Running the DAQ

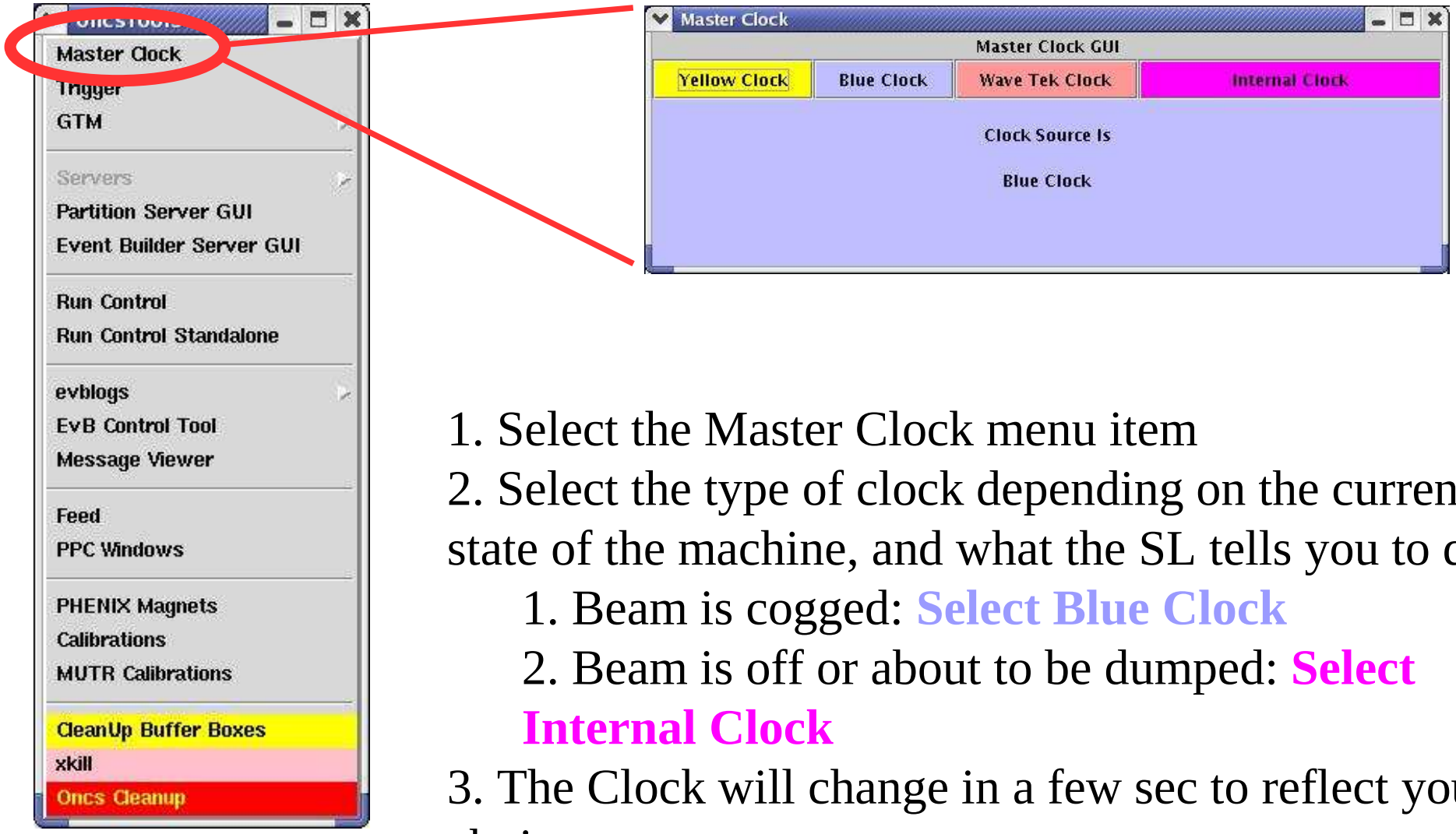
Run 4

D. Winter

ONCS Tools Menu

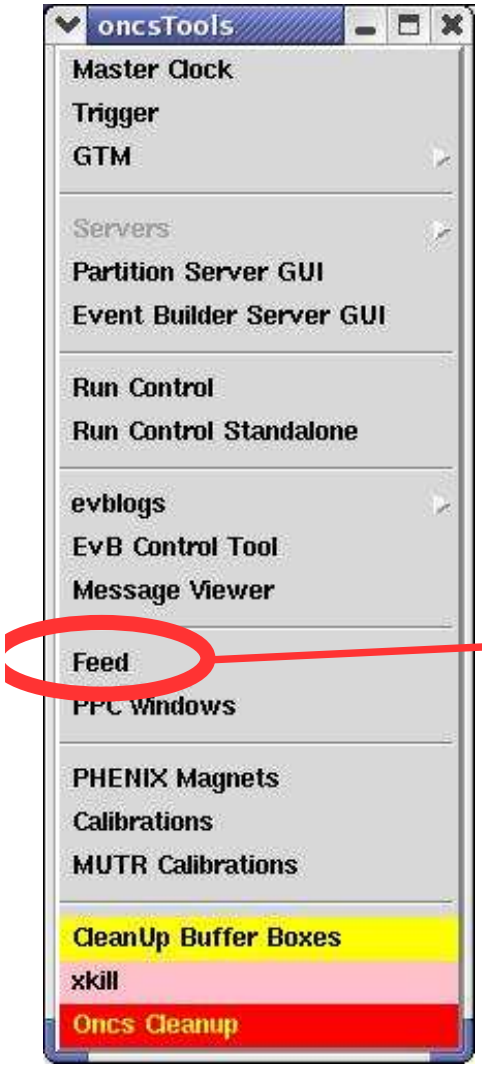
1) Run Control runs on phoncsb, the dual screen workstation
1) Make sure oncsTools.tcl is running; if not, start with the command **oncsTools.tcl.** Do this on phoncsc also.
2) You should see a window like this...
3) From oncsTools.tcl on phoncsc, start the iocondev monitoring windows by selecting PPC Windows.

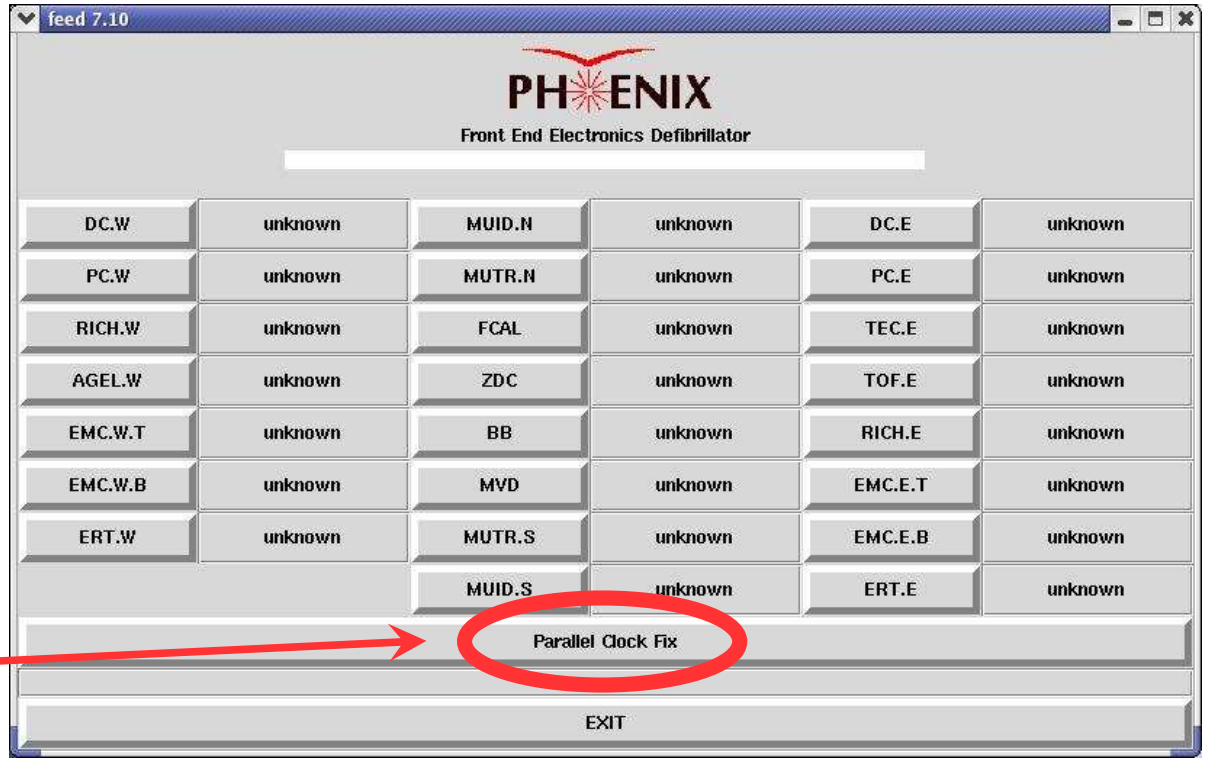
Master Clock



1. Select the Master Clock menu item
2. Select the type of clock depending on the current state of the machine, and what the SL tells you to do:
    1. Beam is cogged: **Select Blue Clock**
    2. Beam is off or about to be dumped: **Select Internal Clock**
3. The Clock will change in a few sec to reflect your choice.

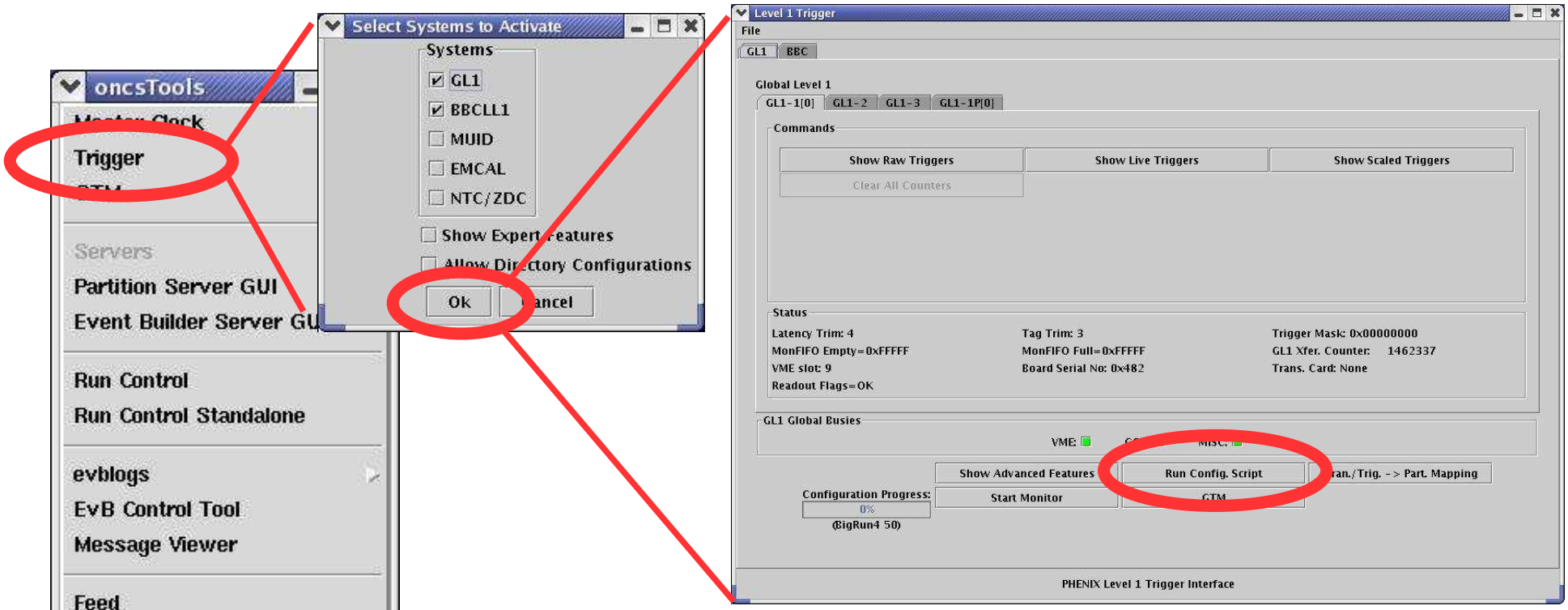
Parallel Clock Fix





1. Used to initialize FEMs so PLLs are in phase in the Glinks
2. When the clock changes, select Parallel Clock Fix
3. If a subsystem fails, check with SL. It may be necessary to initialize its FEMs using the buttons on the Feed GUI.

Global Level 1 (GL1) Trigger Configuration



1.Run the trigger GUI. Select OK in dialog box. Select GL1 Tab. Select Run Config Script

2.In the popup, selection depends on SL's orders:

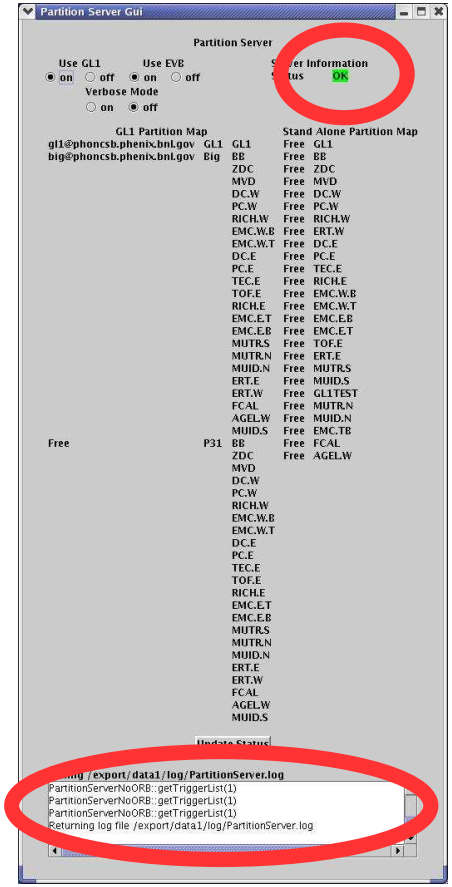
1.Blue Clock: BigRun4 (version determined by SL)

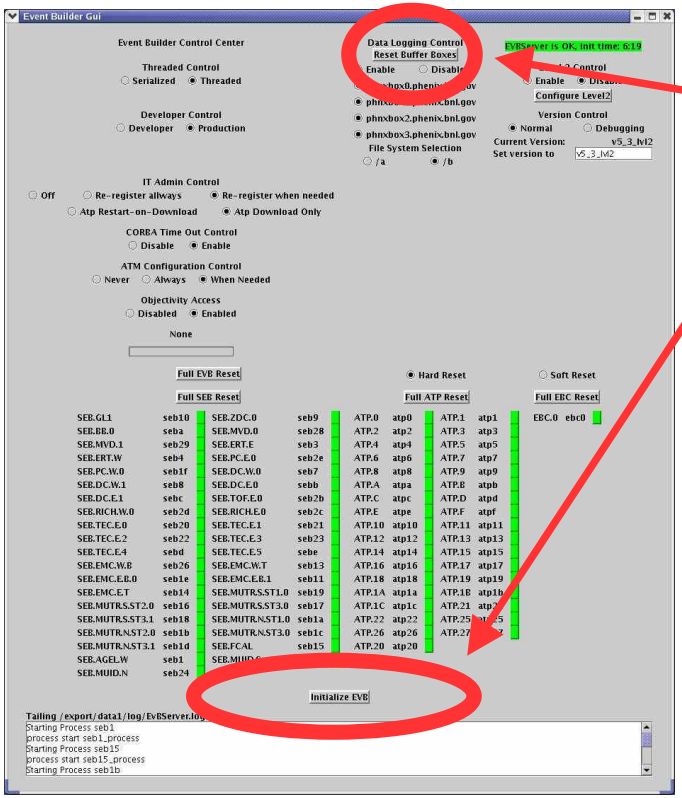
2.Internal Clock: Config determined by SL

3.Click BBC Tab. Run Config Script. Select “PP” (always)

Starting the Servers

- Start the servers with the command **oncsStartServers.csh**
- This will start the PartitionServer, the EVBServer, and GUIs for each of them
- The GUIs by themselves can also be started from the oncsTools menu



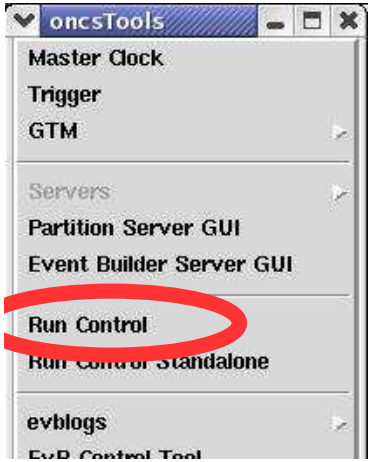


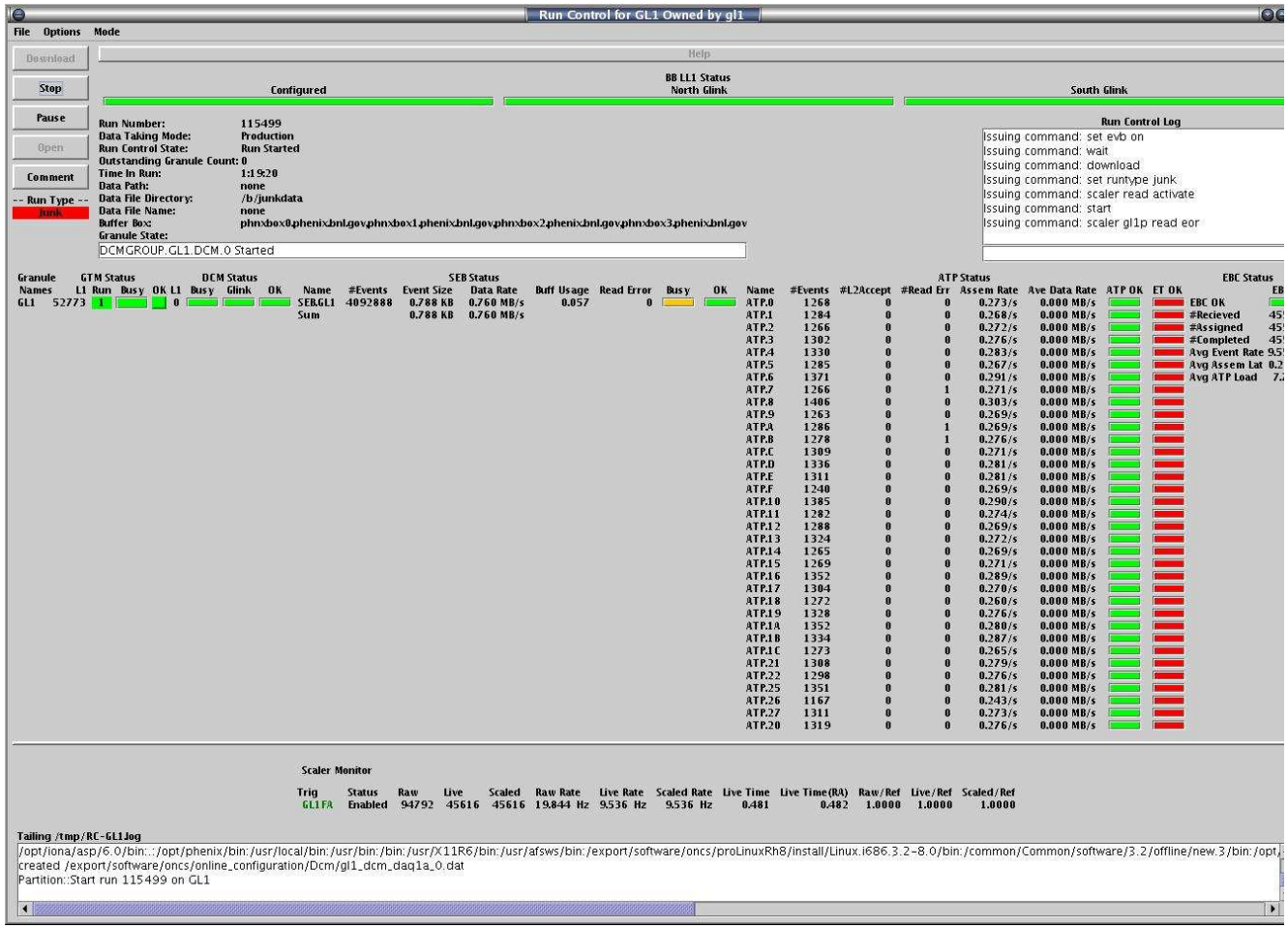
Event Builder:
- Enable BBoxes
- Select all 4
- Choose /a or /b
- Press Initialize EvB

PartitionServer: Make sure EvB is selected. If errors occur, status light will be red and error messages will be in the log box.

Any errors in the EvB? The SEB/ATP/EBC button may turn red if an error occurs. After the run has ended, you can try to reinitialize individual components by clicking on the red button next to the name. If that doesn't work call the DAQ expert.

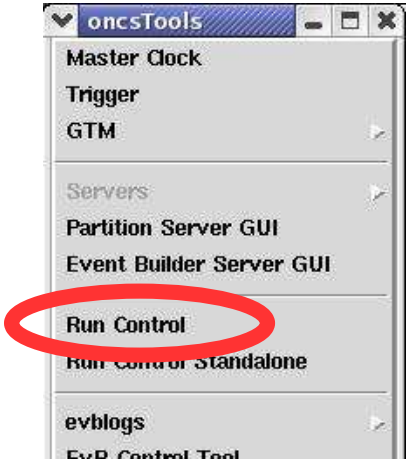
GL1 Run Control

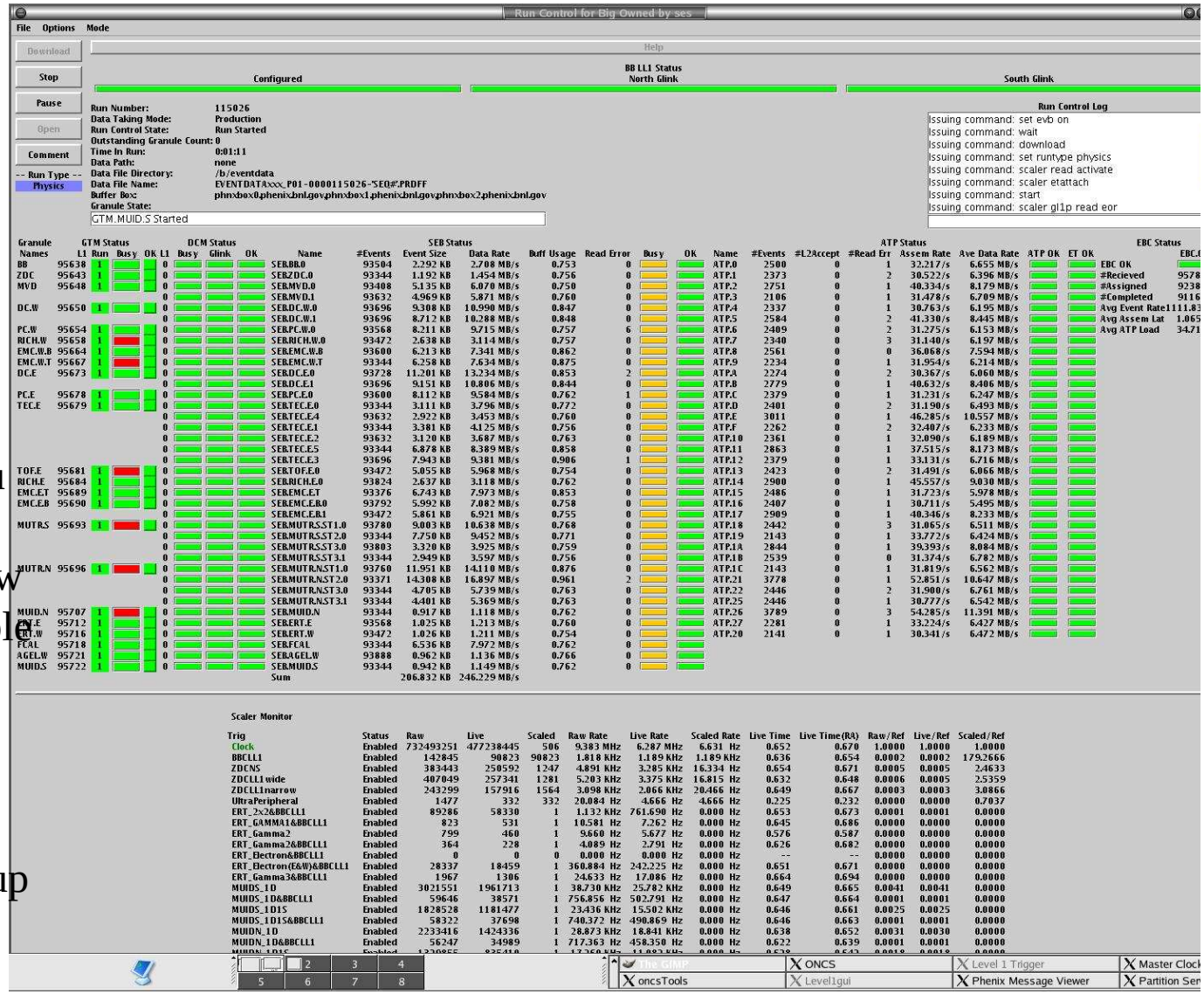




- Select Run Control from menu
- Select GL1 from the popup list
- Type your name at the popup prompt
- In RC, select menu Mode->EvB Enable
- Press Download button
- Press Start
- If everything is running properly, you will see event counters increasing for the SEB, ATP, & EBC

Big Run Control





Select Run Control from oncs menu
Select Big from popup menu
Type in your name in popup window
From Mode menu, select EvB Enable
From Options menu, select Load
Trigger Config (this is done once)
Press Download
Press Start
Select “Physics” data from the popup