MINER ν A Commissioning for 2x2

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2x2 DAQ/Computing Meeting Thursday 14, December 2023



Mx2 People

- Jack Smedley, Jeanie, Wolfs, Howard Budd monitoring and repairing detector
- Akeem Hart DAQ upgrades
- Luis Zazueta 2x2 Deputy RunCo
- Alysia Marino DQM
- Tammy Waldron, Carlos Pernas Offline, calibrations
- Faiza Akbar, Renzo Vizarreta organize
- Geoff Savage

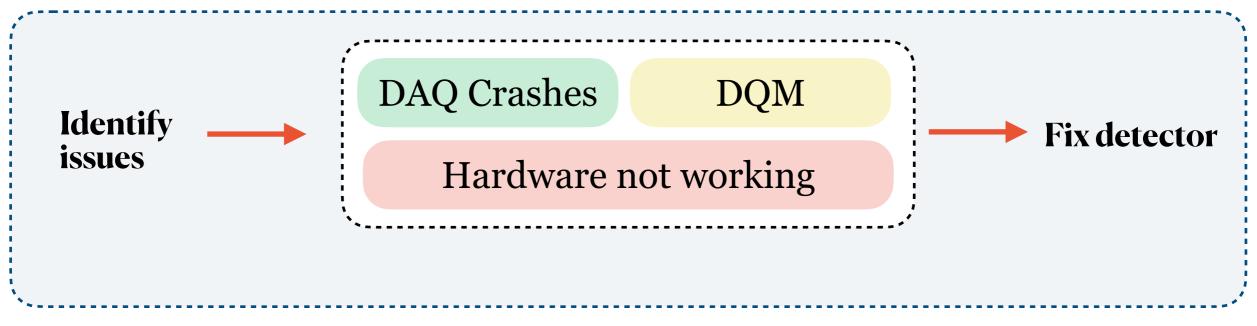
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Mx2 Operation meeting @ 11 AM CDT

• Keep track of regular operations to monitor the detector and ongoing software development work.

Core Monitoring Operations: Who is working on this? **Jack, Jeanie & Howard.**



Hardware:

- 2 bad VME crates at Lab F:
 - has a bad power supply
 - IRQ*(interrupt request) is bad: maybe one of the slots is damaged or "a bent pin." Get them repaired.

* IRQ is a special line when CRIM sends a message to start to take data



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Status of DAQ updates: Who is working on this? **Akeem.**

- Event Transfer Updated: v9.0 \rightarrow 16.5 (Complete)
 - Some significant functional and structural changes
 - In particular signalling between ET and our DAQManager needs an overhaul
- CAENVME libraries updated: v2.7 \rightarrow 3.4.4 (Complete)
- Run control scripts (mostly) updated to Python3 (In progress)
 - RunControl GUI written in wxPython Classic, python3 has wxPython phoenix
 - Big headache to convert over
- Updating MetaData produced to be compliant with DUNE standards (In progress)



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Status of DAQ updates:

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- Run DAQ on AlmaLinux9 at LabF:
 - -acd-mnvo3 is in place at LabF
 - OS installation on mnv03 complete
 - setup of data disks 20TB raid 10 is done
 - Auto start of a2818 driver rebuild driver on AL9?
- Proposal to Incorporate 2x2 DAQs in Minerva run control:
 - start and stop three DAQs with the same information (there was discussion in Slack channel #minerva-for-2x2)



Next steps/Working on...

• Update run control to use host principals.

- Minerva run control uses kerberos to manage processes on multiple servers
- Kerberos special (host) principals are used instead of personal kerberos principals
- Need to run DQM on acd-srv04. (maybe Jack or Renzo will try this)

For details: DUNE-doc-29724 (Geoff's talk)

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