

# Update on High Voltage Maintenance

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# High Voltage -- LeCroy System

LeCroy 1458 HV



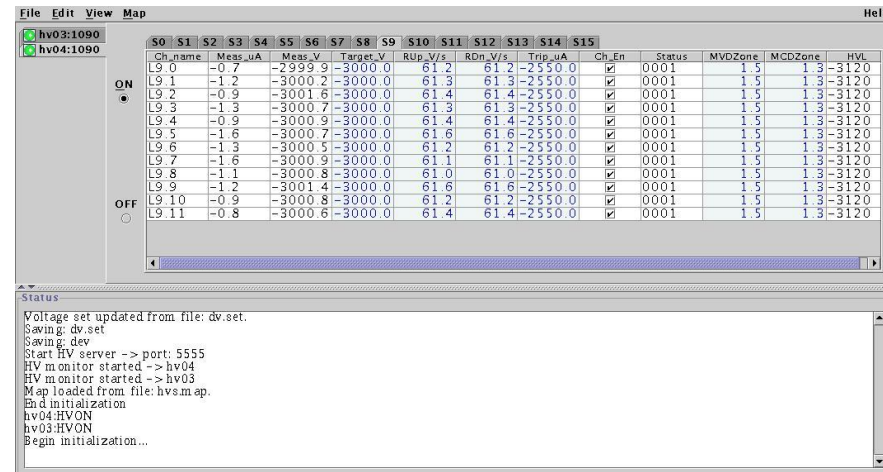
motherboard emulator  
Perl script  
(Brad Sawatzky)

new serial card replaces old  
motherboards (Javier & Jack)

external 24V supply



Java GUI  
(Roman Pomatsalyuk)



Ch_name	Mess_uA	Mess_V	Target_V	RUp_V/s	RDown_V/s	Trip_uA	Ch_En	Status	MVDZone	MCDZone	HVL
L9_0	-0.7	-2939.9	-3000.0	61.2	61.2	-2550.0	<input checked="" type="checkbox"/>	0001	1.5	1.3	-3120
L9_1	-1.2	-3000.2	-3000.0	61.3	61.3	-2550.0	<input checked="" type="checkbox"/>	0001	1.5	1.3	-3120
L9_2	-0.9	-3001.6	-3000.0	61.4	61.4	-2550.0	<input checked="" type="checkbox"/>	0001	1.5	1.3	-3120
L9_3	-1.3	-3000.7	-3000.0	61.3	61.3	-2550.0	<input checked="" type="checkbox"/>	0001	1.5	1.3	-3120
L9_4	-0.9	-3000.9	-3000.0	61.4	61.4	-2550.0	<input checked="" type="checkbox"/>	0001	1.5	1.3	-3120
L9_5	-1.6	-3000.7	-3000.0	61.6	61.6	-2550.0	<input checked="" type="checkbox"/>	0001	1.5	1.3	-3120
L9_6	-1.3	-3000.5	-3000.0	61.2	61.2	-2550.0	<input checked="" type="checkbox"/>	0001	1.5	1.3	-3120
L9_7	-1.6	-3000.9	-3000.0	61.1	61.1	-2550.0	<input checked="" type="checkbox"/>	0001	1.5	1.3	-3120
L9_8	-1.1	-3000.8	-3000.0	61.0	61.0	-2550.0	<input checked="" type="checkbox"/>	0001	1.5	1.3	-3120
L9_9	-1.2	-3001.4	-3000.0	61.6	61.6	-2550.0	<input checked="" type="checkbox"/>	0001	1.5	1.3	-3120
L9_10	-0.9	-3000.8	-3000.0	61.2	61.2	-2550.0	<input checked="" type="checkbox"/>	0001	1.5	1.3	-3120
L9_11	-0.8	-3000.6	-3000.0	61.4	61.4	-2550.0	<input checked="" type="checkbox"/>	0001	1.5	1.3	-3120

Status

```
Voltage set updated from file: dv.set.  
Saving: dv.set  
Saving: dev  
Start HV server -> port: 5555  
HV monitor started -> hv04  
HV monitor started -> hv03  
Map loaded from file: hvsm.map.  
End initialization  
hv04:HVON  
hv03:HVON  
Begin initialization...
```

# Refurbishing the LeCroy

LeCroy 1458 HV



external 24V supply  
(need to shield from radiation)

new serial card replaces old  
motherboards

Jack & Chuck have refurbished 2 crates.  
We've tested them.



# High Voltage Maintenance

## Progress

- Jack/Chuck: refurbished 2 crates, have stuff for 1 more (~12 more in queue, \$1500 for each PS)
- Yang Wang (student) -- tested 136 cards
  - 97 good 1461N (negative HV) cards (16 chan).
  - 5 good 1461P (positive HV)
  - 34 bad: Primary reason bad: HV can't be applied.  
Other reasons: bad channels, connectors, etc.  
Some repairs possible at a vendor.

## Plan

- Fix more crates, budget permitting.
- Scrounge (Hall B, MIT ...) *and/or* buy new units (Wiener)