

# DAQ / Online Status

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- No major downtimes related to DAQ (but also no new records)
- "Creeping Deadtime" problem: we had to reboot all front-end crates between stores to avoid slowly degrading interrupt response, and bad readout performance
  - This was traced down to a bug in the FISION library: the list of task variables for a task using FISION would keep growing. Saving those on a context switch took longer and longer, leading to bad readout performance
  - Now have a new version of FISION. All front-end processors have been updated on Tuesday and Wednesday
- Observe some number of crate hangs / suspended "Messenger" tasks
  - have not been able to catch this when it happens... people tend to reboot immediately
- Sourcing CHA
  - The code to take source runs of the central calorimeter had not been used since ~18 months, and was no longer functional
  - Have fixed both the front-end and run control code to be able to take central source runs
- Event Builder
  - On Halt-Recover-Run: Scanner-CPU timeout, and recommended EVB cleanup → code changed
  - Will change Ace panel to force ace to explain why the event builder is cleaned up

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Oct 04, 2001

- **Level 3**
  - 64 new PCs (processing nodes) arrived and now being installed. Will be integrated into the farm during the shutdown. Still some rearranging on 3rd floor to be done
  - New version of L3 control code to be installed shortly
  - "Less-than-1%-Reformatter-errors" problem (Silicon): more thinking about symptoms needed
  - Some Level 3 proxy crashes that are not understood
- **Consumer/Server Logger**
  - # of streams: current logger disks are insufficient for 20MB/sec and 8 streams
  - OK for 4 streams (now), or 10-12MB/sec with 8 streams
  - Under study how much more is needed
- **Run Control**
  - Voice alarms will be implemented soon, using the "Festival" package
  - Some spurious error messages in error handler → fixed
  - ACNET server used by run control died twice. Will automate, but not yet since the interface will change in a few days
  - Automated Halt-Recover-Run sequence: there was a problem with duplicate commands sent by run control. Haven't seen this with the latest code
- **There will be a disconnect test of BO around Oct 10, and a test of the test before that**
- Expect some downtime from DB disk upgrade