

LArIAT DAQ: “Known” Issues



- Bursty eventCounter mismatches, V1740 and V1751
 - As frequent as every minute, eventually they calm down
 - Contacted CAEN, they want us to do more tests with extended run gate, $\gg 1$ minute
 - Have added logging and variable threshold for CAEN
- Group of 8 wave form distortion
 - “Solved” by power cycling crate (reset does not help)
 - CAEN cannot reproduce, they gave test procedure
- Cross-talk on TPC readout
 - Dean suspect tying D2S to CAEN ground will help, he is here this week – needs soldering on D2Ss
- Coherent noise on TPC readout
 - Found nearby fluorescent light (but ruled out other lights)
 - Need a systematic program for finding sources

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- DC offset shift on V1751s
 - Added read-back, is this still a problem?
- Have two dead TPC channels, boardId=1, channels 24 and 26
 - Dean suspects cold solder joint on one WRD
- Miscellaneous throws (e.g. boost) not seen by ArtDaq
 - John promises new version
- Occasional mystery CAEN_CommError errors from WFDs
 - Mentioned to Marco L., need to file report
 - Requested access to source code (sticky)
 - Rare problems are hard
- Editing XML files is prone to error
 - Have added check-xml to “go” script, should help
 - Do we need something fancier? (time intensive?)