

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

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

	Nov 16 Used	Nov 16 Alloc	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Apr 2017	WLCG 15 Pledged	WLCG 16 Pledged	WLCG 17 Pledge
ALICE	15653	3140	3140	3140	3140	3140	3140	3140	3140	3140	3140	4840	4840	4840	4840	2400	3140	4840
ATLAS	61072	71656	71656.3	71656.25	71656.3	71656.3	71656.3	71656.3	71656.3	71656.3	71656.3	103175	103175	103175	103175	56250	65000	103175
CMS	17281	34100	34100	34100	34100	34100	34100	34100	34100	34100	34100	46400	46400	46400	46400	24000	32000	46400
LHCb	46086	46800	46800	46800	46800	46800	46800	46800	46800	46800	46800	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	5763	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	174	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	607	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+	662	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			47000	47000	47000	47000	47000	47000	47000	47000	47000	47000	47000	47000	47000			
Other	0	10	10	10	10	10	10	10	10	10	10	10	10	10	10			
<b>TOTAL</b>	<b>147299</b>	<b>157526</b>	<b>204576</b>	<b>204576.25</b>	<b>204576</b>	<b>204576</b>	<b>204576</b>	<b>204576</b>	<b>204576</b>	<b>204576</b>	<b>204576</b>	<b>261315</b>	<b>261315</b>	<b>261315</b>	<b>261315</b>			
LCG Total 2015	140092	155696	155696	155696	155696	155696	155696	155696	155696	155696	155696	212435	212435	212435		118050		
LCG Total 2015															212435.0		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	268265	268265	268265	246757			
HEADROOM	99459	89231	42181	42181	42181	42181	42181	42181	42181	42181	42181	6950	6950	6950	-14558			

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

UK Tier 1 Requests - 2016/17  
DISK(TeraBytes)

	Nov 16 deploy	Nov 16 Used	Nov 16 Alloc	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Apr 2017	WLCG 15 Pledged	WLCG 16 Pledged	WLCG 17 pledge
ALICE	861	186	420	420	420	420	420	420	420	505	505	505	505	505	505	504.8	356	420	505
ATLAS	5989	5354	5875	5875	5875	5875	5875	5875	5875	7950	7950	7950	7950	7950	7950	7950	4500	5875	7950
CMS	2663	1898	2640	2640	2640	2640	2640	2640	2640	4304	4304	4304	4304	4304	4304	4304	2080	2640	4304
LHCb	5592	3661	4050	4050	4050	4050	4050	4050	4050	6162	6162	6162	6162	6162	6162	6162	3510	4050	6162
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			
Other	690.0	28.0	845	845	845	845	845	845	845	845	845	845	845	845	845	845			
<b>TOTAL</b>	<b>15795</b>	<b>11127</b>	<b>13830</b>	<b>13830.0</b>	<b>13830.0</b>	<b>13830.0</b>	<b>13830.0</b>	<b>13830.0</b>	<b>13830.0</b>	<b>19765.8</b>	<b>19765.8</b>	<b>19765.8</b>	<b>19765.8</b>	<b>19765.8</b>	<b>19765.8</b>	<b>19765.8</b>			
LCG Total	15105	11099	12985	12985.0	12985.0	12985.0	12985.0	12985.0	12985.0	18920.8	18920.8	18920.8	18920.8	18920.8	18920.8	18920.8	10446		
Reserve	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
CURR CAPACITY	16259	16259	16259	16259	16259	16259	17233	17233	17233	17233	17233	17233	17233	17233	17233	17233			
HEADROOM	464.0	5132.0	2429.0	2429.0	2429.0	2429.0	3403.0	3403.0	3403.0	-2532.8	-2532.8	-2532.8	-2532.8	-2532.8	-2532.8	-3506.8			
<b>CEPH Instance</b>																			
ALICE							0	0	0	0	0	0	0	0	0	0			
ATLAS							2800	2800	2800	4000	4000	4000	4000	4000	4000	4000			
CMS							2800	2800	2800	4000	4000	4000	4000	4000	4000	4000			
LHCb							0	0	0	0	0	0	0	1000	1000	1000			
Castor Disk buffer																			
Other VOS (S3)							100	100	100	100	100	100	100	100	100	100			
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5600</b>	<b>5600</b>	<b>5600</b>	<b>8000</b>	<b>8000</b>	<b>8000</b>	<b>9000</b>	<b>9000</b>	<b>9400</b>	<b>0</b>			
Reserve				0	0	0	0	0	0	0	0	0	0	0	0	0			
CURR CAPACITY							9000	9000	9000	9000	9000	9000	9000	9000	9000	9000			
HEADROOM				0.0	0.0	0.0	3400.0	3400.0	3400.0	1000.0	1000.0	1000.0	0.0	0.0	-400.0	9000.0			
Grand Total Capacity							26233.0	26233.0	26233.0	26233.0	26233.0	26233.0	26233.0	26233.0	26233.0				

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

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

Shared pool

Shared pool

Shared pool

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

UK Tier 1 Requests - 2016/17  
TAPE(TeraBytes)

	Nov 16 Used	Nov 16 Alloc	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-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	7319.0	14500	14500	14500	14500	14500	14500	14500	22750	22750	22750	22750	22750	22750	22750	8125	14500	22750
CMS	4696.0	8000	8000	8000	8000	8000	8000	8000	12720	12720	12720	12720	12720	12720	12720	5920	8000	12720
LHCb	5777.0	7740	7740	7740	7740	7740	7740	7740	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			
ILC	388.0	300	300	300	300	300	300	300	400	400	400	400	400	400	400			
MICE	10.6	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	773.9	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+	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	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			
<b>TOTAL</b>	<b>21089.2</b>	<b>37660.0</b>	<b>38515</b>	<b>38515</b>	<b>38515</b>	<b>38515</b>	<b>38515</b>	<b>38515</b>	<b>56715</b>	<b>56715</b>	<b>56715</b>	<b>56715</b>	<b>56715</b>	<b>56715</b>	<b>56715</b>			
LCG Total 2015	18674.0	31110.0	31110	31110	31110	31110	31110	31110	49210	49210	49210	49210	49210	49210	49210	21359		
LCG Total 2016															49210.0		35442	48938
CURR CAPACITY	44362	44362	44362	44362	44362	44362	44362	44362	44362	44362	44362	44362	44362	44362	44362			
HEADROOM	23272.8	6702.0	5847.0	5847.0	5847.0	5847.0	5847.0	5847.0	-12353.0	-12353.0	-12353.0	-12353.0	-12353.0	-12353.0	-12353			

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

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