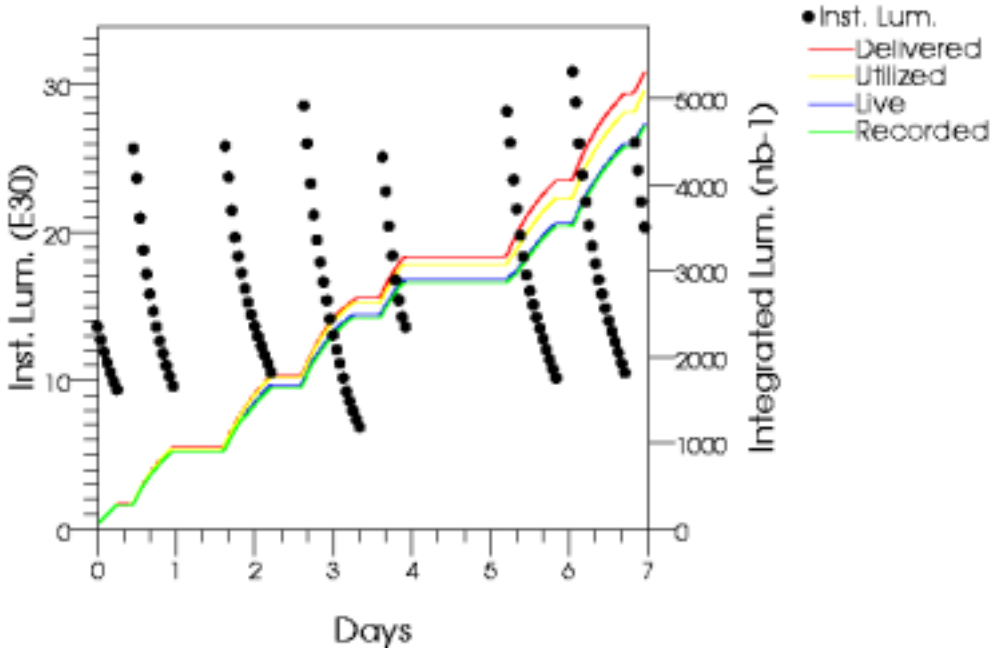
D0 Weekly Summary: June 9th to June 15th

- Delivered Luminosity and operating efficiency
  - Delivered 5.3 pb^{-1}
  - Recorded 4.7 pb^{-1} (88%)
- Mostly smooth data taking
  - Several disparate issues
- Total number of events collected
  - 10.7 mln
- Beam halo
  - No problems
- Beam position
  - Within 1mm from the detector center and stable



Day of the Week

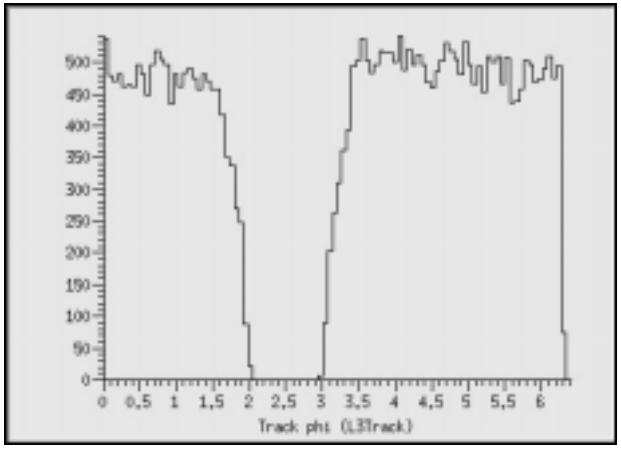
Stu Fuess

Major Issues for Downtime Last Week

- Issues affecting efficiency:
  - Calorimeter download problem prior to, and continuing into Store 2684.
    - High occupancies in one section of calorimeter
    - Originally thought to be pedestal problem, attempted solution of creating and downloading new pedestal set
    - Finally determine to be erroneous configuration script
    - More than 2 hours of beam time lost
  - CTT diagnostic crate readout at start of Store 2686
    - Non-essential crate, eventually taken out of readout
    - A "soft" failure, so repeated attempts to resurrect readout
    - Approximately 30 minutes of beam time

Major Issues for Downtime Last Week

- Data quality problems not accounted for in efficiency
  - Unusual – recorded data is expected to be usable for analysis
  - In Stores 2665 and 2667 there was a power supply problem for 1 stereo supersector and part of 1 axial supersector of the CFT. Result was a hole in acceptance:



Access to repair after Store 2665 incomplete; finally repaired in access after Store 2667. Total data affected ~ .9 pb^{-1}

  - In Store 2686 there were readout problems with a CTT diagnostic crate. The crate was removed from the run, but the shifter mistakenly ignored CTT trigger configuration errors. The tracking trigger was compromised for ~.1 pb^{-1} of data.

Stu Fuess

D0 Summary

- Stably collecting physics data with full detector in readout
  - 88% efficiency, with some data quality loss → ~ 70% effective efficiency
- D0 Collaboration meeting is this week in France
  - Many experts are not around
  - Working under "no changes" policy
- Plan for this week
  - Physics data taking during stack and store operations
- Access requests
  - Repair smoke detector (VESDA) in muon truss
  - Check/repair HV on Muon PDT wires

None urgent – can do parasitically when possible