HCAL Status

Detectors, DAQ, and Auxiliaries

HCAL Detector Status

- Detector position has been surveyed
- HCAL hardware has been verified
- All phototubes and readout electronics are working as intended
- Full voltage has been applied to the detector and ADCs have been tested for stability
- Detector system has been programmed and read out correctly through a local DAQ system using

HCAL Detector (cont)

- System is setup and running under MiPP-DAQ trigger
- Readout software has been written and is ready for inclusion in the MiPP-DAQ system
- We require time to test and certify the Readout software once it is integrated in the DAQ

HCAL Commsioning

- Muon counter timing
  - Need muons, DAQ
- Phototube balancing
  - Need muons, DAQ
- ADC gate timing
  - Need DAQ
- Phototube timing
  - Need DAQ

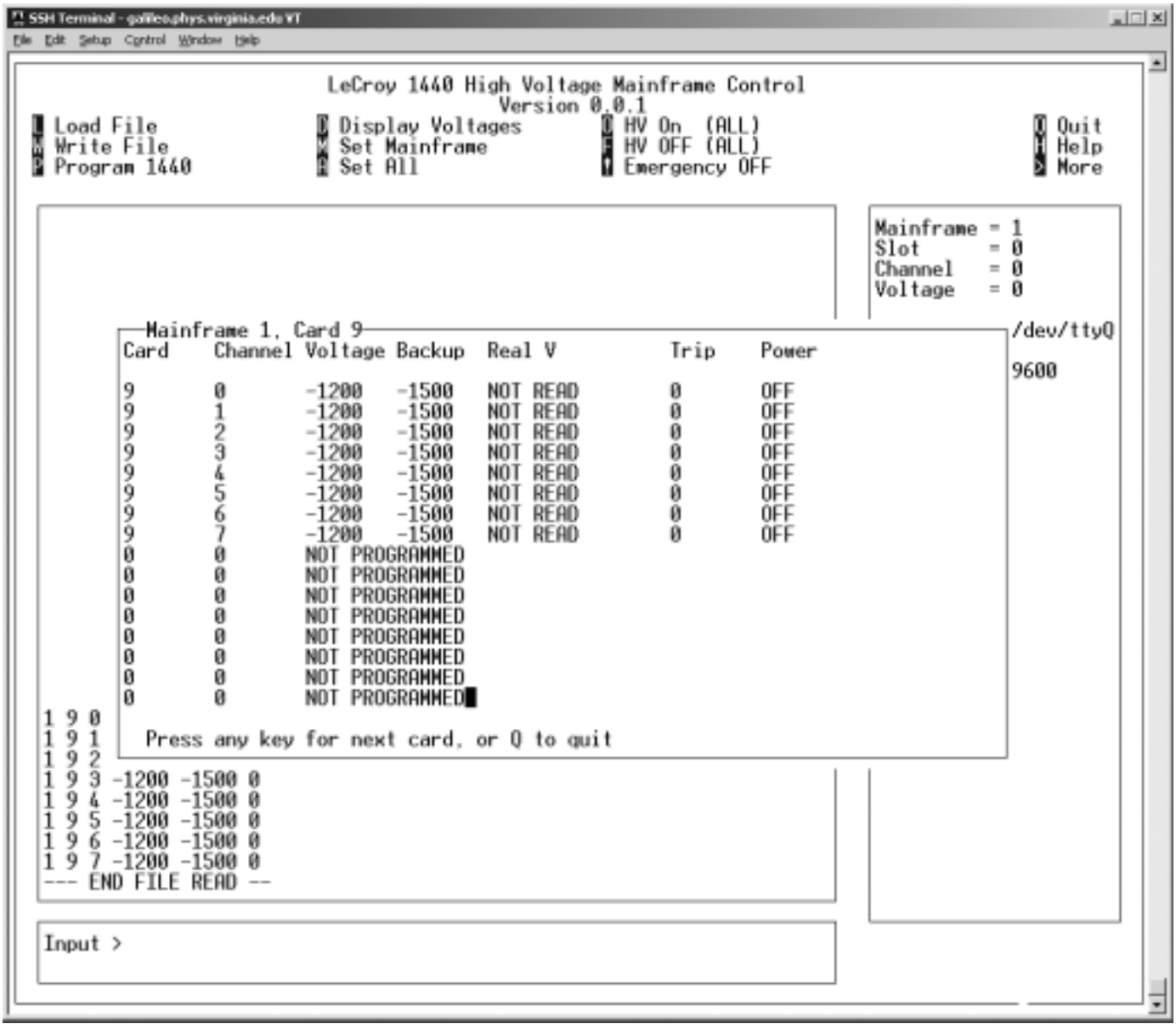
HCAL Commissioning

Task	Time
μ Counter Timing	1 Shift
Phototube Balancing	1 Shift
Gate Timing	1 Shift
Phototube Timing	1 Shift

High Voltage

- Control code for the Lecroy 1440 mainframes has been developed
- Design of the control system was intended to:
  - Provide easy configuration of detectors
  - Provide remote terminal access
  - Provide relatively quick programming of HV values
  - Prevent accidental reset or over voltage of detectors
- Documentation is available

hv_control


SSH Terminal - galileo.phys.virginia.edu:YT
File Edit Setup Control Window Help
LeCroy 1440 High Voltage Mainframe Control
Version 0.0.1
L Load File
W Write File
P Program 1440
D Display Voltages
S Set Mainframe
A Set All
O HV On (ALL)
F HV OFF (ALL)
E Emergency OFF
Q Quit
H Help
M More
Mainframe = 1
Slot = 0
Channel = 0
Voltage = 0
/dev/ttyQ
9600
Mainframe 1, Card 9
Card Channel Voltage Backup Real V Trip Power
9 0 -1200 -1500 NOT READ 0 OFF
9 1 -1200 -1500 NOT READ 0 OFF
9 2 -1200 -1500 NOT READ 0 OFF
9 3 -1200 -1500 NOT READ 0 OFF
9 4 -1200 -1500 NOT READ 0 OFF
9 5 -1200 -1500 NOT READ 0 OFF
9 6 -1200 -1500 NOT READ 0 OFF
9 7 -1200 -1500 NOT READ 0 OFF
0 0 NOT PROGRAMMED
0 0 NOT PROGRAMMED
0 0 NOT PROGRAMMED
0 0 NOT PROGRAMMED
0 0 NOT PROGRAMMED
0 0 NOT PROGRAMMED
0 0 NOT PROGRAMMED
0 0 NOT PROGRAMMED
Press any key for next card, or Q to quit
1 9 0
1 9 1
1 9 2
1 9 3 -1200 -1500 0
1 9 4 -1200 -1500 0
1 9 5 -1200 -1500 0
1 9 6 -1200 -1500 0
1 9 7 -1200 -1500 0
--- END FILE READ --
Input >