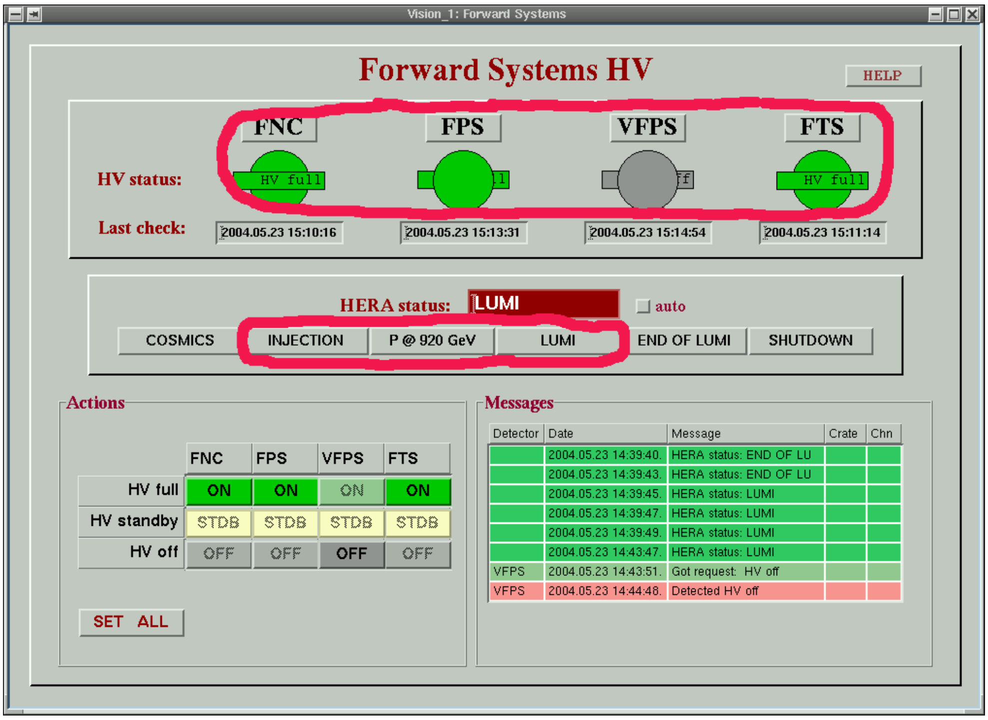
Forward Systems HV Control

(updated 17.10.2005 by V.Dodonov, source in ~vdodo/h1/fwsyshv/fwsyshv.tex)

Forward systems HV control is done in PVSS system and is running on monitor in B15-Left. The main window looks like the following:



Basic operations

The HV status of four forward detectors is displayed at the top of the main window. To operate the HV of detectors in standard lumi operation of H1 use buttons in the middle of the window:

- End of lumi, no beams, beginning of injection – press “INJECTION” – FNC, FPS, VFPS, FTS HV will be put to Standby.
- Protons are ramped to 920 GeV – no action to be done at the moment, FNC HV should remain on Standby.
- Luminosity declared – press “LUMI” – FNC, FPS, VFPS, FTS HV will be switched to Full.

Possible problems

Continued on the next page

If HV doesn't switch to desired status within 5 minutes please try to repeat the action. If there is a red "broken connection" message in message window or connection status field try to press "reset connection" button in corresponding detector specific window. Otherwise try to restart Forward Systems HV PVSS processes:

Killing of PVSS processes

Go to PC in B15L and execute 'kill_fwdhv" command in a shell window. Wait 3 minutes before starting PVSS again. This action will also kill "Forward System" panel in A3top-right.

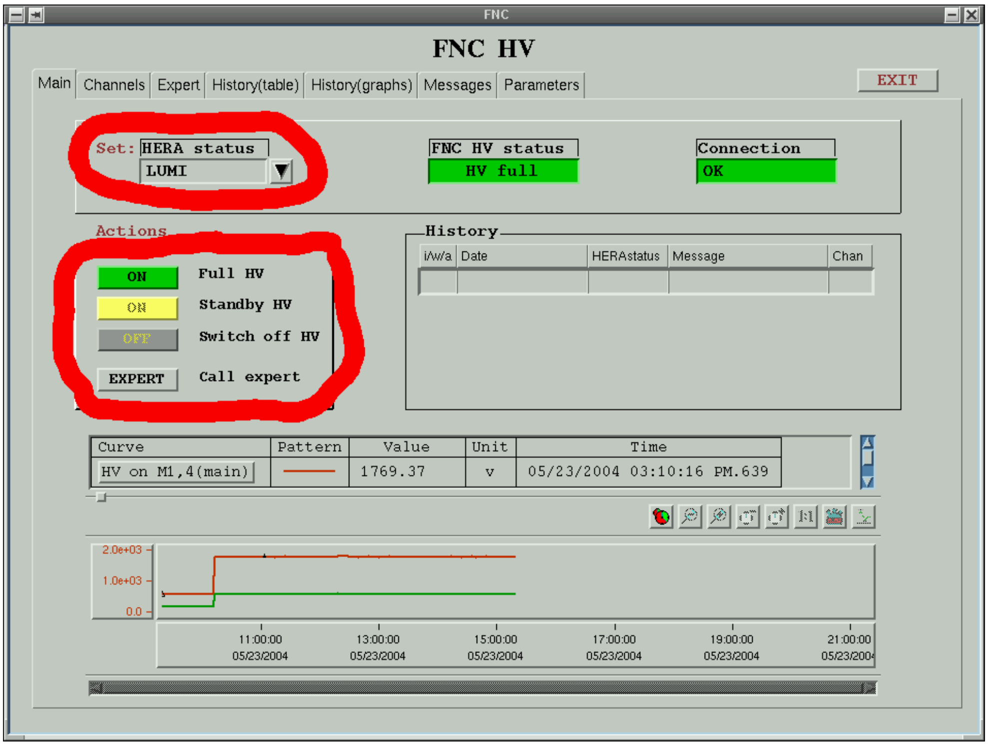
Starting of PVSS processes

Go to PC in B15L and execute "forward_systems_hv" command in a shell window. Then select "forward_systems" row in "Project Administrator" window. Finally click on traffic light button (with green on) at the top bar of the same window.

Go to PC in A3top-right (where VFPS pots are controlled) and click on "FORWARD HV" icon on the desktop. Follow the instruction in new window (enter password), "Forward Systems" panel should reappear.

Individual detector control

If you want to to operate HV of individual detector then click on the corresponding button at the top of the main window. Subwindow like shown below should appear.



To switch HV to Full select "LUMI" in drop-down list under "HERA status" label and then press "ON" to the left of "Full HV" label in "Actions" panel. To switch HV to Standby or Off select "INJECTION" or "STUTDOWN" in "HERA status" and press corresponding button in the "Actions" panel. To repeat an action you can also use buttons in the "Actions" panel of main window.