Fermilab **BENERGY** Office of Science



DAQ and Computing for ArgonCube 2x2 Demonstrator



Geoff Savage 16 November 2023 ND-LAr DAQ/Computing Working Group

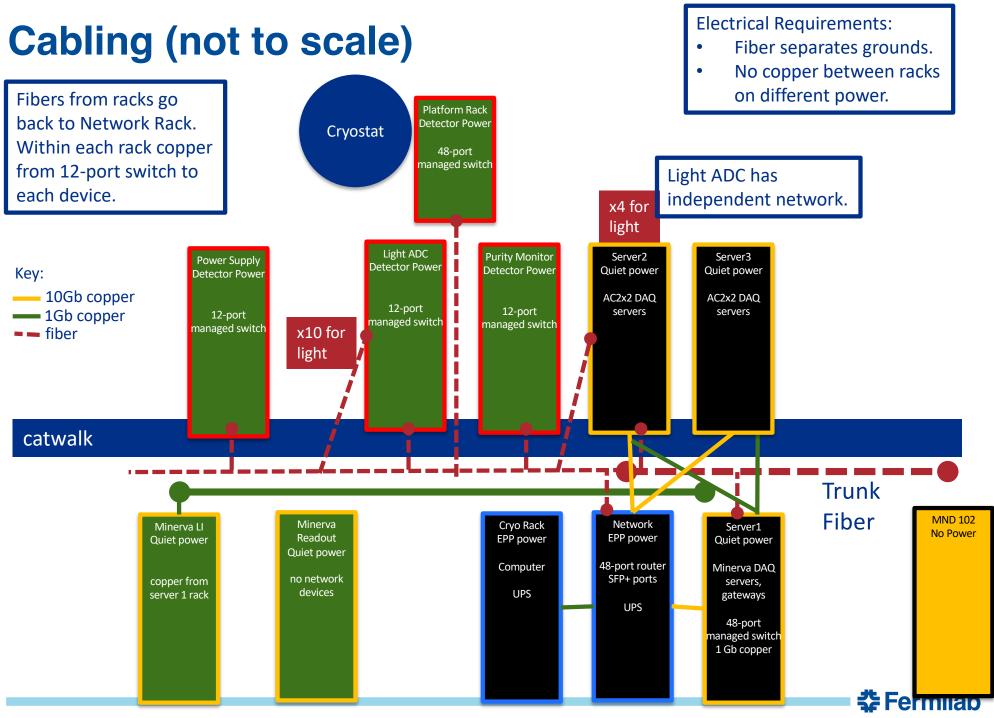


News

- Other Meetings
 - 2x2 Data Formats led by Asher Kaboth
 - Friday at 8:00 PT/10:00 CT/16:00 UK/17:00 CET.
 - <u>https://cern.zoom.us/j/69627437195?pwd=ZWFTREhoQkRxOXFEYzNOWmtTQXp</u> <u>Tdz09</u>
 - Translation software for the 2x2 so that data taken in the current format can be transformed to the DUNE DAQ format.
 - ND prototypes first analysis subgroup meeting this Friday, October 20th at 12pm CT.
 - Indico agenda: https://indico.fnal.gov/event/62135/
 - <u>https://unibe-</u> ch.zoom.us/j/61120021726?pwd=U2RsdUozNEovYVNTaWVNUzI5R2hYQT09</u>
- Searching for a 2x2 Run Coordination meeting time
 - Tuesdays at 10 am CT has been suggested
- 2x2 DUNE integration
 - DUNEDAQ at 2x2 Asher and Co.
 - 2x2 data formats
 - DUNE timing Armin Karcher, Dave Cussans, Geoff
- Next 2x2 DAQ/Computing meeting Thurs 30 Nov 2023 @ 10 CT

Computing Installation Status

- Yesterday the Network, Server2, and Server3 racks were powered on and will remain powered
 - Still a few small items to address in these racks
 - Ground to PDUs
 - Cover up open spaces
- Brief rack summary
 - Network Rack router on UPS
 - Server1 rack Minerva readout servers
 - Server2 rack 2x2 DAQ servers
 - Server3 rack slow controls, operations
- Can now have servers installed with latest linux version (AL9)
- Still a few network items to complete
 - Should be transparent to users



Computing for Commissioning

- Minerva Linux servers underground can be used for noise assessment
 - Need electronics racks powered for network access
- Minerva readout being exercised (SLF7)
 - Update Minerva code to produce metadata files in new format
 - Working on reliability (Akeem, Geoff)
 - Test stand at LabF working now
 - Jack and Akeem replaced VME crate
 - Port Minerva DAQ to AL9
- Work at LArTF continues
 - Computing at LArTF remains in place
 - Trigger testing
 - DUNE timing



References

- 2x2 Computing Summary
 - <u>https://docs.dunescience.org/cgi-</u>
 <u>bin/sso/ShowDocument?docid=29368</u>
 - Presented at the 05 October DAQ/Comp Meeting
- pORC for computing racks
 - <u>https://docs.dunescience.org/cgi-</u> bin/sso/ShowDocument?docid=29419

