

The MINERvA Operations Report

All Experimenters Meeting

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Computers



- We have installed a new DAQ computer.
 - Purpose is to increase online disk space from 1 Tb to 11-15 Tb & have just the DAQ computer set up the two LI boxes.
 - Right now the 2 original DAQ computers set up the LI boxes. The new computer will require 2 serial ports to set up the LI boxes. The original DAQ computers had 1 serial port.
 - Can store ~ 5-6 months of raw data.
 - 2 more computers are being set up as DAQ computers.
 - To install one in hall as a spare in the next couple of weeks.
 - To install other in Lab F for the PMT test stand.
- 5 “DAQ style computers” have arrived at D0.
 - 2 of these will be clones of mnvonlinelogger (logger), the nearline control machine. One will replace logger, & the other will be a spare for logger. Install this month.
 - 2 of these computers will become additional DAQ spares.



Installing Firmware



- We have installed V95 FEB firmware in the detector
 - Increases the number of hits a TriP chip can store from 8 to 20.
 - V95 was used in test beam and is extensively tested.
- We started by replacing the CROC-E board which gave header problems. This caused the offline unpacking to give up on a subrun when it encountered this error.
 - We have not seen the problem since.
- We downloaded the updated version of the CROC-E firmware that went with v95. This version was tested in the test beam. The update went well.
 - The DAQ ran well for 4 days



Firmware Update



- Next, downloaded FEB firmware v95 in the main detector. The download went well.
 - Required new configuration file & offline unpacking changes. Both tested at the test beam.
 - Running ped & LI continuously. the DAQ has not stopped.
 - The data for VME crate 1 looks OK.
 - The data for crate 2 does not look OK. We are investigating.
 - Testbeam has only 1 crate so this problem not seen in testbeam
- V96 – separate storing of hits for each TriP chip on a FEB.
 - Still under development.
- Thank
 - Geoff Savage, Donatella Torretta – Neutrino Division.
 - Cristian Gingu – EED.
 - Experimental Computing Division, SLAM Group.