

GRIDPP - UK Tier 1 Experiment Requests: 2021

Q420 data

UK Tier 1 Requests - 2021
CPU (HEPSPEC06)

VO requirements

	Usage last quarter	Alloc	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Apr 2021	WLCG 20 pledge	WLCG 2021 pledge
ALICE	10222	10950	10950	10950	10950	14940	14940	14940	14940	14940	14940	14940	14940	14940	14940	10950	14940
ATLAS	145787	156436	156436	156436	156436	173160	173160	173160	173160	173160	173160	173160	173160	173160	173160	156436	173160
CMS	72553	52000	52000	52000	52000	52000	52000	52000	52000	52000	52000	52000	52000	52000	52000	52000	52000
LHCb	88803	81300	81300	81300	81300	129150	129150	129150	129150	129150	129150	129150	129150	129150	129150	81300	129150
Biomed	133																
DUNE	2742	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
enmr	0	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
ILC	338	600	600	600	600	600	600	600	600	600	600	600	600	600	600		
MOBRAIN	0																
NA62	869	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000		
T2K	451	600	600	600	600	600	600	600	600	600	600	600	600	600	600		
Pheno	0	200	200	200	200	200	200	200	200	200	200	200	200	200	200		
SNO+	83	200	200	200	200	200	200	200	200	200	200	200	200	200	200		
GridPP	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
IRIS																	
LSST	0	1000															
Virgo	0																
Other		10	10	10	10	10	10	10	10	10	10	10	10	10	10		
TOTAL	321990	306346	305346	305346	305346	373910	373910	373910	373910	373910	373910	373910	373910	373910	373910		
LCG Total	317365	300686	300686	300686	300686	369250	369250	369250	369250	369250	369250	369250	369250	369250	369250		
Sum of Non-LHC	1751	4660	3660	3660	3660	3660	3660	3660	3660	3660	3660	3660	3660	3660	3660	300686	369250
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		
CURR CAPACITY	458373	458373	458373	458373	458373	458373	458373	458373	458373	458373	458373	458373	458373	458373	458373		
HEADROOM	136383	152027	153027	153027	153027	84463	84463	84463	84463	84463	84463	84463	84463	84463	84463		

Ongoing requirement to be decided at the resource meeting

LSST no formal request currently (Dec 2020).

(Includes LiGO?, SKAtelescope...)

Usually 5% - set to zero for now
Estimated Capacity dependant on 1

**UK Tier 1 Requests - 2021
DISK(TeraBytes)**

		Dec 20 Used	Dec 20 Alloc	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	95% of pledge into disk for each VO. 5% of pledge into tape buffers	WLCG 20 Pledge	Possible WLCG 2021 Pledge
ALICE Echo		323	1320	1320	1320	1320	1599	1599	1599	1599	1599	1599	1599	1599	1599	1254	1320	1599
ATLAS Echo		12143	13024	13024	13024	13024	15540	15540	15540	15540	15540	15540	15540	15540	15540	12373	13024	15540
CMS Echo		5006	5440	5440	5440	5440	5236	5236	5236	5236	5236	5236	5236	5236	5236	5168	5440	5440
LHCb Echo		6470	8370	8370	8370	8370	8460	8460	8460	8460	8460	8460	8460	8460	8460	7952	8370	8460
LIGO(echo)				100	100	100	100	100	100	100	100	100	100	100	100			
DUNE??		956.0		1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
SNO+				50	50	50	50	50	50	50	50	50	50	50	50			
NA62??																		
LSST																		
S3 testing for all VO (Echo)				100	100	100	100	100	100	100	100	100	100	100	100			
IRIS				5346	5346	5346	5346	5346	5346	5346	5346	5346	5346	5346	5346			
Castor Tape buffer (Castor)	1281.0	2139.0	1281	1278	1278	1278	1278	1278	1278	1278	1278	1278	1278	1278	1278			
LCG Total	0	23942	28154	28154	28154	28154	30835	30835	30835	30835	30835	30835	30835	30835	30835		28154	
Echo TOTAL Allocated				34750	34750	34750	37431	37431	37431	37431	37431	37431	37431	37431	37431			
Echo CURR CAPACITY				38071	38071	38071	38071	38071	38071	38071	38071	38071	38071	38071	38071			
Echo HEADROOM				3321.0	3321.0	3321.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0			

New allocation Sep 20

Need to check the total allocatable

1551.95

**UK Tier 1 Requests - 2021
TAPE(TeraBytes)**

	Dec 20 Used	Dec 20 Alloc	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Apr 2021	WLCG 20 Pledge	Possible WLCG 2021 Pledge
ALICE	882	1131	1131	1131	1131	1710	1710	1710	1710	1710	1710	1710	1710	1710	1710	1131	1710
ATLAS	23868	32708	32708	32708	32708	34780	34780	34780	34780	34780	34780	34780	34780	34780	34780	32708	34780
CMS	17718	17600	17600	17600	17600	17600	17600	17600	17600	17600	17600	17600	17600	17600	17600	17600	17600
LHCb	1299	15270	15270	15270	15270	17078	17078	17078	17078	17078	17078	17078	17078	17078	17078	15270	17078
ILC	216	400	400	400	400	400	400	400	400	400	400	400	400	400	400		
MICE	44	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
NA62	1723	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000		
T2K	654	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300		
Pheno		5	5	5	5	5	5	5	5	5	5	5	5	5	5		
SOLID	1127	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
SNO+	230	300	300	300	300	300	300	300	300	300	300	300	300	300	300		
DUNE		1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
Dteam/Ops		0	0	0	0	0	0	0	0	0	0	0	0	0	0		
DIRAC	2605	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000		
DEAP3600		50	50	50	50	50	50	50	50	50	50	50	50	50	50		
Nuclear Physics																	
LSST																	
Other		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		
TOTAL	50366.0	76979.0	76979	76979	76979	81438	81438	81438	81438	81438	81438	81438	81438	81438	81438		
LCG Total 2018	43767.0	66709.0	66709	66709	66709	71168	71168	71168	71168	71168	71168	71168	71168	71168	71168		
LCG Total 2019																66709	
CURR CAPACITY	85000	85000	85000	85000	85000	85000	85000	85000	85000	85000	85000	85000	85000	85000	85000		
HEADROOM	34634.0	8021.0	8021.0	8021.0	8021.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0	3562.0		

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

New allocation 4PB moved forward from April - TBC
Plan to expand to 1.8PB during 2016

Planned to increase by 100TB each year

DUNE will be covered by IRIS resources

DIRAC will be covered by IRIS resources

Up to 150TB over time?

IRIS Capacity 13000

- 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

