6076	6076	6076	6076	6076	6076	4840	3140		
ATLAS		60322	116300	116300	116300	116300	116300	116300	116300	116300	116300	116300	116300	116300	116300	116300	116300	116300	103175	65000		
CMS		22434	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000	48000	46400	32000		
LHCb		61531	74820	74820	74820	74820	74820	74820	74820	74820	74820	74820	74820	74820	74820	74820	74820	74820	58020	46800		
enmr		539	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50					
ILC		1538	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300					
MICE		0	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10					
MOBRAIN																						
NA62		2409	500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000					
T2K		4	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600					
ZEUS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Pheno		5914	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200					
UKQCD		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
SNO+		88	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200					
Dream/Ops		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
UK-T0																						
Other		120	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10					
TOTAL		165918	247066	247566	247566	247566	247566	247566	247566	247566	247566	247566	247566	247566	247566	247566	247566					
LCG Total		155305	245196	245196	245196	245196	245196	245196	245196	245196	245196	245196	245196	245196	245196	245196	245196					
Sum of Non-LHC		10613	1870	2370	2370	2370	2370	2370	2370	2370	2370	2370	2370	2370	2370	2370	2370	245196	212435			
Fabric		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Reserve		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
CURR CAPACITY		267616	267616	267616	267616	267616	267616	267616	267616	267616	267616	267616	267616	267616	267616	267616	267616					
HEADROOM		101698	20550	20050	20050	20050	20050	20050	20050	20050	20050	20050	20050	20050	20050	20050	20050					

Usually 5% - set to zero for now

Estimated Capacity dependant on next purchase

UK Tier 1 Requests - 2018 DISK(TeraBytes)				TB - Powers of 10!															
	Jun 18 deploy	Jun 18 Used	Jun 18 Alloc	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	WLCG 17 pledge	WLCG 17 allocation	95% of pledge into disk for each VO. 5% of pledge into tape buffers	WLCG 18 pledge
ALICE CASTOR	544	532	638	638	638	638	638	638	638	638	638	638	0	0	0				638
ALICE Echo				0	0	0	0	0	0	0	0	0	638	638	638				638
ATLAS CASTOR	4316	628	8850	0	0	0	0	0	0	0	0	0	0	0	0				8850
ATLAS Echo	3100	4616		8500	8500	8500	8500	8500	8500	8500	8500	8500	8500	8500	8500			8408	4784
CMS CASTOR	2762	619	4784	0	0	0	0	0	0	0	0	0	0	0	0				4784
CMS Echo	2500	2229		4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600			4545	7317
LHCb CASTOR	5294	4296	7317	3600	3600	3600	3000	2000	1000		0	0	0	0	0				
LHCb Echo	1500	95		3400	3400	3400	4000	5000	6000	7000	7000	7000	7000	7000	7000				
ALICE Total	544	532	638	638	638	638	638	638	638	638	638	638	638	638	638	505	480		
ATLAS Total	7416	5244	8850	8500	8500	8500	8500	8500	8500	8500	8500	8500	8500	8500	8500	7950	7553		
CMS Total	5262	2848	4784	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4600	4304	4089		
LHCb Total	6794	4391	7317	7000	7000	7000	7000	7000	7000	7000	7000	7000	7000	7000	7000	6162	5854		
Castor Tape buffer (Echo)			0	100	100	100	100	100	100	100	100	100	100	100	100			Shared pool	
LIGO(echo)				100	100	100	100	100	100	100	100	100	100	100	100			Propose to support LIGO DISCUSS	
S3 testing for all VO (Echo)				100	100	100	100	100	100	100	100	100	100	100	100				
UKT0				2346	2346	2346	2346	2346	2346	2346	2346	2346	2346	2346	2346				
Castor Tape buffer (Castor)	1281.0	685.0	1281	1281	1281	1281	1281	1281	1281	1281	1281	1281	1281	1281	1281		946		
CASTOR TOTAL	14197	6760	22870	5519.0	5519.0	5519.0	4919.0	3919.0	2919.0	1919.0	1919.0	1919.0	1281.0	1281.0	1281.0				
LCG Total	18516	12920	21589	20738.0	20738.0	20738.0	20738.0	20738.0	20738.0	20738.0	20738.0	20738.0	20738.0	20738.0	20738.0			Usually 5% - set to zero for now	21589
																0	0		
CURR CASTOR CAPACITY	21828	21828	21828	10000	10000	10000	4730	4730	4730	4730	4730	4730	4730	4730	4730			Need to check the total allocatable	
CASTOR HEADROOM	7631.0	15068.0	-1042.0	4481.0	4481.0	4481.0	-189.0	811.0	1811.0	2811.0	2811.0	2811.0	3449.0	3449.0	3449.0				
Echo TOTAL Allocated				19146	19146	19146	19746	20746	21746	22746	22746	22746	23384	23384	23384				
Echo CURR CAPACITY				21174	21174	21174	31088	31088	31088	31088	31088	31088	31088	31088	31088			Need to check the total allocatable	
Echo HEADROOM				2028.0	2028.0	2028.0	11342.0	10342.0	9342.0	8342.0	8342.0	8342.0	7704.0	7704.0	7704.0				
Grand Total Capacity				31174.0	31174.0	31174.0	35818.0	35818.0	35818.0	35818.0	35818.0	35818.0	35818.0	35818.0	35818.0				
Total Headroom				6509.0	6509.0	6509.0	11153.0	11153.0	11153.0	11153.0	11153.0	11153.0	11153.0	11153.0	11153.0				

TB - Powers of 10!

UK Tier 1 Requests - 2018 TAPE(TeraBytes)																					WLCG 16 Pledged	WLCG 17 Pledge	WLCG 18 Pledge
		Jun 18 Used	Jun 18 Alloc	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Apr 2018							
ALICE		882.0	870	870	870	870	870	870	870	870	870	870	870	870	870	870	312	598	818				
ATLAS		12837.0	24375	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	22750	14500	22750	24375				
CMS		9855.0	14936	12720	12720	12720	12720	12720	12720	12720	12720	12720	12720	12720	12720	12720	8000	12720	14936				
LHCb		9938.0	18231	12870	12870	12870	12870	12870	12870	12870	12870	12870	12870	12870	12870	12870	12630	12870	18231				
ILC		214.0	400	400	400	400	400	400	400	400	400	400	400	400	400	400							
MICE		50.0	75	75	75	75	75	75	75	75	75	75	75	75	75	75							
MOBRAIN																							
NA62		507.0	90	800	800	800	800	800	800	800	800	800	800	800	800	800							
T2K		804.0	1800	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300							
ZEUS		0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
Pheno		0.0	0	5	5	5	5	5	5	5	5	5	5	5	5	5							
UKQCD		0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
SOLID				100	100	100	100	100	100	100	100	100	100	100	100	100							
SNO+		89.0	50	100	100	100	100	100	100	100	100	100	100	100	100	100							
Dteam/Ops		0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
DiRAC		2614.0	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000							
DEAP3600				50	50	50	50	50	50	50	50	50	50	50	50	50							
Nuclear Physics																							
Other		0.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0							
Fabric		0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
TOTAL		37790.0	65842.0	49305	49305	49305	49305	49305	49305	49305	49305	49305	49305	49305	49305	57055							
LCG Total 2015		33512.0	58412.0	41460	41460	41460	41460	41460	41460	41460	41460	41460	41460	41460	41460								
LCG Total 2016																49210.0	35442	48938	57542				
CURR CAPACITY		55374	55374	55374	55374	55374	55374	55374	55374	55374	55374	55374	55374	55374	55374	55374							
HEADROOM		17584.0	-10468.0	6069.0	6069.0	6069.0	6069.0	6069.0	6069.0	6069.0	6069.0	6069.0	6069.0	6069.0	6069.0	-1681							

Note increased allocation (over the
pledge value agreed by the PMB Nov
2015)
LHC VO's still allocated 2017 levels

Increased request from 200 to 1PB in Mar 18 , decided on 800TB for now.
Plan to expand to 1.8PB during 2016

Planned to increase by 100TB each year
Plane to allocate 100tb at next meeting (Nov 2017)

Up to 150TB over time?

total alloc. from AL Need to discuss!!

Notes:

1. WLCG pledges to be taken from REBUS database at <http://gstst-wlcg.cern.ch/apps/pledges/resources/> when available after October C-RRB
2. GridPP4 2015 numbers from: http://www.gridpp4.ac.uk/docs/gridpp4/GridPP4_Proposal_Final.pdf. Page 9