

GRIDPP - UK Tier 1 Experiment Requests: 2020

UK Tier 1 Requests - 2020
CPU (HEPSPEC06)

VO requirements

	Usage last quarter	Alloc	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Apr 2019	WLCG 19 pledge	Possible WLCG 2020 pledge
ALICE	7156	7300	7300	7300	7300	10950	10950	10950	10950	10950	10950	10950	10950	10950	7300	7300	10950
ATLAS	144482	132125	132125	132125	132125	156436	156436	156436	156436	156436	156436	156436	156436	156436	132125	132125	156436
CMS	80644	52000	52000	52000	52000	52000	52000	52000	52000	52000	52000	52000	52000	52000	52000	52000	52000
LHCb	83881	81300	81300	81300	81300	81300	81300	81300	81300	81300	81300	81300	81300	81300	81300	81300	81300
DUNE	468	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	1953	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600
MOBRAIN	0																
NA62	456	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
T2K	394	600	600	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	200	200
SNO+	0	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
Dteam/Ops	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IRIS																	
LSST	6907	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Other		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
TOTAL	326343	278385	278385	278385	278385	306346	306346	306346	306346	306346	306346	306346	306346	306346	278385		
LCG Total	316163	272725	272725	272725	272725	300686	300686	300686	300686	300686	300686	300686	300686	300686	300686	300686	300686
Sum of Non-LHC	9712	4660	4660	4660	4660	4660	4660	4660	4660	4660	4660	4660	4660	4660	4660	272725	300686
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	302507	302507	302507	458373	458373	458373	458373	458373	458373	458373	458373	458373	302507		
HEADROOM	-58727	-10769	24122	24122	24122	152027	152027	152027	152027	152027	152027	152027	152027	152027	24122		

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)**

	Dec 19 Used	Dec 19 Alloc	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	95% of pledge into disk for each VO. 5% of pledge into tape buffers	WLCG 19 Pledge	Possible WLCG 2020 Pledge
ALICE Echo	314	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	720	758	1320
ATLAS Echo	11877	10450	10450	10450	10450	13024	13024	13024	13024	13024	13024	13024	13024	13024	10450	11000	13024
CMS Echo	4178	5168	5168	5168	5168	5440	5440	5440	5440	5440	5440	5440	5440	5440	5168	5440	5440
LHCb Echo	6281	7952	7952	7952	7952	8370	8370	8370	8370	8370	8370	8370	8370	8370	7952	8370	8370
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			
LCG Total	0	22650	24890	24890	24890	28154	28154	28154	28154	28154	28154	28154	28154	28154		25568	28154
Echo TOTAL Allocated			30436	30436	30436	33700	33700	33700	33700	33700	33700	33700	33700	33700			
Echo CURR CAPACITY			31088	31088	31088	38071	38071	38071	38071	38071	38071	38071	38071	38071			
Echo HEADROOM			652.0	652.0	652.0	4371.0	4371.0	4371.0	4371.0	4371.0	4371.0	4371.0	4371.0	4371.0			

1254
12372.8
5168
7951.5

1407.7

Need to check the total allocatable

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

	Dec 19 Used	Dec 19 Alloc	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Apr 2019	WLCG 19 Pledge	Possible WLCG 2020 Pledge
ALICE	882.0	818	870	870	870	1131	1131	1131	1131	1131	1131	1131	1131	1131	870	754	1131
ATLAS	22257.0	24375	23000	23000	23000	32708	32708	32708	32708	32708	32708	32708	32708	32708	23000	27625	32708
CMS	13258.0	14936	14960	14960	14960	17600	17600	17600	17600	17600	17600	17600	17600	17600	16000	17600	17600
LHCb	12383.0	18231	12578	12578	12578	15270	15270	15270	15270	15270	15270	15270	15270	15270	13000	15270	15270
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			
NA62		800	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000		

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

T2K			1800	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300	1300			Plan to expand to 1.8PB during 2016
Pheno			0	5	5	5	5	5	5	5	5	5	5	5	5	5			
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	5000			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			48780.0	66500.0	59528	59528	59528	74829	74829	74829	74829	74829	74829	74829	74829	62990			
LCG Total 2018			48780.0	58360.0	51408	51408	51408	66709	66709	66709	66709	66709	66709	66709	66709	66709			
LCG Total 2019																			52870.0
																			61249
CURR CAPACITY			58956	58956	85000	85000	85000	85000	85000	85000	85000	85000	85000	85000	85000	85000			
HEADROOM			10176.0	-7544.0	25472.0	25472.0	25472.0	10171.0	10171.0	10171.0	10171.0	10171.0	10171.0	10171.0	10171.0	10171.0			-4034

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