

GRIDPP - UK Tier 1 Experiment Requests: 2020

Q220 data

UK Tier 1 Requests - 2020 CPU (HEPSPEC06)				VO requirements													WLCG 20 pledge	Possible WLCG 2021 pledge
	Usage last quarter	Alloc	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Apr 2021			
ALICE	10909	10950	10950	10950	10950	10950	10950	10950	14940	14940	14940	14940	14940	14940	14940	10950	14940	
ATLAS	212794	156436	156436	156436	156436	156436	156436	156436	173160	173160	173160	173160	173160	173160	173160	156436	173160	
GMS	102417	52000	52000	52000	52000	52000	52000	52000	45560	45560	45560	45560	45560	45560	45560	52000	52000	
LHCb	80512	81300	81300	81300	81300	81300	81300	81300	129150	129150	129150	129150	129150	129150	129150	81300	129150	
Biomed	212																	
DUNE	1435	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	111	600	600	600	600	600	600	600	600	600	600	600	600	600	600			
MOBRAIN																		
NA62	2077	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000			
T2K	212	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+	32	200	200	200	200	200	200	200	200	200	200	200	200	200	200			
GridPP	2022	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
IRIS																		
LSST	2	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000			
Virgo	519																	
Other		10	10	10	10	10	10	10	10	10	10	10	10	10	10			
<b>TOTAL</b>	<b>413254</b>	<b>306346</b>	<b>306346</b>	<b>306346</b>	<b>306346</b>	<b>306346</b>	<b>306346</b>	<b>306346</b>	<b>368470</b>	<b>368470</b>	<b>368470</b>	<b>368470</b>	<b>368470</b>	<b>368470</b>	<b>368470</b>	<b>368470</b>		
LCG Total	406632	300686	300686	300686	300686	300686	300686	300686	362810	362810	362810	362810	362810	362810	362810			
Sum of Non-LHC	4975	4660	4660	4660	4660	4660	4660	4660	4660	4660	4660	4660	4660	4660	4660	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	267616	267616	458373	458373	458373	458373	458373	458373	458373	458373	458373	458373	458373	458373	458373	302507		
HEADROOM	-145638	-38730	152027	152027	152027	152027	152027	152027	89903	89903	89903	89903	89903	89903	89903	-65963		

Ongoing requirement to be decided at the resource meeti

LSST placeholder to be monitored.

(Includes LIGO?, SKATElescope...)

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

**UK Tier 1 Requests - 2020**  
**DISK(TeraBytes)**

		Mar 20 Used	Mar 20 Alloc	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	95% of pledge into disk for each VO. 5% of pledge into tape buffers	WLCG 20 Pledge	Possible WLCG 2021 Pledge
ALICE Echo		322	1320	1320	1320	1320	1320	1320	1320	1599	1599	1599	1599	1599	1599	1254	1320	1599
ATLAS Echo		12170	13024	13024	13024	13024	13024	13024	13024	15540	15540	15540	15540	15540	15540	12373	13024	15540
CMS Echo		4890	5440	5440	5440	5440	5440	5440	5440	5236	5236	5236	5236	5236	5236	5168	5440	5168
LHCb Echo		6020	8370	8370	8370	8370	8370	8370	8370	8460	8460	8460	8460	8460	8460	7952	8370	8037
LIGO(echo)				100	100	100	100	100	100	100	100	100	100	100	100			
DUNE??																		
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	23402	28154	28154	28154	28154	28154	28154	28154	30835	30835	30835	30835	30835	30835		28154	31039
Echo TOTAL Allocated				33750	33750	33750	33750	33750	33750	36431	36431	36431	36431	36431	36431			
Echo CURR CAPACITY				38071	38071	38071	38071	38071	38071	38071	38071	38071	38071	38071	38071			
Echo HEADROOM				4321.0	4321.0	4321.0	4321.0	4321.0	4321.0	1640.0	1640.0	1640.0	1640.0	1640.0	1640.0			

*Need to check the total allocatable*

1551.95

**UK Tier 1 Requests - 2020  
TAPE(TeraBytes)**

	Jun 20 Used	Jun 20 Alloc	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Apr 2021	WLCG 20 Pledge	Possible WLCG 2021 Pledge
ALICE	882.0	1131	1131	1131	1131	1131	1131	1131	1710	1710	1710	1710	1710	1710	1710	1131	1710
ATLAS	27027.0	32708	32708	32708	32708	32708	32708	32708	34780	34780	34780	34780	34780	34780	34780	32708	34780
CMS	16598.0	17600	17600	17600	17600	17600	17600	17600	15640	15640	15640	15640	15640	15640	15640	17600	17600
LHCb	12861.0	15270	15270	15270	15270	15270	15270	15270	17078	17078	17078	17078	17078	17078	17078	15270	17078
ILC	216.0	400	400	400	400	400	400	400	400	400	400	400	400	400	400		
MICE	44.0	75	100	100	100	100	100	100	100	100	100	100	100	100	100		
NA62	2261.0	800	3000	3000	3000	3000	3000	3000	4000	4000	4000	4000	4000	4000	4000		
T2K	836.0	1800	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300		
Pheno		0	5	5	5	5	5	5	5	5	5	5	5	5	5		
SOLID	1046.0		100	100	100	100	100	100	100	100	100	100	100	100	100		
SNO+	182.0	50	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		
Dteam/Ops		0	0	0	0	0	0	0	0	0	0	0	0	0	0		
DIRAC	2605.0	5000	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		
Nuclear Physics																	
LSST			50	50	50	50	50	50	50	50	50	50	50	50	50		
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		
<b>TOTAL</b>	<b>64558.0</b>	<b>74849.0</b>	<b>76029</b>	<b>76029</b>	<b>76029</b>	<b>76029</b>	<b>76029</b>	<b>76029</b>	<b>79528</b>	<b>79528</b>	<b>79528</b>	<b>79528</b>	<b>79528</b>	<b>79528</b>	<b>74829</b>		
LCG Total 2018	57368.0	66709.0	66709	66709	66709	66709	66709	66709	69208	69208	69208	69208	69208	69208	66709.0		
LCG Total 2019																66709	
<b>CURR CAPACITY</b>	<b>58956</b>	<b>58956</b>	<b>85000</b>	<b>85000</b>	<b>85000</b>	<b>85000</b>	<b>85000</b>	<b>85000</b>	<b>85000</b>	<b>85000</b>	<b>85000</b>	<b>85000</b>	<b>85000</b>	<b>85000</b>	<b>85000</b>		
<b>HEADROOM</b>	<b>-5602.0</b>	<b>-15893.0</b>	<b>8971.0</b>	<b>8971.0</b>	<b>8971.0</b>	<b>8971.0</b>	<b>8971.0</b>	<b>8971.0</b>	<b>5472.0</b>	<b>5472.0</b>	<b>5472.0</b>	<b>5472.0</b>	<b>5472.0</b>	<b>5472.0</b>	<b>10171</b>		

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

New allocation from Sep 20 3PB  
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](http://www.gridpp.ac.uk/docs/gridpp4/GridPP4_Proposal_Final.pdf). Page 9