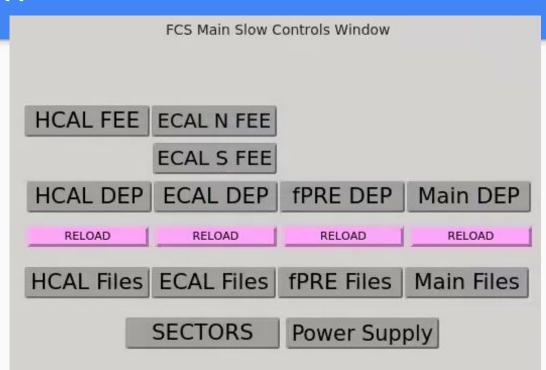
FCS Slow Controls Update - Paul Nord

- Working with Don Isenhower to review display
 - Get Don connected to slow controls computer
 - Review screens
 - Create documentation (following slides are first draft)
- Integrate STAR logs and STAR alarms
 - Need contact
- Verify control of voltage control crate on/off/reset (this week?)
- New Requests

0

FCS Main Window

- FEE Boards
 - HCAL
 - ECAL North
 - ECAL South
- DEP Boards
 - HCAL
 - o ECAL
 - o fPRE
 - Main
- Configuration Files
- Sectors
- Power Supply

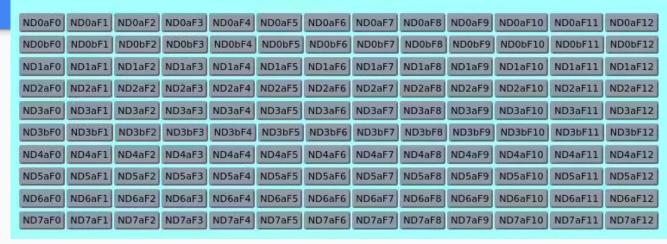


FEE Status

- Table of Boards
 (click for board info)
- Serial Numbers
- Gain
- Slope
- Slow Controls Map

Boards identified by
[NS]D[Board][Branch]F[Fee]
Board = number between 0 and 22
Branch = a, b
Fee = number between 0 and 12

HCAL FEE Boards N 1 wire id N Gain



N vslope

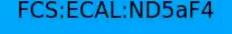
S vslope

N MAP

S MAP

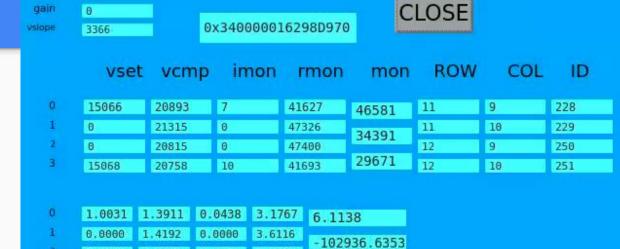
FEE Board Info

- Board Name
- Gain, Slope, Serial Number
- Channel Status (4 channels)
 Raw values, and converted
 - Vset
 - o Vcmp
 - o Imon
 - o Rmon
 - Mon
- Row, Column, ID (physical map)



0.0000 3.6172

1.0032 1.3821 0.0625 3.1817



81.2731

FEE Summary

Table summarizing group of boards

- Serial Number
- Gain
- Slope
- (other?)

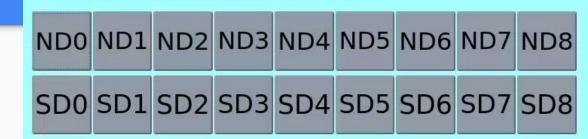
ECAL N Fee Boards - 1wire_id				
0xAE000001628A0170	0x9100000162AC1170	0xE880000162A94670	0xF90000016288	
ND20aF0	ND20aF1	ND20aF2	ND20aF3	
0x35000001629E0A70	0xD200000162B1E970	0x4B00000162A7C370	0x680000016288	
ND0aF0	ND0aF1	ND0aF2	ND0aF3	
0x3100000162A9E170	0x730000016296A570	0x0800000162978570	0x3400000162B0	
ND1aF0	ND1aF1	ND1aF2	ND1aF3	
0x8700000162909270	0x170000016291B770	0xBF000001629DDA70	0x53000001629	
ND22aF0	ECAL N	Cas Dasus	de vele	
0x04000001629F2770	ECAL N	Fee Board	15 - VS10	pe
ND5aF0				
0xB000000162A22370	3366	3366	3366	3366
ND6aF0	ND20aF0	ND20aF1	ND20aF2	ND20aF3
0x0500000162AE3970	3366	3366	3366	3366
	ND0aF0	ND0aF1	ND0aF2	ND0aF3
	3366	3366	3366	3366
	ND1aF0	ND1aF1	ND1aF2	ND1aF3
	3366	3366	3366	3366
	ND22aF0	ND22aF1	ND22aF2	ND22aF3
	3366	3366	3366	3366
	ND5aF0	ND5aF1	ND5aF2	ND5aF3
	3366	3366	3366	3366
	ND6aF0	ND6aF1	ND6aF2	ND6aF3
	3366	3366	3366	3366

DEP Boards

- Table of Boards
 (Click for board info)
- Summary Tables of Information
 - Temperature
 - Rate
 - Sector
 - Serial Number
 - Mask
 - o Time Updated
 - Fee State
 - o Rdo

Boards identified by: [NS]D[Board Number]

HCAL DEP Boards



Temp Rate Sector 1wire_id Mask time fee_state rdo

DEP Board Info

- Board Name
- Alive
- Temperature
- Update Time
- Rts
- Fee_state
- Serial Number, Firmware
- Clock
- Sector
- RDO
- Mask

FCS:HCAL:ND0



alive temp c 40.6 ht rate 5822755.0000 time 81/14/2821, 12:89: rts id fee state PHYSICS 0x00674F76 1wire id firmware clock sector rdo mask

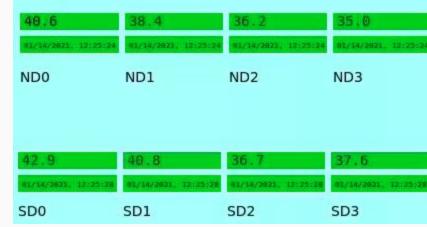
0x00674F76

DEP Board Summary

Table of values for group of Boards

- Value (Temperature, rate, etc)
- Timestamp when last update received

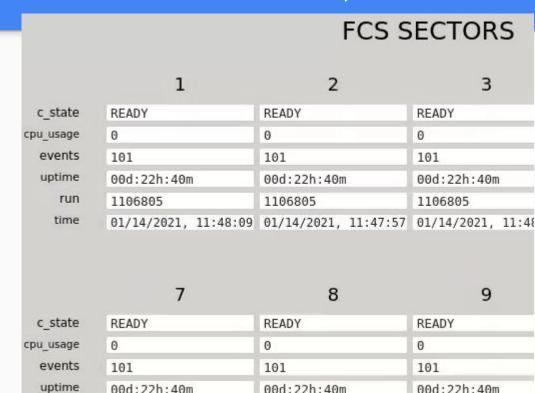
HCAL DEP Boards - temp



SECTORS (computers for DEP Boards)

- Table of Sector Status
 - State of system
 - o CPU Usage
 - Event Rate
 - Uptime
 - Run Number
 - Time status data last updated

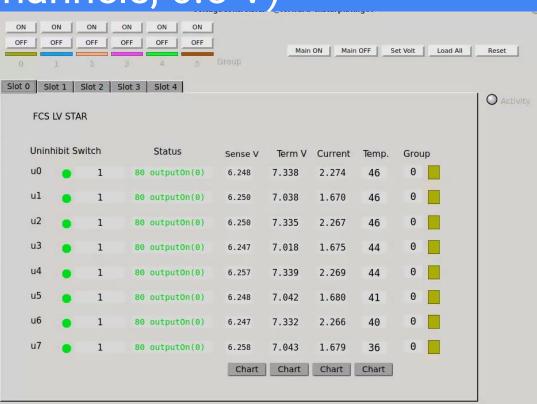
The Sectors send a status update to slow controls every 30 seconds.



Voltage Control (Wiener Crate, 40 channels, 6.5 V)

- Control
 - \circ ON
 - o OFF
 - Reset Trips
 - (Set Voltage) DISABLED
- Slots (5), Voltage Outputs (8)
 - On/Off Indicator
 - Status Text
 - Voltages
 - Current
 - Temperature
 - Chart buttons open stripcharts

Status updates every 5 seconds.
Activity light blinks when status updates.



Voltage, Current, Temperature Strip Charts

Chart buttons on the Voltage Control will open a display of voltage, current, or temperature.

8 channels are split into two 4-channel displays.

Horizontal axis is 60 minutes.

