Arnd Meyer
Mar 08, 2001

DAQ Integration

- Changed to new root version yesterday (CSL/Level3). Building consumer monitors/calibration consumers + new cdfsoftb0 underway
- Established initial trigger tables for collisions
- Multi-stream running successful
- The new Level3 control is being tested - coldstart 2x faster (~2:20min with complete farm), warmstart 4x
- A bug in the event display ("holes" in cal ADC lego plot) was fixed
- Smartsockets problems fixed by changing configuration
- Boot host for VxWorks nodes changed to b0dau00
- Dynamic prescaling (from the rate monitor) is now possible - useful for commissioning
- Regularly reading out "everything", except Silicon, SVT, and missing electronics (some TDC's, central ShowerMax, XTRP, ...)
- Slow XTRP readout (no block transfer) about to be fixed
- Normally (not L3 pass-through), throughput is limited by readout, when all L3 subfarms are used

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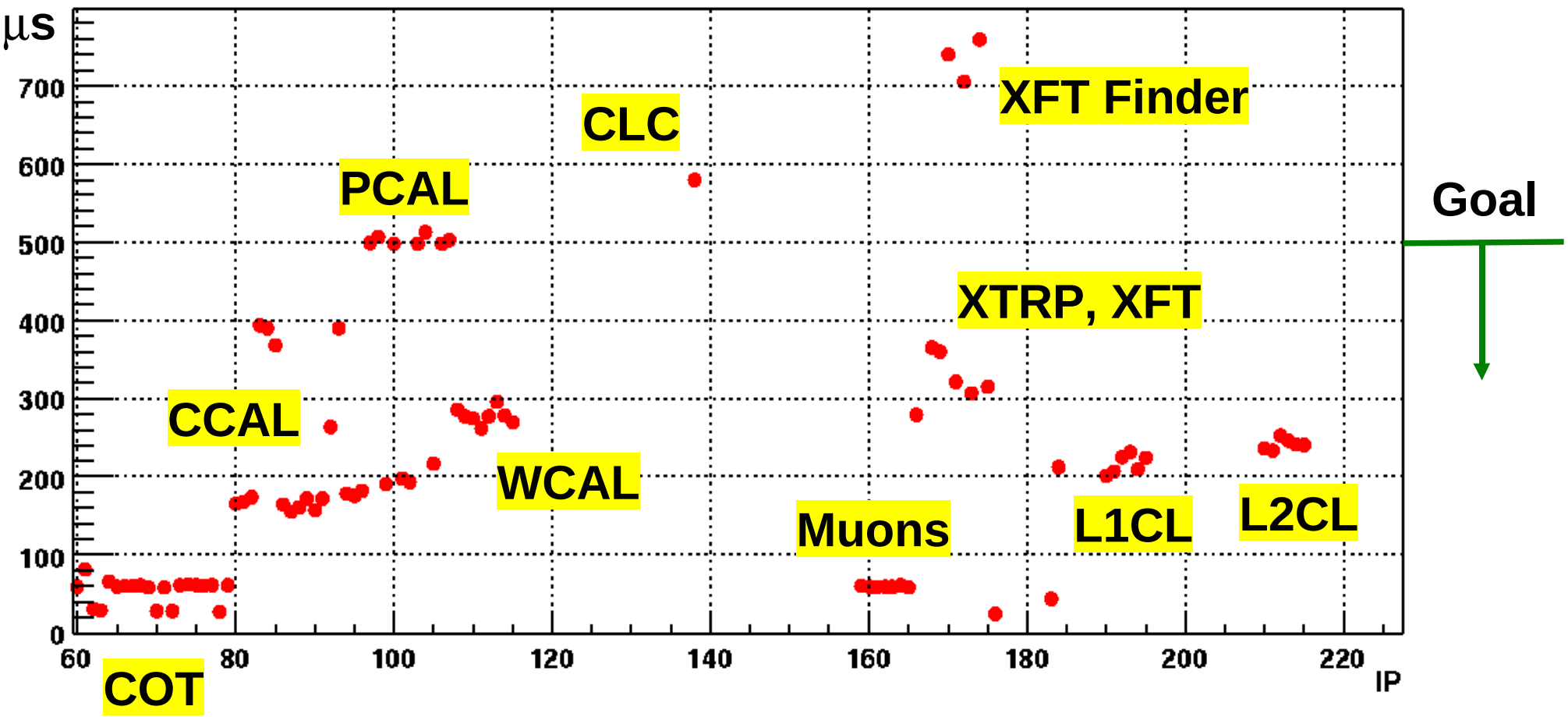
DAQ Performance

- Time needed until the L2 buffer is available again
- TDC's have few hits, will be critical
- XFT is "diagnostic" bank - needs to be faster, or dropped in future
- CLC (BSC) promised data reduction

Run 108598, 162 Hz into L3
6% DT(readout), no Si



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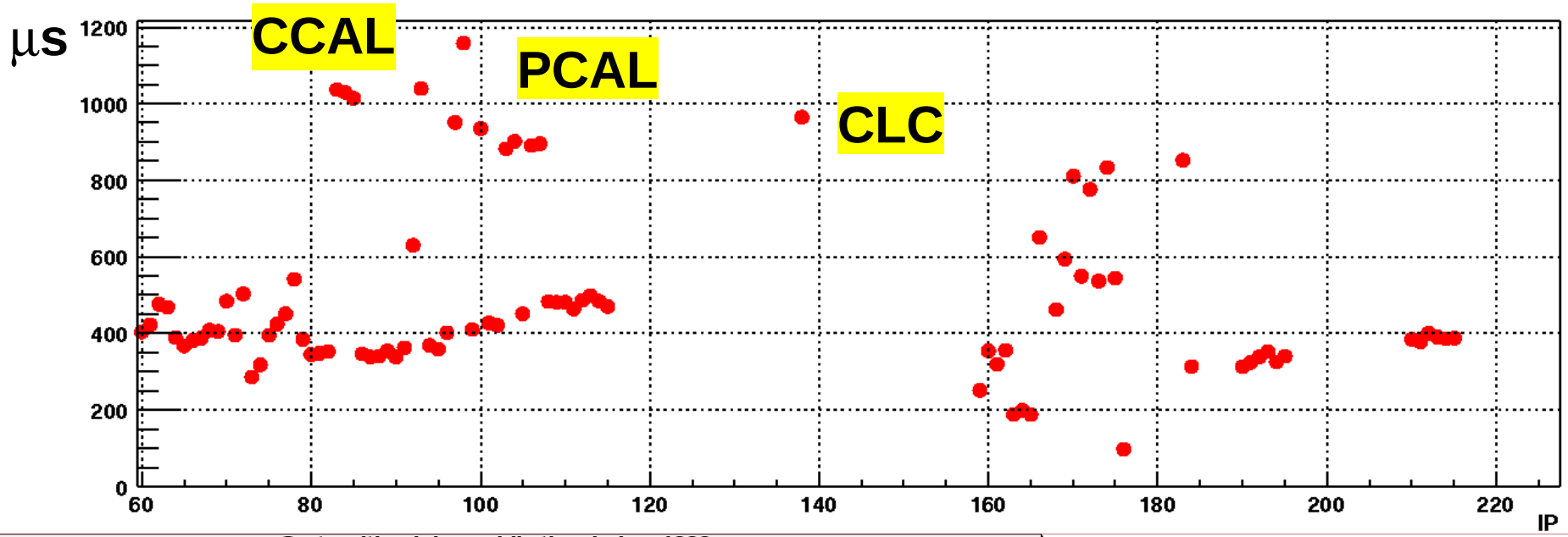
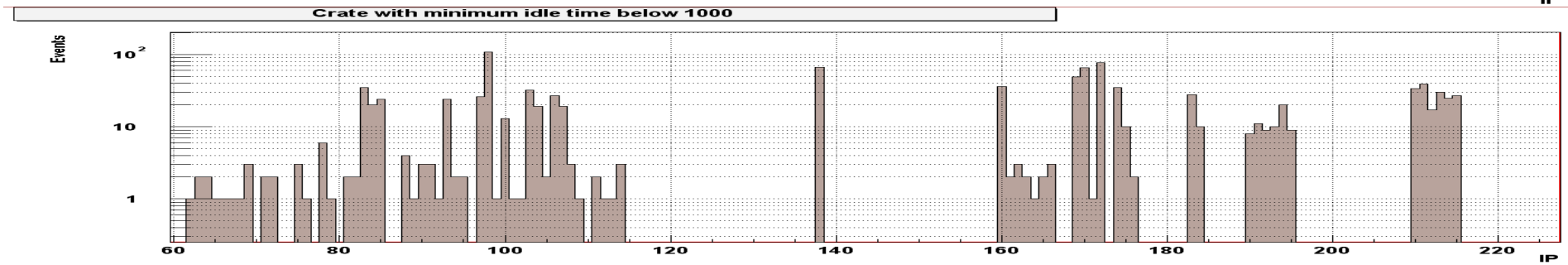
DAQ Performance

- "Total" readout time (bank formatting, zero suppression, ...)





- Very hard to easily gain factors in readout speed ... slow process, (almost) all crates contribute! Most significant probably: CCAL/PCAL/CLC/XFT/XTRP
- ... and TDC's will be interesting - noisy channels, occupancy?!?

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DAQ Integration

- Assorted problems keeping (not only) the shift crew busy
  - Problems with many muon crates (crate infrastructure, newly installed TDC's)
  - ccal08: Tracer was not seated properly, fixed
  - One SMXR board in pcal05 gives errors
  - imu01 is sick since many months (Tracktest failures, BC errors)
  - Bunchcounter errors reported from XTRP and sometimes XFT crates
  - Coldstart failures in XFT crates
  - L2 processor stops
  - Missing (some) ShowerMax banks from central crates
  - Run control error handler hanging, due to changes in CSL messages - fixed
- Slide shows in consumer monitors implemented