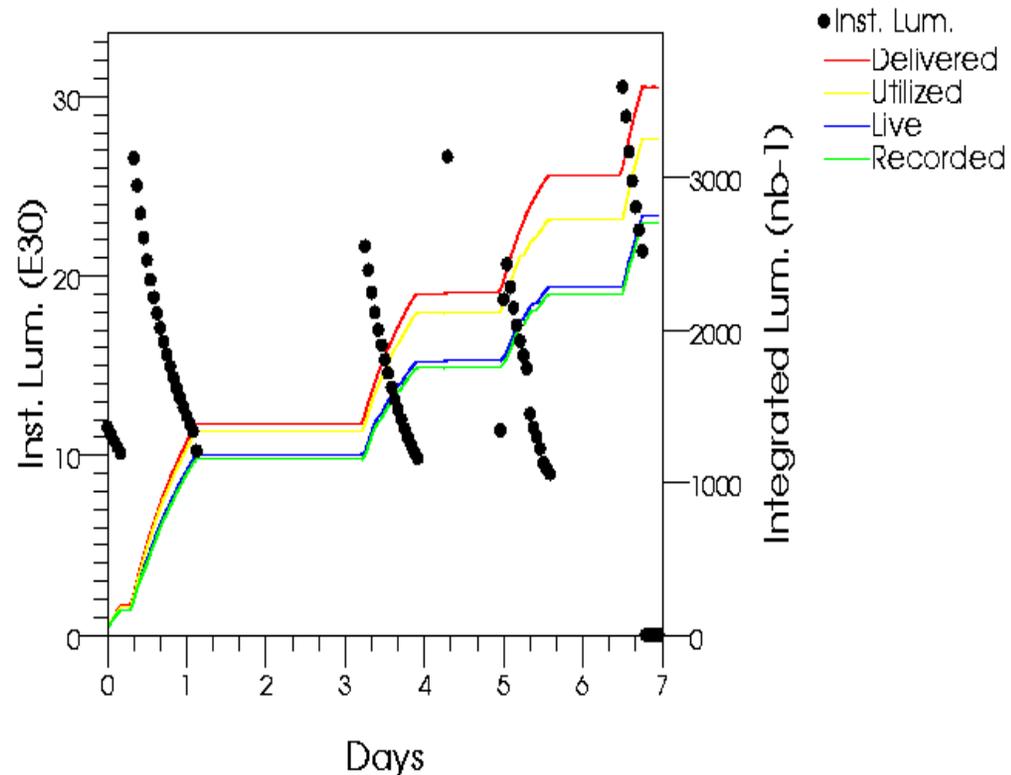
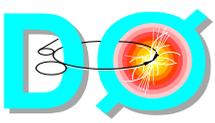


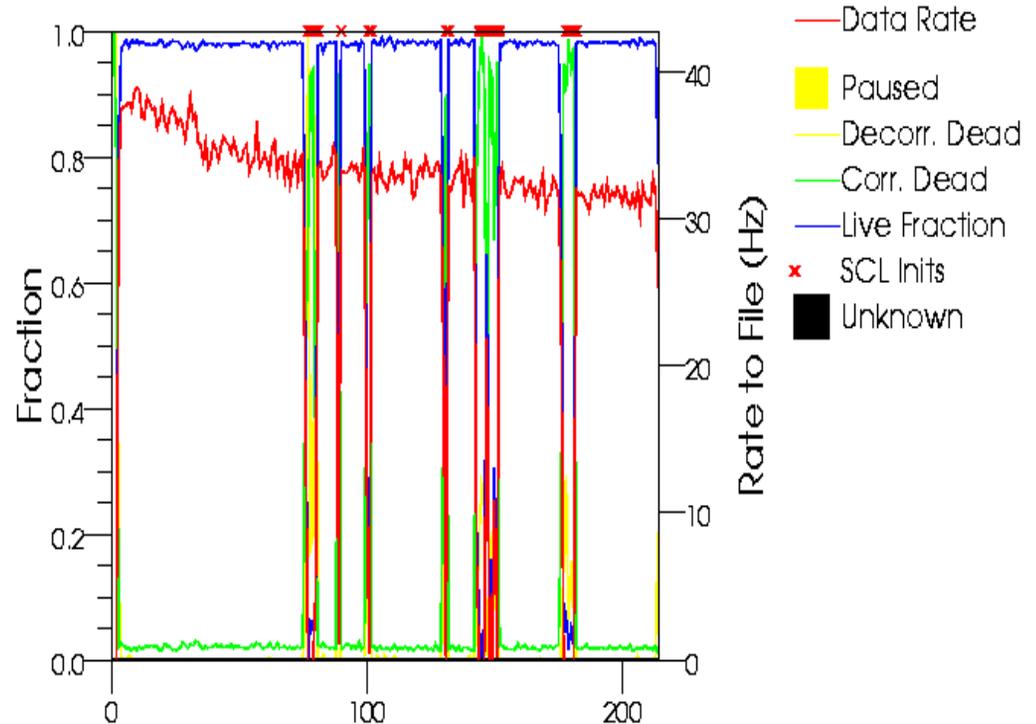
- Delivered luminosity and data taking efficiency
 - ◆ Delivered: 3.6pb^{-1}
 - ◆ Recorded: 2.7pb^{-1} (75%)
- Data taking efficiency
 - ◆ typical global run efficiency is 85%-90%
 - ◆ quite a few special runs
 - ◆ have had a few runs with efficiency in the 95% range
- Number of events collected
 - ◆ 6.5 mln events
- Accelerator halo
 - ◆ within specifications





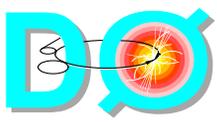
Data Taking and Triggering

- Running physics trigger list 9.50 since last week
 - ◆ changes vs 9.31
 - ▲ Level 2 EM algorithms
 - ▲ muon wire terms added
 - ▲ CFT trigger terms are in for test purposes
- Typical global run trigger rates
 - ◆ L1 trigger $\sim 0.6\text{kHz}$
 - ◆ L2 trigger $\sim 250\text{Hz}$
 - ◆ L3 trigger (to tape) $\sim 50\text{ Hz}$
- Currently most serious issues limiting our trigger rates
 - ◆ muon readout
 - ▲ readout code is still in process of been re-written
 - ▲ lost collider data with un-tested version of the code run on-line early December
 - ▲ Implementing detailed testing of the code before it is used for data taking
- Issues affected our downtime last week (~ 4 hours) total
 - ◆ Silicon problems at the beginning of Friday's store
 - ◆ A few ~ 0.5 hour issues



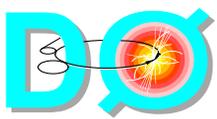
Luminosity Blocks into Run 169649

Best Run in the last 3 months
94% efficiency



January Shutdown

- Detailed day by day plan for the January shutdown has been developed
 - ♦ Shutdown duration is enough to finish all planned jobs
- D0 detector will be fully opened to provide experts with opportunity (first time in more than a year) to access central region of the detector
- Muon system opening is required to fix 2 broken wires in mini-drift tube octants
 - ♦ First 2 days of shutdown
- Multiple other jobs including installations, commissioning, and minor repairs
- Availability of survey for a few critical jobs is important to stay on schedule



Summary

- D0 experiment is progressing well with physics data taking
 - ◆ trigger list 9.5 is running on-line
 - ◆ 6.5 mln events collected last week
- D0 weekly data taking efficiency is steady around **75%**
 - ◆ no major software/hardware problems
 - ◆ running in the "stability" region of the L1/L2 rates
 - ◆ in process of attacking most serious issue
 - ▲ PDT front-end code crashes
 - ◆ downtime is on the level of ~10% for the week
- Filled (not without problems) holiday shift schedule
 - ◆ Expect beam over holiday period
 - ◆ Most of the experts are not around - will minimize number of changes/improvements to absolute minimum, still some issue might require considerably longer time to get resolved
- Merry Christmas to everybody from D0!