

GRIDPP - UK Tier 1 Experiment Requests: 2017 - *March 2017*

UK Tier 1 Requests - 2017/18 CPU (HEPSPEC06)																		
	Jan 17 Used	Jan 17 Alloc	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Apr 2017	WLCG 15 Pledged	WLCG 16 Pledged	WLCG 17 Pledge
ALICE	25099	3140	3140	3140	3140	4840	4840	4840	4840	4840	4840	4840	4840	4840	4840	2400	3140	4840
ATLAS	65378	71656	71656.3	71656.25	71656	103175	103175	103175	103175	103175	103175	103175	103175	103175	103175	56250	65000	103175
CMS	20608	34100	34100	34100	34100	46400	46400	46400	46400	46400	46400	46400	46400	46400	46400	24000	32000	46400
LHCb	66246	46800	46800	46800	46800	58020	58020	58020	58020	58020	58020	58020	58020	58020	58020	35400	46800	58020
SuperB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
enmr	0	0	50	50	50	50	50	50	50	50	50	50	50	50	50			
ILC	5191	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			
MINOS	0	10	10	10	10	10	10	10	10	10	10	10	10	10	10			
MOBRAIN																		
NA48/NA62	15	500	500	500	500	500	500	500	500	500	500	500	500	500	500			
T2K		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			
Pheno	1802	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			
SNO+	506	200	200	200	200	200	200	200	200	200	200	200	200	200	200			
Dteam/Ops	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
UK-TO			47000	47000	47000													
Other	360	10	10	10	10	10	10	10	10	10	10	10	10	10	10			
TOTAL	185206	157526	204576	204576.3	204576	214315	214315	214315	214315	214315	214315	214315	214315	214315	214315			
LCC Total 2015	177331	155696	155696	155696	155696	212435	212435	212435	212435	212435	212435	212435	212435	212435	212435	118050		
LCC Total 2015															212435.0		146940	212435
Fabric	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			
CURR CAPACITY	246757	246757	246757	246757	246757	246757	246757	246757	246757	268265	268265	268265	268265	268265	268265	246757		
HEADROOM	61552	89231	42181	42181	42181	32442	32442	32442	53950	53950	53950	53950	53950	53950	32442			

April 2017 LHC Allocations delayed till Jul 2017

This at 30% from Sep 2014.

VO added May 2013

Ongoing requirement to be decided at the resource meeting.

*Usually 5% - set to zero for now
Estimated Capacity dependant on next purchase*

TB - Powers of 10!

UK Tier 1 Requests - 2017/18
DISK(TeraBytes)

	Jan 17 deploy	Jan 17 Used	Jan 17 Alloc	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Apr 2017	WLCG 15 Pledged	WLCG 16 Pledged	WLCG 17 pledge	WLCG 17 allocation
ALICE CASTOR	544	185	420	544	544	544	544	544	544	544	544	544	544	544	544	544				
ALICE Echo				0	0	0	0	0	0	0	0	0	0	0	0	0				
ATLAS CASTOR	5989	5393	5875	5875	5875	5875	5346	5346	5346	5346	5346	4544	4544	4544	4544	5346				
ATLAS Echo				500	500	500	2300	2300	2300	2300	2300	3100	3100	3100	3100	2300				
CMS CASTOR	2663	2015	2640	2287	2287	2287	2227	2227	2227	2227	2227	1604	1604	1604	1604	2227				
CMS Echo				500	500	500	1900	1900	1900	1900	1900	2500	2500	2500	2500	1900				
LHCb CASTOR	5354	4055	4050	4906	4906	4906	4916	4916	4916	4916	4916	4441	4441	4441	4441	4916				
LHCb Echo				0	0	0	1000	1000	1000	1000	1000	1500	1500	1500	1500	1000				
ALICE Total	544	185	420	544	544	544	544	544	544	544	544	544	544	544	544	544	356	420	505	480
ATLAS Total	5989	5393	5875	6375	6375	6375	7646	7646	7646	7646	7646	7644	7644	7644	7644	7646	4500	5875	7950	7553
CMS Total	2663	2015	2640	2787	2787	2787	4127	4127	4127	4127	4127	4104	4104	4104	4104	4127	2090	2640	4304	4089
LHCb Total	5354	4055	4050	4906	4906	4906	5916	5916	5916	5916	5916	5941	5941	5941	5941	5916	3510	4050	6162	5854
Castor Tape buffer (Echo)			0	0	0	0	0	0	0	0	0	100	100	100	100	0				
S3 testing for all VO (Echo)				100	100	100	100	100	100	100	100	100	100	100	100	100				
Castor Tape buffer (Castor)	478.0	478.0	478	1540	1540	1540	1540	1540	1540	1540	1540	2665	2665	2665	2665	1540				946
CASTOR TOTAL	15028	12126	13463	15152.0	15152.0	15152.0	14573.0	14573.0	14573.0	14573.0	14573.0	13798.0	13798.0	13798.0	13798.0	14573.0				
LCG Total	14550	11648	12985	14612.0	14612.0	14612.0	18233.0	18233.0	18233.0	18233.0	18233.0	18233.0	18233.0	18233.0	18233.0		0			
																18233.0		0	0	0
CURR CASTOR CAPACITY	16259	16259	16259	17233	17233	17233	15928	15928	15928	21828	21828	21828	17428	17428	17428	15928				
CASTOR HEADROOM	1231.0	4133.0	2796.0	2081.0	2081.0	2081.0	1355.0	1355.0	1355.0	7255.0	7255.0	8030.0	3630.0	3630.0	3630.0	1355.0				
Echo TOTAL				1100	1100	1100	5300	5300	5300	5300	5300	7300	7300	7300	7300	5300				
Echo CURR CAPACITY				9000	9000	9000	9000	9000	9000	9000	9000	9000	13400	13400	13400	9000				
Echo HEADROOM				7900.0	7900.0	7900.0	3700.0	3700.0	3700.0	3700.0	3700.0	1700.0	6100.0	6100.0	6100.0	3700.0				
Grand Total Capacity				26233.0	26233.0	26233.0	24928.0	24928.0	24928.0	30828.0	30828.0	30828.0	30828.0	30828.0	30828.0					
Total Headroom				9981.0	9981.0	9981.0	5055.0	5055.0	5055.0	10955.0	10955.0	9730.0	9730.0	9730.0	9730.0	5055.0				

95% of pledge into disk for each VO. 5% of pledge into tape buffers

Actual ALICE deployment is shown

This at 30% of a lower 2014 global target due to t2ds.

Shared pool

Usually 5% - set to zero for now

TB - Powers of 10!

UK Tier 1 Requests - 2017/18
TAPE(TeraBytes)

	Jan 17 Used	Jan 17 Alloc	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Apr 2017	WLCG 15 Pledged	WLCG 16 Pledged	WLCG 17 Pledge
ALICE	882.0	870	870	870	870	870	870	870	870	870	870	870	870	870	870	204	312	598
ATLAS	7516.0	14500	14500	14500	14500	22750	22750	22750	22750	22750	22750	22750	22750	22750	22750	8125	14500	22750
CMS	5940.0	8000	8000	8000	8000	12720	12720	12720	12720	12720	12720	12720	12720	12720	12720	5920	8000	12720
LHCb	6267.0	7740	7740	7740	7740	12870	12870	12870	12870	12870	12870	12870	12870	12870	12870	7110	12630	12870
SuperB	2.1	5	5	5	5	5	5	5	5	5	5	5	5	5	5			

Note increased allocation (over the pledge value agreed by the PMB Nov 2015)

ILC		213.0	300	300	300	300	400	400	400	400	400	400	400	400	400	400			
MICE		17.5	75	75	75	75	75	75	75	75	75	75	75	75	75	75			
MINOS		11.9	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
MOBRAIN																			
NA48/NA62		0.0	90	90	90	90	1000	90	90	90	90	90	90	90	90	90			
T2K		773.9	1800	1800	1800	1800	2600	1800	1800	1800	1800	1800	1800	1800	1800	1800			
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			
SNO+		29.7	50	50	50	50	50	50	50	50	50	50	50	50	50	50			
Dteam/Ops		0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
DIRAC		1199.0	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	3000.0	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		22852.1	38460.0	38515	38515	38515	61410	56715	56715	56715	56715	56715	56715	56715	56715	56715	56715		
LCG Total 2015		20605.0	31110.0	31110	31110	31110	49210	49210	49210	49210	49210	49210	49210	49210	49210	49210		21359	
LCG Total 2016																		49210.0	35442
																			48938
CURR CAPACITY		44362	44362	44362	44362	44362	55858	55858	55858	55858	55858	55858	55858	55858	55858	55858			
HEADROOM		21509.9	5902.0	5847.0	5847.0	5847.0	-5552.0	-857.0	-857.0	-857.0	-857.0	-857.0	-857.0	-857.0	-857.0	-857.0			

Ongoing requirement to be decided at the resource meeting.

Plan to expand to 1.8PB during 2016

Up to 150TB over time?

total alloc. from AL

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