Today

- Items from last time:
    - First requests for Fermilab and CERN (virtual machines, physical machines, disk space, batch access, ...)
        - We have questions.
    - First list of computing contact person(s) at CERN
    - DUNE S&C Organization discussions stalled by Easter holidays.
    - Discussion of Data Handling Document
- Meeting date/time.

Data Handling Doc

- Impressive amount of thinking and work by Andrew, Maxim, et al.
    - Basic layout presented last time.
    - Document just migrated to git…
- We are still at the beginning
- The propose scheme, assumes some defaults (e.g. FTS, xrootd).
    - Represents our best understanding and preference of tools that meet the need… but needs to be evaluated and tested.
- At S&C discussion yesterday, became clear that perhaps next step is to try to map the schematic diagram to actual machines.
    - Stu is thinking of setting up a test system at Fermilab…
    - We will need one at CERN. We should start discussing today what that system would look like.
    - We need to understand what services (e.g. catalogues) we can use at Fermilab, and what we need to provide at CERN.
    - 2 decouple-able issues:
        - Online storage system: be able to record at very high burst rates.
        - Data Management/Transfer system.

Feedback from Reviewers of our SCPMT Resource Request

- All experiments should focus on getting memory footprints down to < 2G
- All experiments should be able to run on OSG to gain additional processing cycles
- Fermilab's GP Grid does not have enough slots to meet everyone's FY17 requests. DUNE seems spared (we didn't ask for much in FY17) FY18 is a big deal however.
- Without additional funding, Fermilab will transition OPOS personnel in FY17 away from running production jobs for the experiments to help (or backfill for help) needed to get the memory footprints down and experiments on OSG.

This changes my vision of protoDUNE computing model. Stresses the importance of good WMS and DDM systems.

Requests to CERN

- 2 Types of Work Flow:
    - Privileged: Calibration/Performance role.
    - General: Persons working at CERN, Analyzer, …
- We realized that we don't actually understand what facilities could be available to us.
    - Software Installation: AFS? CVMFS?
    - Dedicated systems:
        - VMs?
        - Build systems. Services?
        - Data Management Test System
            - Something that approximates the network connectivity and other important features…
    - Data Storage:
        - Common Group Areas: NSF?
        - For local reco, do we run on lxplus, read from EOS and write back to EOS?