PVSS System for RD51 TestBeam

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NTUA

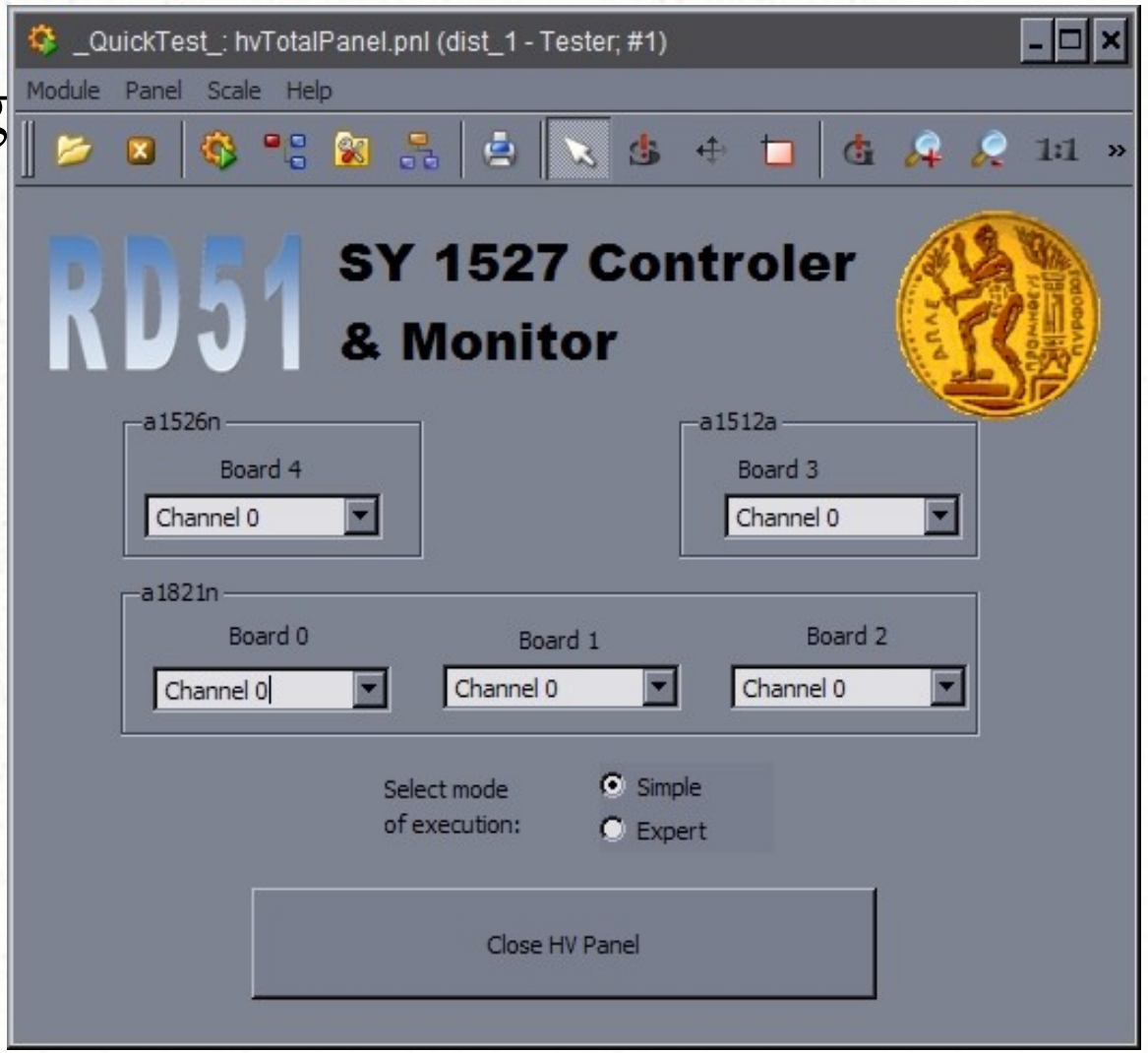
RD51

Concept

- Crate (SY-1527)
  - a1821n (3x12 channels)
  - a1526n (1x6 channels)
  - a1513a (1x6 channels)
- PVSS Platform & JCOP Framework
  - Monitor, parameterize, archiving, plotting iMon/ vMon, alert handling.

Main Window

- Channel choosing
- Mode of use.
- Terminate the application.



Simple Mode

- Status, name, vMon, iMon.
- Plotting vMon, iMon.
- Close the window.

Expert Mode (i)

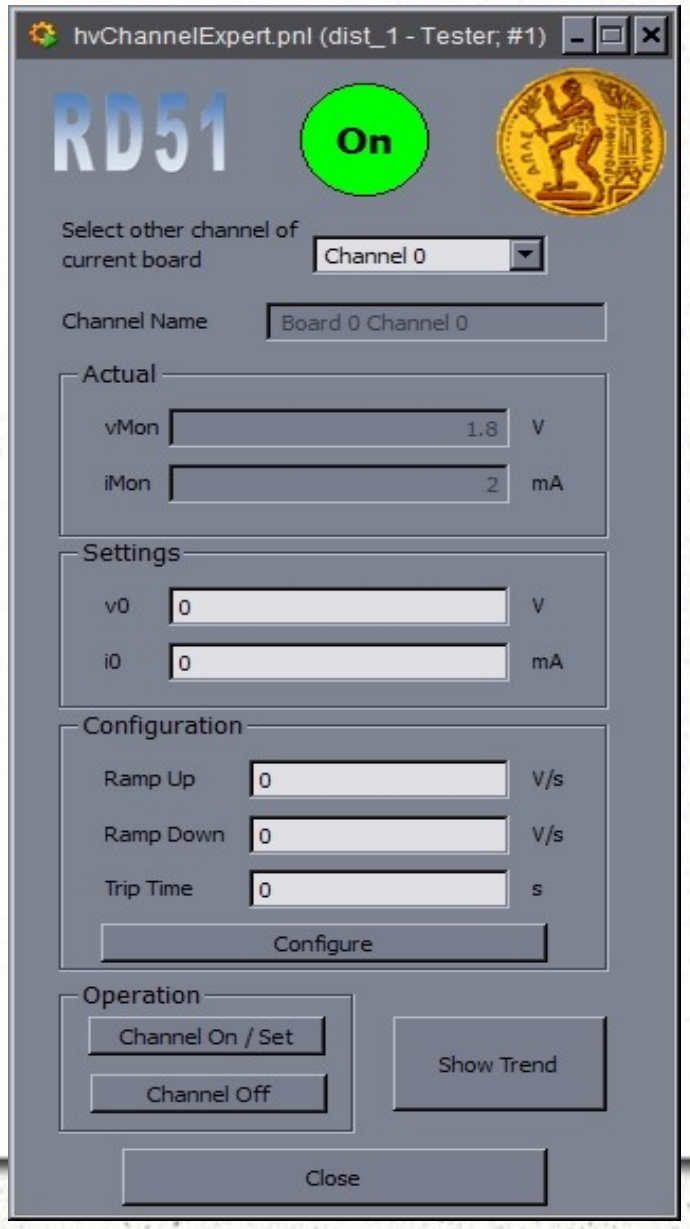
- User name and password required.
- Logfile.

logger - Notepad

File Edit Format View Help

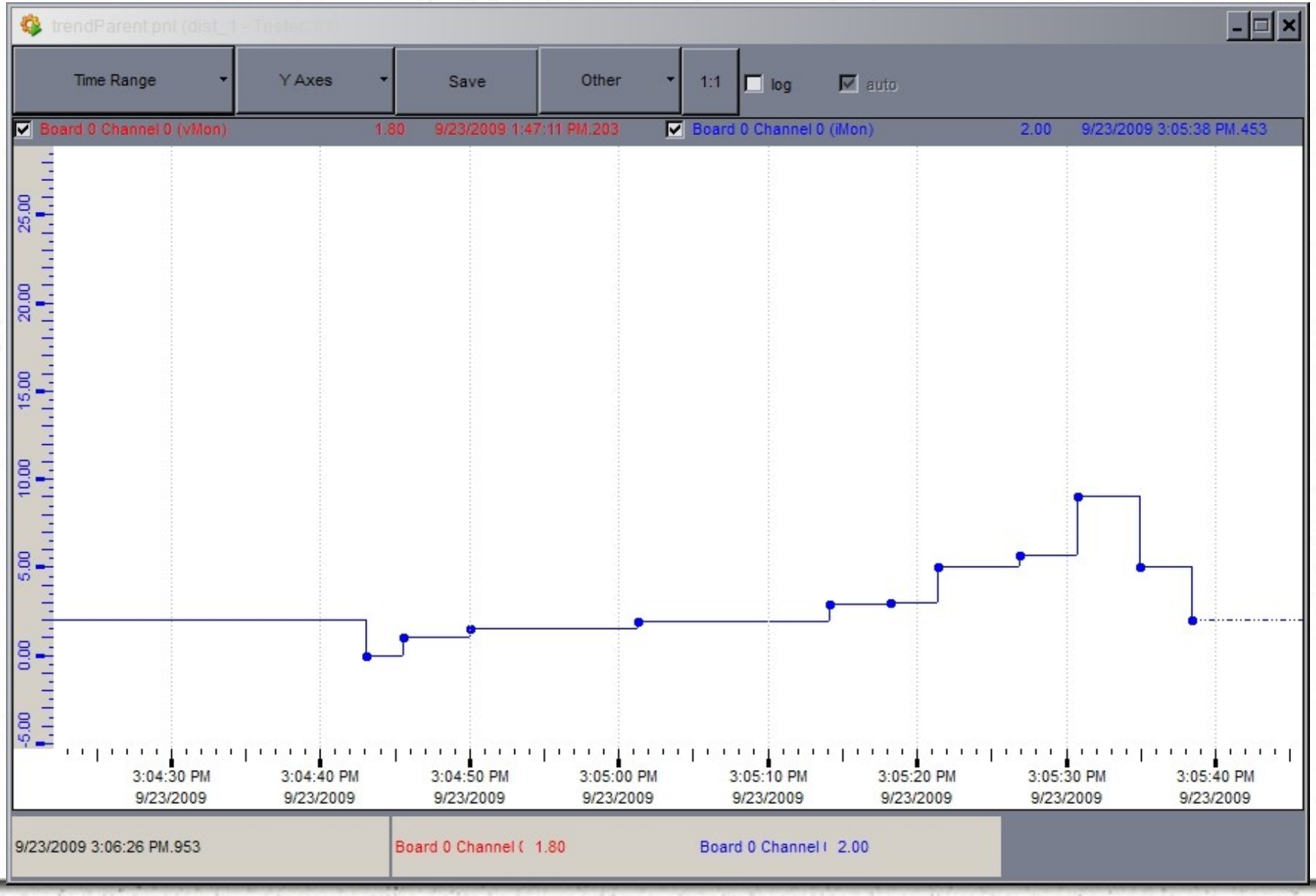
```
23/09/09  14:21          kkarakostas    v0:  670    i0:   3  Board 0 Channel 2
23/09/09  14:22          kkarakostas   rUp:  40   rDwn:  60   tripTime:  2   Board 0 Channel 1
23/09/09  14:22          kkarakostas    v0: 0        Board 0 Channel 1
23/09/09  14:23          kkarakostas   rUp:  50   rDwn:  100   tripTime:  5   Board 0 Channel 5
23/09/09  14:23          kkarakostas    v0:  1000    i0:   5  Board 0 Channel 5
23/09/09  14:23          kkarakostas    v0:  2000    i0:   9  Board 3 Channel 0
23/09/09  14:24          kkarakostas    v0:  2450    i0:   12  Board 3 Channel 1
23/09/09  14:24          kkarakostas   rUp:  100   rDwn:  200   tripTime:  15   Board 3 Channel 3
23/09/09  14:24          kkarakostas    v0:  1450    i0:   10  Board 3 Channel 3
23/09/09  14:24          kkarakostas    v0: 0        Board 3 Channel 3
23/09/09  14:25          kkarakostas    v0:  450    i0:   1  Board 3 Channel 5
23/09/09  14:25          kkarakostas    v0:  340    i0:   1  Board 2 Channel 1
23/09/09  14:26          kkarakostas   rUp:  10   rDwn:  20   tripTime:  12   Board 2 Channel 4
23/09/09  14:27          kkarakostas    v0:  670    i0:   3  Board 1 Channel 2
23/09/09  14:31          kkarakostas    v0:  670    i0:   3  Board 5 Channel 2
23/09/09  15:00          sdsd    v0:  0    i0:   0  Board 0 Channel 0
23/09/09  15:00          sdsd    v0: 0        Board 0 Channel 0
23/09/09  15:00          sdsd    v0:  0    i0:   0  Board 0 Channel 0
23/09/09  15:00          sdsd   rUp:  0   rDwn:  0   tripTime:  0   Board 0 Channel 0
23/09/09  15:00          sdsd   rUp:  0   rDwn:  0   tripTime:  0   Board 0 Channel 0
```

Expert Mode (ii)



- Status, channel, Actual, Settings, Configuration.
- Turn On/Off, Plotting iMon/vMon.
- Select different channel from board.
- Close window.

Plot


Time Range
Y Axes
Save
Other
1:1
log
auto
Board 0 Channel 0 (vMon) 1.80 9/23/2009 1:47:11 PM.203
Board 0 Channel 0 (iMon) 2.00 9/23/2009 3:05:38 PM.453
25.00
20.00
15.00
10.00
5.00
0.00
-5.00
3:04:30 PM 9/23/2009
3:04:40 PM 9/23/2009
3:04:50 PM 9/23/2009
3:05:00 PM 9/23/2009
3:05:10 PM 9/23/2009
3:05:20 PM 9/23/2009
3:05:30 PM 9/23/2009
3:05:40 PM 9/23/2009
9/23/2009 3:06:26 PM.953
Board 0 Channel (1.80
Board 0 Channel (2.00

Conclusions

- The Slow-Control application was developed by NTUA and will be ready for the RD51 Test-Beam.
- This is version 0.0 and any suggestions are welcomed.