

DAQ Status

- Two longstanding issues still with us:
 - run **control out-of-memory** errors and other crashes
 - "creeping deadtime" problem: long tails in readout time developing over several days
 - * workaround: reboot crates between stores
 - * this is serious: limits rate to < 100Hz into Level3
- Also have to "clean up event builder" ~ once/day, mostly suspended ATM processes. In the last few days, several times communication problems (ScramNet)
- Occasional loss of (Ethernet) connection between L3 output node and CSL input port, would reduce rate capability
- Additional CSL disks installed
 - now 2.1TB in use, no more r/w locks necessary
 - comfortable: 20MB/sec x 8h ~ 600MB
- Software event builder upgraded to directly output root format
 - all calibration consumers updated to required newer offline code version
 - minor problems still being sorted out
 - robustness is an issue: many failures, lost connections etc.
- DAQ throughput tests (mostly EVB/L3)
 - additional runs needed, also with beam

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- During the Sunday/Monday store, had a single run from Sun 11:30pm until Mon 11 am (beams dumped) → **owl shift bored**, complains about lack of PC for private use
- "**Negative prescales**": a feature in the TriggerDB/API caused negative prescales to be downloaded → fixed
 - inconsistent trigger rates observed by shift crew
- **Run section counter** is now linked to FRED zero-bias trigger (1.7Hz)
 - by default new run section every 50 counts → 30 sec
 - affect run section number when zero-bias rate/prescale is changed
 - use run section counter tied to event number for non-collision data (DAQ tests)
- **Change of Time-of-Flight readout code corrupted endwall readout**
 - unusual occupancy observed in YMON
 - half a day to figure out what's going on
- Some flaky TDCs in muon crates
- Work on **Silicon calibrations** in read-all mode
 - back-pressure from logging limit (20MB/s) into Level3/EVB causes failures in converter nodes for very large events
 - not fully understood, workaround is to limit rate
- New scheme for downloading pedestals into Admems to be installed