

# DUNE CCB Document

## 2022 Resource Pledge Requests

### For period 1 April 2022 - 31 March 2023

Date of this document: 16-11-2021

CCB Mail list: [DUNE-CCB@FNAL.GOV](mailto:DUNE-CCB@FNAL.GOV)

#### 1. Introduction

It has always been planned to present DUNE total computing and storage requirements to the CCB and then ask CCB members to make pledges to meet them using CRIC. CCB members will have been aware of this.

There has been a somewhat long delay due to getting the numbers into a formal document and in setting up the CRIC system to enable you to do pledges. However, it has only recently been decided and promulgated to NOT use CRIC for this year (due to complexities of getting modifications incorporated into CRIC). Therefore, after this delay, we will move forward using a simple spreadsheet as per previous years.

This document presents the requests to you.

#### 2. REQUEST: The DUNE Capacity requirements 2022

The 2022 requirements are documented in <https://docs.dunescience.org/cgi-bin/ss0/ShowDocument?docid=23419>

The 2022 year is taken to be 1-April 2022 – 31 March 2023 (these are just arbitrary target dates).

Numbers taken from that document are reproduced in the Table below. These are split into three classifications of sites: FNAL, CERN and Other-sites

- The CPU split is done as 25% FNAL and 75% CERN+Other-sites.
- I have then assigned 500 cores arbitrarily to CERN, but let me know if CERN wishes to provide more).
- The Disk and Tape split is bespoke and worked out by the management.

	<b>Total</b>	<b>FNAL</b>	<b>CERN</b>	<b>Other-sites</b>
CPU cores	<b>7780</b>	1945	500	5335
Disk (PB)	<b>27.3</b>	7.6	1.6	18.1
Tape (PB)	<b>33.4</b>	21.8	6.5	5.1

### Availability expectation:

- CPU is expected at a DC level. Thus, CPU should ideally be available by 1 April 2022. Contributions will be compared to pledges at the end of the 2022 year.
- Disk and Tape requirement is expected to grow linearly as a function of time during 2022. Sites are therefore expected to grow their provision from what they currently have in a reasonable way, fitting in with their procurements. Contributions will be compared to pledges 1/2 way through the year (October 2022) and at the end of the year (March 2023).

### 3. Pledges

We are now asking you to make pledges to meet the request. Pledges should be entered into this spreadsheet:

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

The UK number (in black) is firm as it is already known.

The other numbers (in amber) are indicative, taken from what you have said before, but it is up to you now to decide your final 2022 pledge.

#### CPU and Disk ask

Previous discussion at the CCB has indicated that the request per country is a “soft expectation”, recognising that countries are in different positions w.r.t DUNE support. As a guide the CCB has said:

- A default aim is about 10% of the requirement in your category. Thus, for the *Other-sites* category a default ask is about 500 cores and 1.8 PB of disk
- However, a contribution of 5% is fine if you are limited, and for those countries who can provide more than this is fine. Do your best.

#### Tape ask

Tape is not assumed to be available in such a fair share way. This can probably be met by the UK and FR alone.

**CERN:** Can CERN please confirm if they are happy with the figures indicated in the spreadsheet ?