

DUNE CCB Minutes
8th Dec 2022
Virtual meeting only
MINUTES – final

Agenda <https://indico.fnal.gov/event/56852/>

CCB Mail list: DUNE-CCB@FNAL.GOV

Present:

Country/Lab	Name	Present or apologies
Chair	P.Clarke	Present
BR	E.Kemp	Apologies from Helio
CA	L.Groer	Present
CH	M.Weber	
CZ	M.Lokajicek	Present
ES	G.Merino	Apologies sent
FR	E.Pennacchio	Present
IN	N.Panyam	Present
IT	S.Bertolucci	Apologies from Marco
NL	J.Templon	Present
UK	A.McNab	Present
USA	H.Schellman	Apologies sent
RU	N.Balashov	Present
FNAL	K.Herner (taking over from S.Fuess)	Present
BNL	P.Laycock	Present
CERN	Xavier Espinal	Apologies sent
<i>Ex-officio</i>	<i>M.Kirby</i>	<i>Present</i>

1. Introductions

P.Clarke opened the meeting and welcomed members.

2. Usage in 2021

M.Kirby presented the DUNE usage of capacity supplied in 2022. See presentation on agenda page. There is clearly still underuse of pledged resources, although the situation is much better than at the last CCB. It is understood why this is, not least of which :changes to the CERN schedule and the Protodune schedule. Nevertheless, in some cases it is difficult for CCB members to argue to their respective resource providers for the resources if they are not then used. This is because in general one is asking for an allocation from an underfunded computing facility, which is tensioned against many other VOs.

3. DUNE Capacity requirements 2023

M.Kirby presented the DUNE usage of capacity supplied in 2022. See presentation and document on agenda page.

On tape: Due to the previous tape underuse, DUNE has decided to significantly reduce its tape request outside of FNAL and CERN in 2023 until more systematic use can be made of such, whence DUNE will request a further allocation. In practice this only affects the UK and FR who will in any case maintain a reduced tape allocation for development of capability.

On CPU: DUNE has introduced the notion of “Memory Weighted Cores” based upon a standard 2 GB memory as a normalisation point. In this scheme:

- 1 core with 2 GB of memory == 1 MWC
- 1 core with 4 GB of memory == 2 MWC
-etc...

The summary request , taken from the document, is in the snapshot below. The CPU request is in terms of MWC.

	Disk (PB)	Modified Disk (PB)	Tape(PB)	CPU (MWC-years)
Model	25.80	25.80	45.5	15,169
Request				
FNAL	7.80	8.86	36.2	3,792
CERN	2.60	4.00	9.2	3,792
National	15.40	12.94	0.1	7,585
Total	25.80	25.80	45.5	15,169

Table 1: Proposed pledges for 2023. Disk pledges are based on existing CERN and FNAL contributions with National contributions making up the rest of the model request. Tape pledges reflect the dominant use of CERN and FNAL for archival storage of data. CPU pledges are in units of memory-weighted-core-years and assume Fermilab and CERN each pledge 25%.

4. Pledges

The meeting then discussed the pledge spreadsheet. This is at the link below.

There was some discussion, mainly around MWC. Several members said that this is not easy to interpret or pledge MWC within their national systems per-se. However, their pledge can of course be converted to MWC is the memory spread of what is pledge is known.

The pledge spreadsheet has been adapted to have a column for ordinary cores and a column for MWC.

<https://docs.google.com/spreadsheets/d/180JGdW4ezFfx9BEzMRlzTDPbYjllk27U/edit?usp=sharing&ouid=106383089389499751551&rtpof=true&sd=true>

One other item brought up (again) was the request that management make an explicit statement about persistent resources -vs- scratch resources required at sites. This item was also requested at the last CCB.

5. AoB

There was no AoB at the meeting

6. Next meeting

No next meeting was set at the time.