ProtoDUNE-SP DAQ support

DUNE DAQ Coordination Team Meeting 2019-07-08

Roland Sipos CERN EP-DT







Short status on PDSP DAQ support

- Operations
 - WIB issues
- Pending tickets (open long time ago)
- DAQ Development Period July
- DAQ on-call shift

Operations

- HV Streamers:
 - \circ $\;$ Auto recovery is on and have continued to took data with 7.5 ms readout window
- Solved the issue with missing data from FEMBs/rate problem on APA-1
- Taking cosmic runs
 - Run 8654: All CEs and SSPs included and they were active during the run

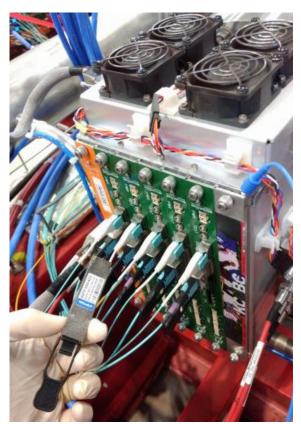


Offline analysis reported missing data from the two FEMBs on APA-1

- Low fragment size on cob4_rce02 (WIB3 on APA-1)
- Following the suggestions of Patrick, Matt, and Roland RCEs and WIBs have been checked
- Issue found to be the transceiver on APA-1, WIB3 and replacing it

with a new one solved the problem

https://pdspelog.web.cern.ch/elisa/display/12479



Pending tickets (long time)

- SSP BoardReader Empty Fragments
 - <u>https://its.cern.ch/jira/browse/NP04DAQ-37</u>
- Disable triggers from DCS
 - <u>https://its.cern.ch/jira/projects/NP04DAQ/issues/NP04DAQ-28</u>
- User friendly configuration tool
 - <u>https://its.cern.ch/jira/projects/NP04DAQ/issues/NP04DAQ-49</u>
- CTB BoardReader to respond to software trigger
 - <u>https://its.cern.ch/jira/projects/NP04DAQ/issues/NP04DAQ-10</u>
- Completion of OnHost FELIX BoardReader
 - <u>https://its.cern.ch/jira/projects/NP04DAQ/issues/NP04DAQ-14</u>

DAQ Development Period

• July sprint:

https://its.cern.ch/jira/projects/NP04DAQ/issues/NP04DAQ-53

- Backlog from May/June period
- Testing tickets will be reorganized:
 - Moved to July ticket or create a testing issue for the sprint
 - <u>https://its.cern.ch/jira/projects/NP04DAQ/issues/NP04DAQ-12</u>

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2019 Calendar

Planning of activities

We had a really nice summary of our plans during the last Dataflow WG meeting.

Please have a look!

https://indico.fnal.gov/event/21169/

Comments and suggestions are more than welcome!

DAQ "on-call" shift

- Aid ProtoDUNE DAQ users in case of issues
 - Follow the np04-shifterassistant channel during the shift
- Summarize what happened on the given day
 - A wrap up of encountered issues and activities in the form of an Elog entry
- Report issues on JIRA
 - Better tracking
 - Proactive way for development (example on next slide)

To sign-up:

https://docs.google.com/spreadsheets/d/18FFU0NWIfB2YN-nKrFjQ91I9g5L5Zh3N8 hr7guZy4PU/edit?usp=sharing



Thank you for your attention!