



D0 Status Report

10/17/2005

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Fermilab



Data Taking for 9/19 – 9/25

Day	Delivered	Recorded	Eff.	Comments
10/10 (Mon)	0.00 pb ⁻¹	0.00 pb ⁻¹	0 %	No beam due to Booster problems.
10/11 (Tue)	2.77 pb ⁻¹	2.51 pb ⁻¹	91 %	
10/12 (Wed)	2.96 pb ⁻¹	2.71 pb ⁻¹	92 %	
10/13 (Thu)	2.10 pb ⁻¹	1.82 pb ⁻¹	87 %	
10/14 (Fri)	3.16 pb ⁻¹	2.84 pb ⁻¹	90 %	20 min downtime due to FPD crate x12. 15 min downtime due to Lumi crate x11. 15 min downtime due to DAQ console x server crash.
10/15 (Sat)	1.93 pb ⁻¹	1.52 pb ⁻¹	78 %	L1Trigger Framework rack tripped due to smoke alarm.
10/16 (Sun)	2.87 pb ⁻¹	2.68 pb ⁻¹	93 %	

10/10–10/16	15.78 pb ⁻¹	14.07 pb ⁻¹	89 %	
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Notable Events



- 10/13 (Thu)
 - Water leak in L1 Cal rack repaired.
- 10/14 (Fri)
 - 20 min downtime due to FPD crate x12.
 - Luminosity calibration run taken.
 - Will switch to the luminosity reporting by the new (VME) scalers.
 - 15 min downtime due to Luminosity crate x11.
 - 15 min downtime due to DAQ console x server crash.
 - Central muon special run taken.
- 10/15 (Sat)
 - Disruption due to unknown source cost most of the short store 4446.
 - L1 Trigger framework racks tripped due to a smoke alarm.
 - At the same time, there were many alarms from the system in the Collision Hall.
 - CFT LV alarms, CAL BLS LV alarms, Muon readout crates went into an “unconfigured” state.

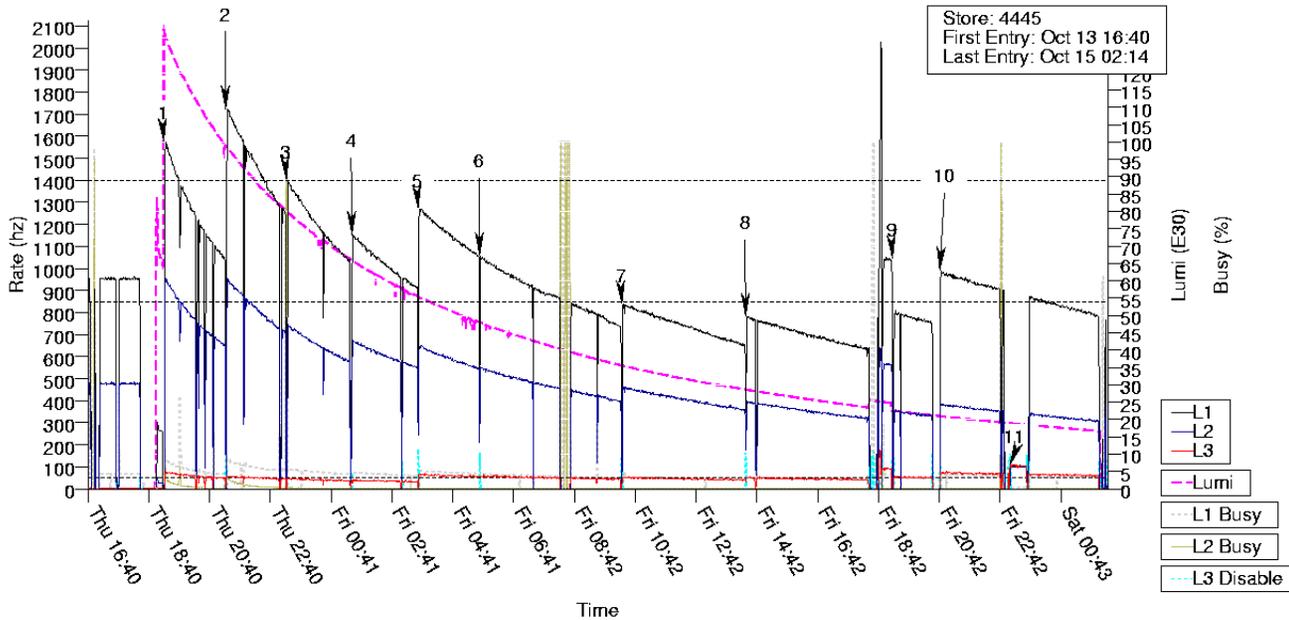


Accesses

- 10/10 (Mon)
 - Worked on grounding of the last two Muon PDTs. This completes the grounding improvement work.
- 10/11 (Tue)
 - Worked on Muon MDT noisy channels.
- 10/13 (Thu)
 - Adjusted a CFT LV power supply.



L2 Busy at High Luminosity



Record D0 initial
Luminosity of $132E30$.
Congratulations to
the AD!

- Recent high luminosity stores highlighted undesirable features in our L2 system.
- We have made substantial progress in addressing these issues.
 - Increased buffer size and change in data transfer mode allow us to run smoothly at high luminosity.
- Further investigations are underway.