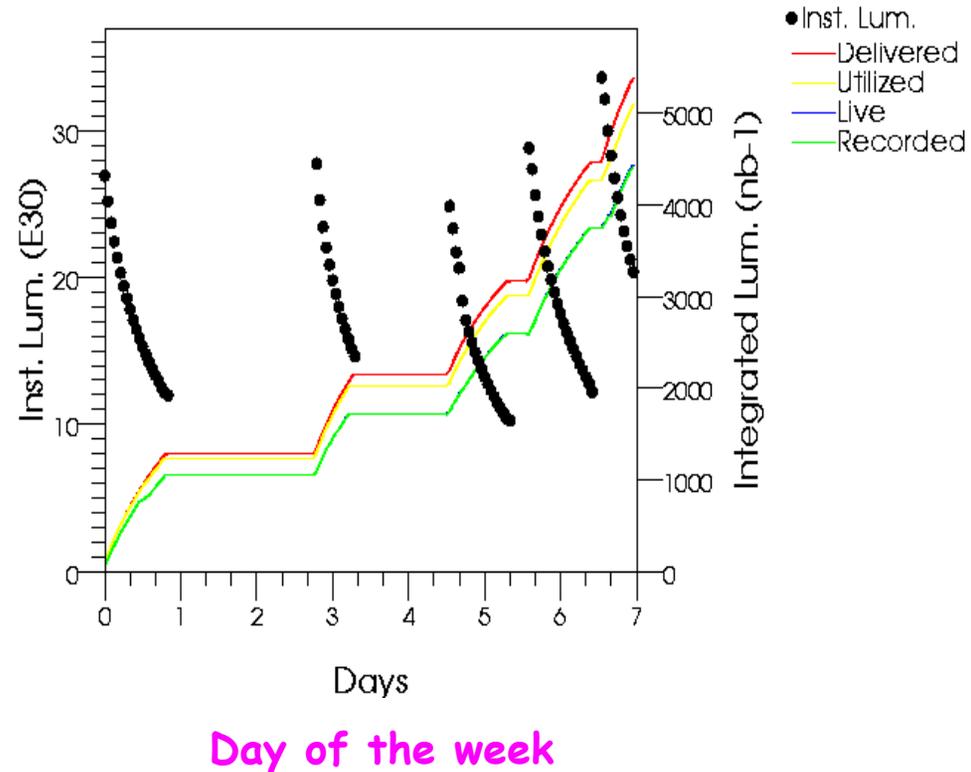
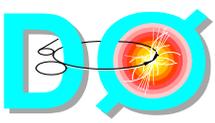


DO Weekly Summary: April 7th to April 13th

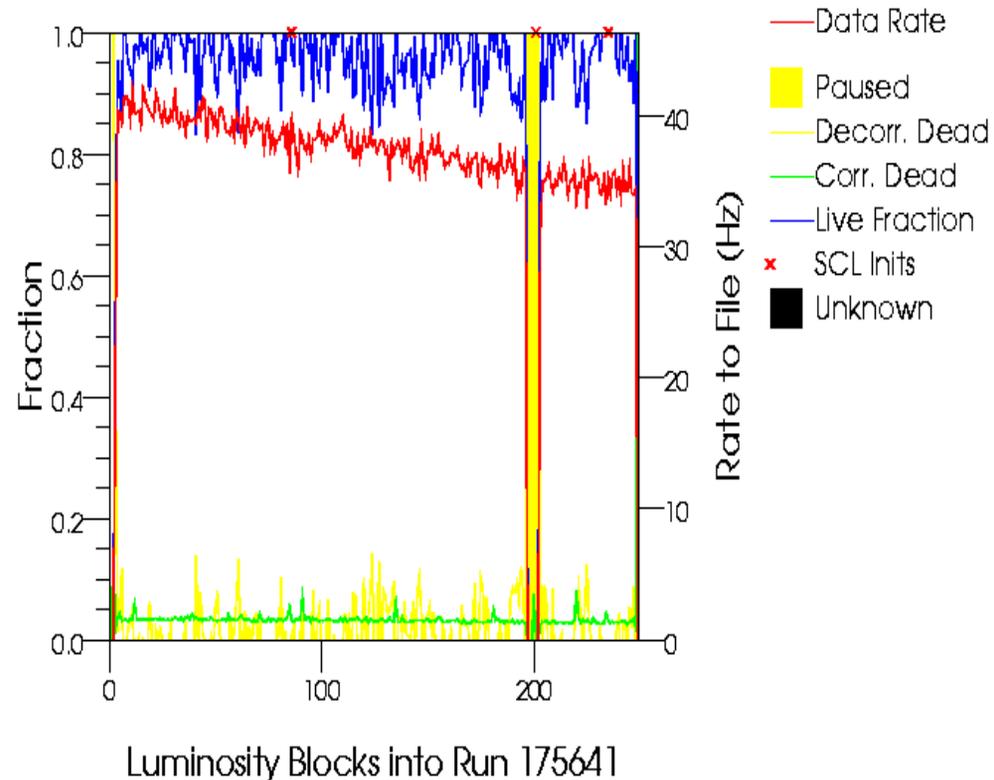
- Delivered Luminosity and operating efficiency
 - ◆ Delivered 5.4pb^{-1}
 - ◆ Recorded 4.4pb^{-1} (82%)
- Number of “hardware/software failures” has been more than during typical week
 - ◆ Down to ~82% efficiency from typical ~85%
- Total number of events collected
 - ◆ 10 mln
 - ◆ All events have been reconstructed on the farms (plus ~8 mln from December data sample)

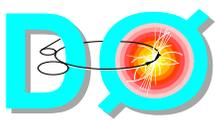




DO Data Collection

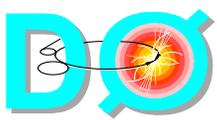
- When all systems are running data collection is very smooth
 - ◆ ~5% front-end busy
 - ◆ Almost no intervention (except monitoring) is required
 - ◆ DAQ system is "self-supporting" resolving minor known issues quickly/automatically
- Major downtime is happening when something fails hard
 - ◆ Power supplies
 - ◆ Cabling connections
 - ◆ Cooling





Last Weeks Problems Analysis

- Last week major downtime issues
 - ◆ Sunday
 - ▲ ~1.5 hours data loss
 - Level 2 rack tripped on low air flow 15 minutes before the store
 - Turned power back ON quickly, but Level 2 alpha "started to die" after power outage hanging every ~15 minutes. After an hour replaced by expert
 - ▲ ~1 hour data loss
 - Level 1 trigger crate lost synchronization
 - Took 45 minutes to page expert, then 10 minutes to resolve the problem
 - ◆ Saturday and Friday: no problems in excess of ~15 minutes
 - ◆ Thursday
 - ▲ ~1.5 hours data loss
 - Forward muon power supply failure at 6:00am (inside collision hall). Problem understood and actions taken within ~10 minutes, but... GUI which suppose to mask trigger inputs from this crate had a bug which masked different crate(!). A lot of confusion with experts coming in and resolving problem 10 minutes before store was lost.
 - ◆ Wednesday: no problems in excess of ~15 minutes
 - ◆ Tuesday: no delivered L, studies
 - ◆ Monday
 - ▲ ~1.0 hours data loss
 - Muon Level 2 trigger failure. Experts were not able to find problem after ~ an hour of hunting (DPF did not help...). Continued data taking without forward muon Level 2. Between stores problem traced to unplugged cable in Level 2 muon system
- Every considerable downtime (more then ~15 minutes) is analyzed by Run Coordinators with sub-detector groups involved and actions to prevent similar problems in the future are developed
 - ◆ If problem is affecting "minor" portion of the detector: continue physics data collection while experts are resolving problem



DO Summary

- Stably collecting physics data with full detector in readout
 - ◆ 82% weekly operating efficiency
- Two one hour collision hall access requests from DO over last week
- Systematic work on resolving problems with stability of data taking is paying off
 - ◆ 8 out of 10 "best" DO runs (duration and efficiency) are collected during March and April 2003
 - ◆ Stably operating in the ~85% operating efficiency range
- Plan for this week
 - ◆ Physics data taking
 - ◆ No access requests (but will use "free" offers)

