How To Restart Luminosity 2000 FIC Program

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Starting from September 2003 there is special application ("Wdog2003") running at h1lumi.desy.de MacII board. "Wdog2003" can recognize problems with "luminosity 2000" FIC program, can reload and restart program if it's needed.

If you have permanent problems at H1CDAQ with timeout messages at SSP from *"luminosity 2000"* subbranch – for example:

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"Central Trigger timeout STC luminosity 2000 ( Prepare Run)"
                         or
    "timeout STC luminosity 2000 (Prepare Run)"
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it means (in most cases) the FIC readout program is crashed and h1lumi.desy.de MacII cannot reload and restart it cause MacII itself crashed too.

In this case you should attempt to reboot h1lumi.desy.de MacII .

1. Exclude "Luminosity 2000" subbranch from CDAQ and go to Lumi Racks behind of trailor

- h1lumi.desy.de (former aplumi03) MacII is disposed at middle level of right Lumi rack

- reboot MacII with push button at right side of processor block.

- All needed applications will be started from "StartUp Items" folder. You can see finally "DAQstatus" window of "Wdog2003" application with timestamped messages "Start of Program", "DAQ response timeout , reboot progr.", "Master FIC reboot is successful" and "DAQ response appears alive again"

2.Include "Luminosity 2000" subbranch in the CDAQ

3.Record your activities in the shift logbook

Troubleshooting

Call Lumi On Call expert

Please address any complaints or suggestions about these instructions to:

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H1 Lumi operation

short note of how to use PVSS Lumi control panel

This is a temporary manual because lumi procedure is under development

Main hints: Watch HERA TV monitor to be aware of what is happening
Push all buttons in relevant time
The labels on buttons are selfexplaining when to push them
nevertheless below some short description is given

Injection   Push this button when HERA starts injection of protons

e-Ramping   Push this button when HERA starts to ramp e-beam
Then go to Lumi Mac in room 307 and move Photon Detector
to working position

Lumi Tuning   Positrons are ramped up to final energy - 27.5 GeV.
It will start lumi measurement.

Luminosity Run   Luminosity Run is declared on HERA TV monitor

All HV on   H1 in full operation (CJC2 HV is on..)
Shift leader should inform about it

End of Lumi Run   HERA announced End of Lumi Run,lumi measurements will be stopped.
Move Photon Detector in parking position

In case of unexpectable end of Lumi Run e.g. beam loss etc. you should
push button End of Lumi Run to reset integrated Lumi and to complete
Lumi Run from any step of Lumi procedure.