

GRIDPP - UK Tier 1 Experiment Requests: 2016 - June 2016

UK Tier 1 Requests - 2016/17
CPU (HEPSPEC06)

	May 16 Used	May 16 Alloc	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Apr 2017	GridPP4 2015	WLCG 15 Pledged	WLCG 16 Pledged
ALICE	17000	3140	3140	3140	3140	3140	3140	3140	3140	3140	3140	4420	4420	4420	4420	0	2400	3140
ATLAS	59196	71656	71656.3	71656	71656	71656.3	71656.3	71656.3	71656.3	71656.3	71656.3	91906	91906	91906	91906	125750	56250	65000
CMS	12700	34100	34100	34100	34100	34100	34100	34100	34100	34100	34100	46100	46100	46100	46100	29260	24000	32000
LHCb	51861	46800	46800	46800	46800	46800	46800	46800	46800	46800	46800	56700	56700	56700	56700	14220	35400	46800
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	3100	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	1926	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	777	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+	2367	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	47000	47000	47000	47000	47000	47000	47000	47000	47000	47000			
Other	2296	10	10	10	10	10	10	10	10	10	10	10	10	10	10	16920		
TOTAL	151223	157526	204576	204576	204576	204576	204576	204576	204576	204576	204576	248006	248006	248006	248006	186150		
LCG Total 2015	140757	155696	155696	155696	155696	155696	155696	155696	155696	155696	155696	199126	199126	199126	199126		118050	
LCG Total 2015															199126.0			146940
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	165685	165685	250910	250910	250910	250910	250910	250910	250910	250910	250910	250910	250910	250910	250910			
HEADROOM	14462	8159	46334	46334	46334	46334	46334	46334	46334	46334	46334	2904	2904	2904	2904			

2015 allocation figure includes the (15%) uplift for upgrade work which was added in 2014 over the REBUS figure
 2015 allocation figure includes the (15%) uplift for upgrade work which was added in 2014 over the REBUS figure

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 - 2016/17
DISK(TeraBytes)

	May 16 deploy	May 16 Used	May 16 Alloc	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Apr 2017	GridPP4 2015	WLCG 15 Pledged	WLCG 16 Pledged
ALICE	395	186	420	420	420	420	420	420	420	420	420	420	500	500	500	500	0	356	420
ATLAS	6167	5369	5875	5875	5875	5875	5875	5875	5875	5875	5875	5875	7125	7125	7125	7125	16590	4500	5875
GMS	2525	1461	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	3920	3920	3920	3920	3760	2080	2640
LHCb	3812	2989	4050	4050	4050	4050	4050	4050	4050	4050	4050	4050	5310	5310	5310	5310	1020	3510	4050
SuperB			0	0	0	0	0	0	0	0	0	0	0	0	0	0			
ILC			0	0	0	0	0	0	0	0	0	0	0	0	0	0			
MICE			0	0	0	0	0	0	0	0	0	0	0	0	0	0			
MINOS			0	0	0	0	0	0	0	0	0	0	0	0	0	0			
MOBRAIN			0	0	0	0	0	0	0	0	0	0	0	0	0	0			
NA48/NA62			0	0	0	0	0	0	0	0	0	0	0	0	0	0			
T2K			0	0	0	0	0	0	0	0	0	0	0	0	0	0			
ZEUS			0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Pheno			0	0	0	0	0	0	0	0	0	0	0	0	0	0			
UKQCD			0	0	0	0	0	0	0	0	0	0	0	0	0	0			
SNO+			0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Dteam/Ops			0	0	0	0	0	0	0	0	0	0	0	0	0	0			
CEPH Instance			0	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000	9000			
Other	850.0	115.0	845	845	845	845	845	845	845	845	845	845	845	845	845	845	2140		
TOTAL	13749	10120	13830	13830.0	22830.0	22830.0	22830.0	22830.0	22830.0	22830.0	22830.0	22830.0	26700.0	26700.0	26700.0	26700.0	23510		
LCG Total 2015	12899	10005	12985	12985.0	12985.0	12985.0	12985.0	12985.0	12985.0	12985.0	12985.0	12985.0	16855.0	16855.0	16855.0			10446	
LCG Total 2016																16855.0			12985
Reserve	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
CURR CAPACITY	17922	17922	17922	14954	24854	24854	24854	24854	24854	24854	24854	24854	24854	24854	24854	24854			
HEADROOM	4173.0	7802.0	4092.0	1124.0	2024.0	2024.0	2024.0	2024.0	2024.0	2024.0	2024.0	2024.0	-1846.0	-1846.0	-1846.0	-1846.0			

Actual ALICE deployment is shown

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

Shared pool

Shared pool

Shared pool

Shared pool

Shared pool

Shared pool

Shared pool

Shared pool

Shared pool

Shared pool

Shared pool

Note Pheno would like ~5TB staging space on the SE. This would come from the general pool

Allocation to CEPH delayed by 2015 purchase

Usually 5% - set to zero for now
April 2016 - Estimated Capacity dependant on next purchase

UK Tier 1 Requests - 2016/17 TAPE(TeraBytes)																	GridPP4 2015	WLCG 15 Pledged	WLCG 16 Pledged
	May 16 Used	May 16 Alloc	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Apr 2017				
ALICE	871.0	870	870	870	870	870	870	870	870	870	870	870	870	870	870	0	204	312	
ATLAS	6516.0	14500	14500	14500	14500	14500	14500	14500	14500	14500	14500	21625	21625	21625	21625	7750	8125	14500	
CMS	5296.0	7740	8000	8000	8000	8000	8000	8000	8000	8000	8000	10800	10800	10800	10800	6400	5920	8000	
LHCb	3351.0	7740	7740	7740	7740	7740	7740	7740	7740	7740	7740	11640	11640	11640	11640	1680	7110	12630	
SuperB	2.1	5	5	5	5	5	5	5	5	5	5	5	5	5	5				
ILC	196.0	300	300	300	300	300	300	300	300	300	300	300	300	300	300				
MICE	7.9	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	90	90	90	90	90	90	90	90	90	90				
T2K	720.0	1000	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				
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+	17.7	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	1171.0	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				
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	1580			
Fabric	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
TOTAL	18160.6	37400.0	38465	38465	38465	38515	38515	38515	38515	38515	38515	52340	52340	52340	52340	17410			
LCG Total 2015	16034.0	30850.0	31110	31110	31110	31110	31110	31110	31110	31110	31110	44935	44935	44935			21359		
LCG Total 2016															44935.0			35442	
CURR CAPACITY	31667	31667	44364	44364	44364	44364	44364	44364	44364	44364	44364	44364	44364	44364	44364				
HEADROOM	13506.4	-5733.0	5899.0	5899.0	5899.0	5849.0	5849.0	5849.0	5849.0	5849.0	5849.0	-7976.0	-7976.0	-7976.0	-7976.0				

New ALICE RRB request for 2014 is much reduced. Need to check what is a realistic figure.

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

Will allocate to meet Experiment requirement as defined in REBUS initially

May goto 300TB next year (2015) rising to 1 PB possibly

Ongoing requirement to be decided at the resource meeting.

Planned increase in usage from 2014 recently funded.

Plan to expand to 1.8PB during 2016

SNO+ requested an increase in Nov2013

Up to 150TB over time?

total alloc. from AS

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