



DUNE General Computing Meeting

Mike Kirby (BNL)

10 June 2024



Agenda

- LBNC Review
- NSG Review
- Upcoming Meetings
- Special talk from Heidi on tutorials

LBNC Review

- <https://indico.fnal.gov/event/63290/>
- Three talks:
 - DUNE CS&C Organization - Ken Herner
 - Framework - Callum Wilkinson
 - Operations - Aaron Higuera
- Two outstanding recommendations that were answered

Comments

- The structure of DUNE computing seems adequate to face the future challenges. Further commitments would be beneficial, particularly from the international partners. We welcome the engagement of new members. We thank Heidi Schellman for the very constructive interactions with the LBNC in the last many years.
- The LBNC continues being worried by the tight schedule for having in place a new Core Software Framework (CSF), early enough for first data in 2028. For example, the time between specifications and completion of the pilot implementation is less than one year.
- The success of the CSF implementation plan is bound to the available effort in FY2025 that is currently below the needs. For example, a Core SW coordinator and SW release managers are still to be appointed.
- The LBNC was happy to hear the news about databases evolution and the welcomes the substantial progress.

Comments

- The LBNC was impressed by the rapid process for development, commissioning and deployment of the new JustIN system, integrated with Rucio. The LBNC congratulates DUNE for this important achievement. The new system provides noticeable improvements in terms of automation and implementation of FAIR data policies.
- The upcoming data taking campaign will be an important activity also for evaluating the progress of the DUNE computing system. We believe that DUNE Software and Computing has done the necessary preparation. Ensuring the availability of GPUs for ND would be an extra reassurance. The LBNC expects a report at the next meeting.

Recommendations: The LBNC requests an update about the CSF at the next meeting. The LBNC recommends that the update presents the specifications and milestones for the pilot implementation plan.

Neutrino Scope Group

Committee is focused on making certain that scope, resources, and timelines align for DUNE.

Three talks:

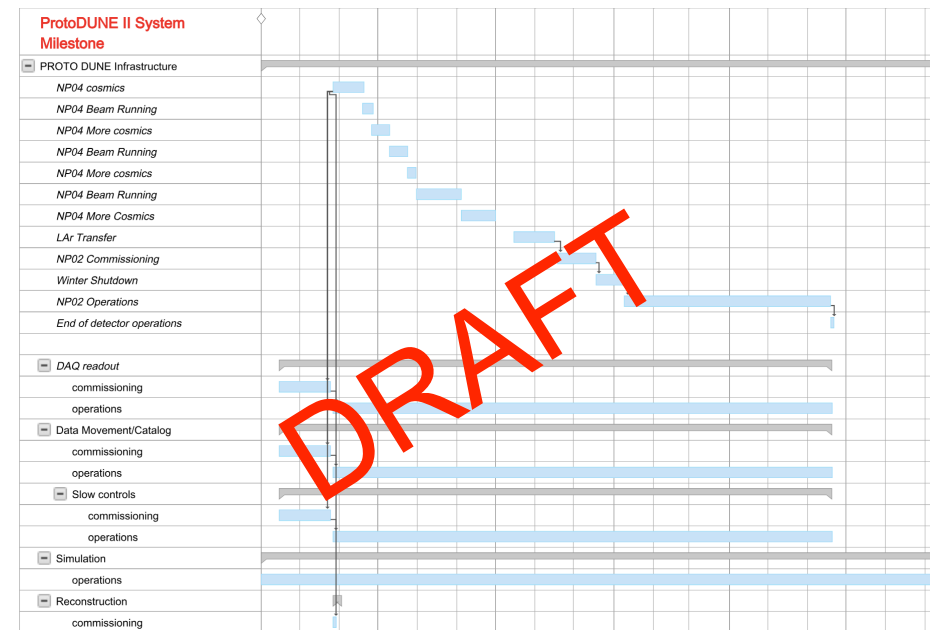
- CS&C overview - Kirby
- Interface documents - Ken Herner
- Resources summary - Andrew McNab

one previous recommendation:

Previous Recommendations - Mar 2024

- The committee suggests doing MDCs earlier than the ones planned in 2026 and 2028 to evaluate more precisely the computing needs.

- Computing Consortium agrees with the assessment and plans on yearly DUNE MDCs in years without WLCG MDCs
- continue to sync with WLCG in 2026, 2028, etc.
- Taking advantage of project management tools provided by FNAL to layout detailed schedule for operations during the coming ProtoDUNE II run. Looking for flexible window for DUNE Mock Data Challenges in 2025.



Previous Recommendations - Mar 2024

- The committee suggests doing MDCs earlier than the ones planned in 2026 and 2028 to evaluate more precisely the computing needs.
- Need to balance operations schedule, effort level available, and timing with project development schedules
- Anticipate either spring or summer 2025 for next data challenge hoping to match core software development and/or completion of PD-II beam operations

Upcoming meetings

- CCB Meeting should be scheduled soon
 - updated on usage and delivery
 - Gonzalo Merino replaced Peter Clarke
- Propose to start having an annual CS&C week(?) sometime during the year
 - request for people willing to host/dates for the meeting

Computing updates

- /dune/data, and /dune/data2 unmounted on May 31, 2024
 - how many screams did we here?
 - remember that CephFS has [snapshots](#) ***BUT ONLY /exp/app/***
- continue to work on switching to [Alma 9](#)
 - good discussions with John Freeman/DAQ group
 - going to need a small army to transition dunesw