

GRIDPP - UK Tier 1 Experiment Requests: 2017 - Aug 2017

UK Tier 1 Requests - 2017/18 CPU (HEPSPEC06)		VO requirements																
	Jun 17 Used	Jun 17 Alloc	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Apr 2018	WLCG 15 Pledged	WLCG 16 Pledged	WLCG 17 Pledge
ALICE	28174	4840	4840	4840	4840	4840	4840	4840	4840	4840	4840	5680	5680	5680	5680	2400	3140	4840
ATLAS	99063	103175	103175	103175	103175	103175	103175	103175	103175	103175	103175	95375	95375	95375	95375	56250	65000	103175
CMS	17787	46400	46400	46400	46400	46400	46400	46400	46400	46400	46400	48000	48000	48000	48000	24000	32000	46400
LHCb	46247	58020	58020	58020	58020	58020	58020	58020	58020	58020	58020	65100	65100	65100	65100	35400	46800	58020
SuperB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
enmr	1144	50	50	50	50	50	50	50	50	50	50	50	50	50	50			
ILC	1227	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	0	500	500	500	500	500	500	500	500	500	500	500	500	500	500			
T2K	1	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	1670	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+	605	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-T0																		
Other	1135	10	10	10	10	10	10	10	10	10	10	10	10	10	10			
TOTAL	197054	214315	214315	214315	214315	214315	214315	214315	214315	214315	214315	216035	216035	216035	216035	118050		
LCG Total 2015	191271	212435	212435	212435	212435	212435	212435	212435	212435	212435	212435	214155	214155	214155				
LCG Total 2015															214155.0		146940	212435
Fabric	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				
CURR CAPACITY	246757	246757	246757	246757	246757	246757	246757	246757	246757	246757	246757	246757	246757	246757	246757			
HEADROOM	49703	32442	32442	32442	32442	32442	32442	32442	32442	32442	32442	30722	30722	30722	30722			

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)

	Jun 17 deploy	Jun 17 Used	Jun 17 Alloc	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Apr 2018	WLCG 15 Pledged	WLCG 16 Pledged	WLCG 17 pledge	WLCG 17 allocation
ALICE CASTOR	544	306	505	505	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	6256	5485	7950	5346	4544	4544	4544	4544	4544	4544	4544	4544	4544	4544	4544	4544				
ATLAS Echo	3100	1829		2300	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100				
CMS CASTOR	3089	2843	4304	2227	2227	1604	1604	1604	1604	1604	1604	1604	1604	1604	1604	1604				
CMS Echo	2500	35		1900	1900	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500				
LHCb CASTOR	5047	3833	6162	4916	4916	4441	4441	4441	4441	4441	4441	4441	4441	4441	4441	4441				
LHCb Echo	1500	0		1000	1000	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500				
ALICE Total	544	306	505	505	544	544	544	544	544	544	544	544	544	544	544	505	356	420	505	480
ATLAS Total	9356	7314	7950	7646	7644	7644	7644	7644	7644	7644	7644	7644	7644	7644	7644	7644	4500	5875	7950	7553
CMS Total	5589	2878	4304	4127	4127	4104	4104	4104	4104	4104	4104	4104	4104	4104	4104	4104	2090	2640	4304	4089
LHCb Total	6547	3833	6162	5916	5916	5941	5941	5941	5941	5941	5941	5941	5941	5941	5941	5941	3510	4050	6162	5854
Castor Tape buffer (Echo)			0	0	0	100	100	100	100	100	100	100	100	100	100	100				
LIGO				100	100	100	100	100	100	100	100	100	100	100	100	100				
S3 testing for all VO (Echo)				100	100	100	100	100	100	100	100	100	100	100	100	100				
Castor Tape buffer (Castor)	1396.0	631.0	1396	1540	1540	2665	2665	2665	2665	2665	2665	2665	2665	2665	2665	2665				946
CASTOR TOTAL	16332	13098	20317	14534.0	13771.0	13798.0	13798.0	13798.0	13798.0	13798.0	13798.0	13798.0	13798.0	13798.0	13798.0	13798.0				
LCG Total	20536	14331	18921	18194.0	18231.0	18233.0	18233.0	18233.0	18233.0	18233.0	18233.0	18233.0	18233.0	18233.0	18233.0	18233.0		0		
																18233.0			0	0
CURR CASTOR CAPACITY	21828	21828	21828	21828	21828	21828	21828	17428	17428	17428	17428	17428	17428	17428	17428	17428				
CASTOR HEADROOM	5496.0	8730.0	1511.0	7294.0	8057.0	8030.0	8030.0	3630.0	3630.0	3630.0	3630.0	3630.0	3630.0	3630.0	3630.0	3630.0				
Echo TOTAL				5300	6100	7300	7300	7300	7300	7300	7300	7300	7300	7300	7300	7300				
Echo CURR CAPACITY				9000	9000	9000	9000	13400	13400	13400	13400	13400	13400	13400	13400	13400				
Echo HEADROOM				3700.0	2900.0	1700.0	1700.0	6100.0	6100.0	6100.0	6100.0	6100.0	6100.0	6100.0	6100.0	6100.0				
Grand Total Capacity				30828.0	30828.0	30828.0	30828.0	30828.0	30828.0	30828.0	30828.0	30828.0	30828.0	30828.0	30828.0	30828.0				
Total Headroom				10994.0	10957.0	9730.0	9730.0	9730.0	9730.0	9730.0	9730.0	9730.0	9730.0	9730.0	9730.0	9730.0				

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

Shared pool
Propose to support LIGO DISCUSS

Usually 5% - set to zero for now

Need to check the total allocatable

Need to check the total allocatable

TB - Powers of 10!

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

	Jun 17 Used	Jun 17 Alloc	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Apr 2018	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	798	204	312	598
ATLAS	8863.5	22750	22750	22750	22750	22750	22750	22750	22750	22750	22750	22750	22750	22750	32125	8125	14500	22750
CMS	7966.0	12720	12720	12720	12720	12720	12720	12720	12720	12720	12720	12720	12720	12720	14000	5920	8000	12720
LHCb	6640.0	12870	12870	12870	12870	12870	12870	12870	12870	12870	12870	12870	12870	12870	16260	7110	12630	12870
SuperB	2.1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
ILC	213.0	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
MICE	23.1	75	75	75	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	15	15	15
MOBRIN																		
NA48/NA62	0.0	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
T2K	796.8	1800	1800	1800	1800	1800	1800	1800	1800	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	0	0	0
Pheno	0.0	0	5	5	5	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	0	0	0
SOLID			100	100	100	100	100	100	100	100	100	100	100	100	100	100	200	200
SNO+	52.4	50	50	50	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	0	0	0
DiRAC	1484.3	5000	5000	5000	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	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	15.0	15.0	15.0
Fabric	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	26935.1	56660.0	56815	56815	56815	56815	56815	56815	56815	56815	56815	56815	56815	56815	70888			
LCG Total 2015	24351.5	49210.0	49210	49210	49210	49210	49210	49210	49210	49210	49210	49210	49210	49210		21359		
LCG Total 2016															63183.0	35442	48938	
CURR CAPACITY	55374	55374	55374	55374	55374	55374	55374	55374	55374	55374	55374	55374	55374	55374	55374			
HEADROOM	28438.9	-1286.0	-1441.0	-1441.0	-1441.0	-1441.0	-1441.0	-1441.0	-1441.0	-1441.0	-1441.0	-1441.0	-1441.0	-1441.0	-15514			

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

Ongoing requirement to be decided at the resource meeting.

Plan to expand to 1.8PB during 2016

Planned to increase by 100TB each year

Up to 150TB over time?

total alloc. from AL Need to discuss!!

- 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