

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

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

	Feb 15 Used	Feb 15 Alloc	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr 2016	GridPP4 2015	WLCG 15 Pledged	WLCG 16 Pledged
ALICE	9359	2400	3140	3140	3140	3140	3140	3140	3140	3140	3140	3140	3140	3140	3140	0	2400	3140
ATLAS	57748	62906	71656.3	71656	71656	71656.3	71656.3	71656.3	71656.3	71656.3	71656.3	71656.3	71656.3	71656.3	71656.25	125750	56250	65000
CMS	14320	26100	34100	34100	34100	34100	34100	34100	34100	34100	34100	34100	34100	34100	34100	29260	24000	32000
LHCb	23893	35400	46800	46800	46800	46800	46800	46800	46800	46800	46800	46800	46800	46800	46800	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	2047	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	4489	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+	607	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			0	0	47000	47000	47000	47000	47000	47000	47000	47000	47000	47000	47000			
Other	691	10	10	10	10	10	10	10	10	10	10	10	10	10	10	16920		
<b>TOTAL</b>	<b>113155</b>	<b>128636</b>	<b>157576</b>	<b>157576</b>	<b>204576</b>	<b>204576</b>	<b>204576</b>	<b>204576</b>	<b>204576</b>	<b>204576</b>	<b>204576</b>	<b>204576</b>	<b>204576</b>	<b>204576</b>	<b>204576.3</b>	<b>186150</b>		
LCG Total 2015	105320	126806	155696	155696	155696	155696	155696	155696	155696	155696	155696	155696	155696	155696	155696		118050	
LCG Total 2015															155696.3			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				
<b>CURR CAPACITY</b>	<b>165685</b>	<b>165685</b>	<b>165685</b>	<b>165685</b>	<b>268540</b>	<b>250910</b>	<b>250910</b>	<b>250910</b>	<b>250910</b>	<b>250910</b>	<b>250910</b>	<b>250910</b>	<b>250910</b>	<b>250910</b>	<b>250910</b>			
<b>HEADROOM</b>	<b>52530</b>	<b>37049</b>	<b>8109</b>	<b>8109</b>	<b>63964</b>	<b>46334</b>	<b>46334</b>	<b>46334</b>	<b>46334</b>	<b>46334</b>	<b>46334</b>	<b>46334</b>	<b>46334</b>	<b>46334</b>	<b>46334</b>			

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)**

	Feb 15 deploy	Feb 15 Used	Feb 15 Alloc	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr 2016	GridPP4 2015	WLCG 15 Pledged	WLCG 16 Pledged
ALICE	395	186	356	420	420	420	420	420	420	420	420	420	420	420	420	420	0	356	420
ATLAS	5217	4586	4500	5875	5875	5875	5875	5875	5875	5875	5875	5875	5875	5875	5875	5875	16590	4500	5875
GMS	2525	1473	2080	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640	3760	2080	2640
LHCb	3900	3256	3510	4050	4050	4050	4050	4050	4050	4050	4050	4050	4050	4050	4050	4050	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	0	0	0	0	9000	9000	9000	9000	9000	9000	9000	9000	9000			
Other	805.0	61.0	845	845	845	845	845	845	845	845	845	845	845	845	845	845	2140		
<b>TOTAL</b>	<b>12842</b>	<b>9562</b>	<b>11291</b>	<b>13830.0</b>	<b>13830.0</b>	<b>13830.0</b>	<b>13830.0</b>	<b>22830.0</b>	<b>22830.0</b>	<b>22830.0</b>	<b>22830.0</b>	<b>22830.0</b>	<b>22830.0</b>	<b>22830.0</b>	<b>22830.0</b>	<b>22830.0</b>	<b>23510</b>		
LCG Total 2015	12037	9501	10446	12985.0	12985.0	12985.0	12985.0	12985.0	12985.0	12985.0	12985.0	12985.0	12985.0	12985.0	12985.0	12985.0		10446	
LCG Total 2016																12985.0			12985
Reserve	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
CURR CAPACITY	17922	17922	17922	14954	14954	14954	14954	24854	24854	24854	24854	24854	24854	24854	24854	24854			
HEADROOM	5080.0	8360.0	6631.0	1124.0	1124.0	1124.0	1124.0	2024.0	2024.0	2024.0	2024.0	2024.0	2024.0	2024.0	2024.0	2024.0			

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

Shared pool

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

Shared pool

Shared pool

Shared 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)

	Feb 15 Used	Feb 15 Alloc	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr 2016	GridPP4 2015	WLCG 15 Pledged	WLCG 16 Pledged
ALICE	870.0	870	870	870	870	870	870	870	870	870	870	870	870	870	870	0	204	312
ATLAS	5734.0	8125	14500	14500	14500	14500	14500	14500	14500	14500	14500	14500	14500	14500	14500	7750	8125	14500
CMS	4945.0	5920	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	6400	5920	8000
LHCb	3207.0	7110	7740	7740	7740	7740	7740	7740	7740	7740	7740	7740	7740	7740	7740	1680	7110	12630
SuperB	2.1	5	5	5	5	5	5	5	5	5	5	5	5	5	5			
ILC	183.0	150	300	300	300	300	300	300	300	300	300	300	300	300	300			
MICE	5.9	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	679.0	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	470.0	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000			
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			
<b>TOTAL</b>	<b>16125.6</b>	<b>28425.0</b>	<b>38465</b>	<b>38465</b>	<b>38465</b>	<b>38465</b>	<b>38465</b>	<b>38465</b>	<b>38465</b>	<b>38465</b>	<b>38465</b>	<b>38465</b>	<b>38465</b>	<b>38465</b>	<b>38465</b>	<b>17410</b>		
LCG Total 2015	14756.0	22025.0	31110	31110	31110	31110	31110	31110	31110	31110	31110	31110	31110	31110	31110		21359	
LCG Total 2016															31110.0			35442
<b>CURR CAPACITY</b>	<b>31667</b>	<b>31667</b>	<b>44364</b>	<b>44364</b>	<b>44364</b>	<b>44364</b>	<b>44364</b>	<b>44364</b>	<b>44364</b>	<b>44364</b>	<b>44364</b>	<b>44364</b>	<b>44364</b>	<b>44364</b>	<b>44364</b>			
<b>HEADROOM</b>	<b>15541.4</b>	<b>3242.0</b>	<b>5899.0</b>	<b>5899.0</b>	<b>5899.0</b>	<b>5899.0</b>	<b>5899.0</b>	<b>5899.0</b>	<b>5899.0</b>	<b>5899.0</b>	<b>5899.0</b>	<b>5899.0</b>	<b>5899.0</b>	<b>5899.0</b>	<b>5899.0</b>			

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

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](http://www.gridpp.ac.uk/docs/gridpp4/GridPP4_Proposal_Final.pdf). Page 9