

GRIDPP - UK Tier 1 Experiment Requests: 2015 - Dec 2015

UK Tier 1 Requests - 2015/16  
CPU (HEPSPEC06)

	Nov 15 Used	Nov 15 Alloc	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Apr 2016	GridPP4 2015	WLCG 15 Pledged	WLCG 16 Pledged
ALICE	11562	2400	2400	2400	2400	3140	3140	3140	3140	3140	3140	3140	3140	3140	3140	0	2400	3140
ATLAS	88666	62906	62906	62906	62906	71656.3	71656.3	71656.3	71656.3	71656.3	71656.3	71656.3	71656.3	71656.3	71656.25	125750	56250	65000
CMS	14740	26100	26100	26100	26100	34100	34100	34100	34100	34100	34100	34100	34100	34100	34100	29260	24000	32000
LHCb	29002	35400	35400	35400	35400	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	3947	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			
NA48/NA62	281	500	500	500	500	500	500	500	500	500	500	500	500	500	500			
T2K	984	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+	153	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	0	0	0	47000	47000	47000	47000	47000	47000	47000	47000	47000	47000			
Other	1490	10	10	10	10	10	10	10	10	10	10	10	10	10	10	16920		
<b>TOTAL</b>	<b>155314</b>	<b>128636</b>	<b>128686</b>	<b>128686</b>	<b>128686</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	143970	126806	126806	126806	126806	155696	155696	155696	155696	155696	155696	155696	155696	155696	155696.3		118050	
LCG Total 2015																		<b>146940</b>
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			
<b>CURR CAPACITY</b>	<b>165685</b>	<b>165685</b>	<b>165685</b>	<b>165685</b>	<b>165685</b>	<b>165685</b>	<b>165685</b>	<b>245155</b>	<b>245155</b>	<b>245155</b>	<b>245155</b>	<b>245155</b>	<b>245155</b>	<b>245155</b>	<b>245155</b>			
<b>HEADROOM</b>	<b>10371</b>	<b>37049</b>	<b>36999</b>	<b>36999</b>	<b>36999</b>	<b>-38891</b>	<b>-38891</b>	<b>40579</b>	<b>40579</b>	<b>40579</b>	<b>40579</b>	<b>40579</b>	<b>40579</b>	<b>40579</b>	<b>40579</b>			

2015 allocation figure includes the (15%) uplift for upgrade work which was added in 2014 over the REBUS figure  
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*This at 30% from Sep 2014.*

*New VO added May 2013*

*Na 62 build up during September13*

*Usage increased rapidly in Oct*

*Usage started in Oct*

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

TB - Powers of 10!

UK Tier 1 Requests - 2015/16 DISK(TeraBytes)			Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Apr 2016	GridPP4 2015	WLCG 15 Pledged	WLCG 16 Pledged
	Nov 15 deploy	Nov 15 Used	Nov 15 Alloc															
ALICE	395	190	356	356	356	356	420	420	420	420	420	420	420	420	420	0	356	420
ATLAS	5167	4424	4500	4500	4500	4500	5875	5875	5875	5875	5875	5875	5875	5875	5875	16590	4500	5875
CMS	2485	1436	2080	2080	2080	2080	2640	2640	2640	2640	2640	2640	2640	2640	2640	3760	2080	2640
LHCb	3900	3075	3510	3510	3510	3510	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		
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	6000	6000	6000	6000	6000		
Other	805.0	63.0	845	845	845	845	845	845	845	845	845	845	845	845	845	2140		
<b>TOTAL</b>	<b>12752</b>	<b>9188</b>	<b>11291</b>	<b>11291.0</b>	<b>11291.0</b>	<b>11291.0</b>	<b>13830.0</b>	<b>13830.0</b>	<b>13830.0</b>	<b>13830.0</b>	<b>13830.0</b>	<b>19830.0</b>	<b>19830.0</b>	<b>19830.0</b>	<b>19830.0</b>	<b>23510</b>		
LCG Total 2015	11947	9125	10446	10446.0	10446.0	10446.0	12985.0	12985.0	12985.0	12985.0	12985.0	12985.0	12985.0	12985.0	12985.0		10446	
LCG Total 2016																		
Reserve	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
CURR CAPACITY	17922	17922	17922	17566	17566	17566	14954	14954	14954	14954	24854	24854	24854	24854	24854	24854		
HEADROOM	5170.0	8734.0	6631.0	6275.0	6275.0	6275.0	1124.0	1124.0	1124.0	1124.0	5024.0	5024.0	5024.0	5024.0	5024.0	5024.0		

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

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 - 2015/16  
TAPE(TeraBytes)

	Nov 15 Used	Nov 15 Alloc	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Apr 2016	GridPP4 2015	WLCG 15 Pledged	WLCG 16 Pledged	
ALICE	870.0	420	870	870	870	870	870	870	870	870	870	870	870	870	870	0	204	312	
ATLAS	6605.0	8125	8125	8125	8125	14500	14500	14500	14500	14500	14500	14500	14500	14500	14500	7750	8125	14500	
CMS	4328.0	5920	5920	5920	5920	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	6400	5920	8000
LHCb	3062.0	7110	7110	7110	7110	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	5			
ILC	171.0	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150			
MICE	5.6	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			
NA48/NA62	0.0	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90			
T2K	679.0	1000	1000	1000	1000	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			
Pheno	0.0	0	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			
SNO+	16.3	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			
DIRAC			5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000			
Other	3.6	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	1580		
Fabric	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
<b>TOTAL</b>	<b>15754.5</b>	<b>22975.0</b>	<b>28430</b>	<b>28430</b>	<b>28430</b>	<b>38315</b>	<b>38315</b>	<b>38315</b>	<b>38315</b>	<b>38315</b>	<b>38315</b>	<b>38315</b>	<b>38315</b>	<b>38315</b>	<b>38315</b>	<b>17410</b>			
LCG Total 2015	14865.0	21575.0	22025	22025	22025	31110	31110	31110	31110	31110	31110	31110	31110	31110	31110		21359		
LCG Total 2016															31110.0			35442	
CURR CAPACITY	31667	31667	32448	32448	32448	44364	44364	44364	44364	44364	44364	44364	44364	44364	44364				
HEADROOM	15912.5	8692.0	4018.0	4018.0	4018.0	6049.0	6049.0	6049.0	6049.0	6049.0	6049.0	6049.0	6049.0	6049.0	6049.0				

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

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