

DAQ / Online

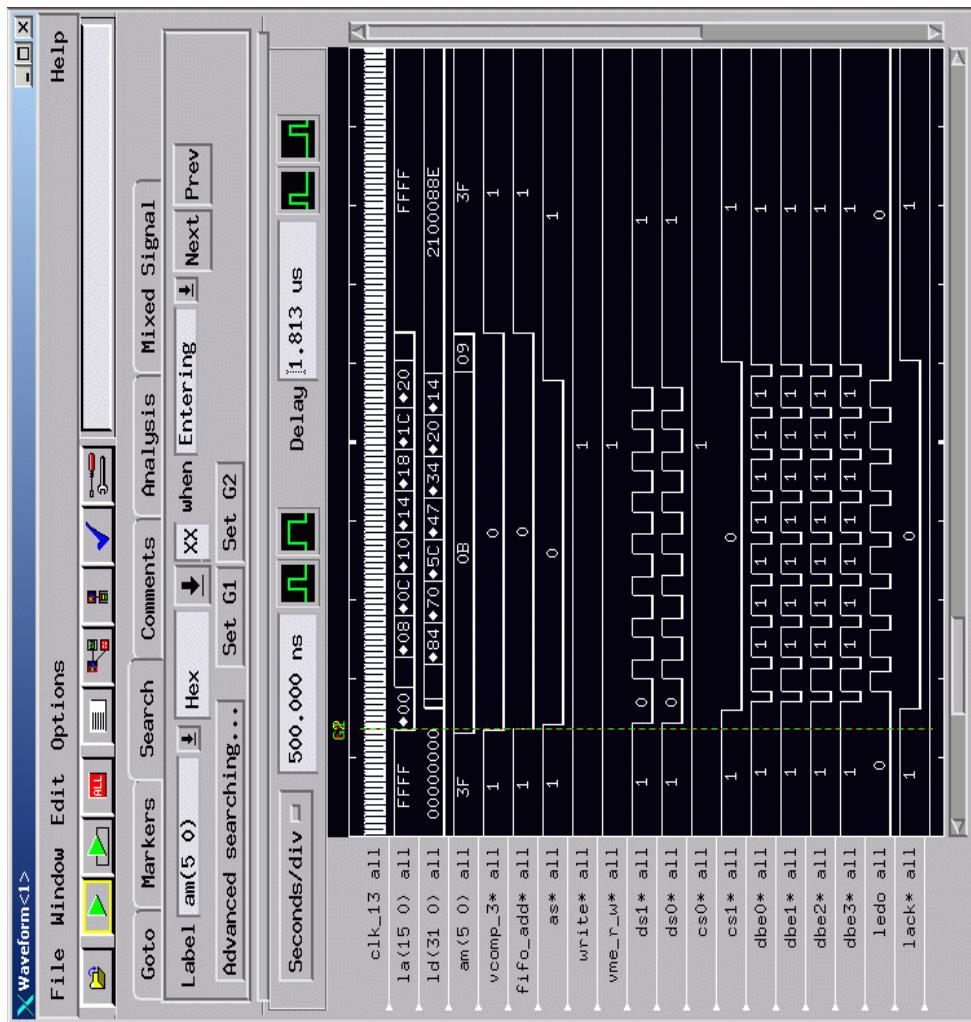
- **Integration shifts daily 5pm -to 9pm; a good time for**
 - Running calibrations
 - Test new DAQ / run control features
 - Take extended cosmic ray runs
 - Special requests (trigger masking, noise scans, ...)
 - Identify rate/bandwidth limitations
 - Improve documentation
- **Very annoying problem of database access from run control solved ("deadlock problem")**
- **Work is ongoing to upgrade the Error handler**
 - Unified format of error messages, better guidance for the Ace
- **Re-introduced "Warmstart" some time ago**
 - Run control has some intelligence built-in when a Coldstart is needed (which takes up to 5-6 min)
 - **Level3 now also supports "Warmstart"** (20 sec!) - very useful
- **TSI**
 - Upgraded firmware allows L2 to be used in any partition
 - Should try to always use error crosspoint
 - Need to understand why run start sometimes fails, need L2 timeout, error reporting from trigger manager

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- TDC's - light at the end of the tunnel

Fixed / Working

- Most bunch counter errors
- DSP/readout conflicts in one specific mode of readout ("Local Done")
- Read/write to event FIFO conflicts ("Early Done" mode)
- Tracer "Spy mode" readout
- Working on
 - Bunch counter problems
 - Occasional TDC hangs
 - New problem: block transfer for "Early Done" mode



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- Event Builder: still see quite frequently **corrupt data** from some crates, especially TDC crates
- Current **rate limitation** about 500Hz
 - Had **problems establishing cosmic trigger** again - traced down do Fred somehow masking off trigger bit 15
- SVT readout problems (Done timeouts) in commissioning run
 - Conflict when two tasks (Readout and SVT monitoring) read/write to VME at the same time
- **Plans**
 - Continue to exercise complete system to find and fix problems
 - Work on establishing Level 2 triggers
 - Test new Level 3 filters
 - Include modified TDC's as they become available, see if low rate problems occur
 - Understand remaining VRB/event builder problems
 - Understand rate limitations
 - ...