

GRIDPP - UK Tier 1 Experiment Requests: 2020

Q120 data

UK Tier 1 Requests - 2020
CPU (HEPSPEC06)

	Usage last quarter	Alloc	VO requirements													WLCG 20 pledge	Possible WLCG 2021 pledge		
			Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Apr 2021				
ALICE	7163	10950	10950	10950	10950	10950	10950	10950	10950	10950	10950	10950	10950	14940	14940	14940	14940	10950	14940
ATLAS	145617	156436	156436	156436	156436	156436	156436	156436	156436	156436	156436	156436	156436	173160	173160	173160	173160	156436	173160
GMS	73664	52000	52000	52000	52000	52000	52000	52000	52000	52000	52000	52000	52000	45560	45560	45560	45560	52000	52000
LHCb	91745	81300	81300	81300	81300	81300	81300	81300	81300	81300	81300	81300	81300	129150	129150	129150	129150	81300	129150
DUNE	197	1000	1000	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	50	50		
ILC	4115	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600		
MOBRAIN																			
NA62	1234	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000		
T2K	2156	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600		
Pheno		200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200		
SNO+		200	200	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	0		
IRIS																			
LSST	8986	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
Virgo	1158																		
Other		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		
TOTAL	336035	306346	306346	306346	306346	306346	306346	306346	306346	306346	306346	306346	306346	368470	368470	368470	368470		
LCG Total	318189	300686	300686	300686	300686	300686	300686	300686	300686	300686	300686	300686	300686	362810	362810	362810			
Sum of Non-LHC	17649	4660	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	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	0.0			
CURR CAPACITY	267616	267616	458373	458373	458373	458373	458373	458373	458373	458373	458373	458373	458373	458373	458373	458373	302507		
HEADROOM	-68419	-38730	152027	152027	152027	152027	152027	152027	152027	152027	152027	152027	152027	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	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	95% of pledge into disk for each VO. 5% of pledge into tape buffers	WLCG 20 Pledge	Possible WLCG 2021 Pledge
ALICE Echo			1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1599	1599	1599	1254	1320	1599
ATLAS Echo			13024	13024	13024	13024	13024	13024	13024	13024	13024	13024	15540	15540	15540	12373	13024	15540
CMS Echo			5440	5440	5440	5440	5440	5440	5440	5440	5440	5440	5236	5236	5236	5168	5440	5440
LHCb Echo			8370	8370	8370	8370	8370	8370	8370	8370	8370	8370	8460	8460	8460	7952	8370	8460
LIGO(echo)				100	100	100	100	100	100	100	100	100	100	100	100			
DUNE??																		
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	0	28154	28154	28154	28154	28154	28154	28154	28154	28154	28154	30835	30835	30835		28154	31039
Echo TOTAL Allocated				33700	33700	33700	33700	33700	33700	33700	33700	33700	36381	36381	36381			
Echo CURR CAPACITY				38071	38071	38071	38071	38071	38071	38071	38071	38071	38071	38071	38071			
Echo HEADROOM				4371.0	4371.0	4371.0	4371.0	4371.0	4371.0	4371.0	4371.0	4371.0	1690.0	1690.0	1690.0			

1519.05
14763
5168
8037

1551.95

Need to check the total allocatable

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

	Dec 19 Used	Dec 19 Alloc	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Apr 2021	WLCG 20 Pledge	Possible WLCG 2021 Pledge
ALICE		1131	1131	1131	1131	1131	1131	1131	1131	1131	1131	1710	1710	1710	1710	1131	1710
ATLAS		32708	32708	32708	32708	32708	32708	32708	32708	32708	32708	34780	34780	34780	34780	32708	34780
CMS		17600	17600	17600	17600	17600	17600	17600	17600	17600	17600	15640	15640	15640	15640	17600	17600
LHCb		15270	15270	15270	15270	15270	15270	15270	15270	15270	15270	17078	17078	17078	17078	15270	17078
ILC		400	400	400	400	400	400	400	400	400	400	400	400	400	400		
MICE		75	100	100	100	100	100	100	100	100	100	100	100	100	100		
NA62		800	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000		
T2K		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		Plan to expand to 1.8PB during 2016
SOLID			100	100	100	100	100	100	100	100	100	100	100	100	100		Planned to increase by 100TB each year
SNO+		50	100	100	100	100	100	100	100	100	100	100	100	100	100		
DUNE			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		DUNE will be covered by IRIS resources
Dteam/Ops		0	0	0	0	0	0	0	0	0	0	0	0	0	0		
DIRAC		5000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000		DIRAC will be covered by IRIS resources
DEAP3600			50	50	50	50	50	50	50	50	50	50	50	50	50		
Nuclear Physics																	Up to 150TB over time?
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		
TOTAL		0.0	74849.0	74829	74829	74829	74829	74829	74829	74829	74829	77328	77328	77328	74829		
LCG Total 2018		0.0	66709.0	66709	66709	66709	66709	66709	66709	66709	66709	69208	69208	69208	66709.0		
LCG Total 2019																66709	
CURR CAPACITY		58956	58956	85000	85000	85000	85000	85000	85000	85000	85000	85000	85000	85000	85000		
HEADROOM		58956.0	-15893.0	10171.0	10171.0	10171.0	10171.0	10171.0	10171.0	10171.0	10171.0	7672.0	7672.0	7672.0	10171		

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

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