



Data Taking Statistics

Week of 2003 Jun 30 - Jul 6

			Normalizable Luminosity (nb ⁻¹)			Hours			Norm. Events (k)		Efficiency	
Day	Date	Del	Util	Rec	Physics	Store	Util	Rec	Rec	Physics	Rec	Phys
Mon	30-Jun-03	1248.08	1227.96	1117.59	1117.59	17.8	17.5	16.8	2472	2472	0.895	0.895
Tue	1-Jul-03	895.00	867.25	772.31	772.31	17.0	16.4	15.3	1984	1984	0.863	0.863
Wed	2-Jul-03	416.07	381.64	280.41	280.41	7.3	6.7	5.6	771	771	0.674	0.674
Thu	3-Jul-03	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0	0	0.000	0.000
Fri	4-Jul-03	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0	0	0.000	0.000
Sat	5-Jul-03	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0	0	0.000	0.000
Sun	6-Jul-03	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0	0	0.000	0.000
		2559.2	2476.9	2170.3	2170.3	42.1	40.6	37.7	5227	5227	0.848	0.848

	Recorded Physics Lumi	Efficiency	Physics Events (million)
This Week	2.2 pb⁻¹	84.8%	5.2
Last Week	6.9 pb⁻¹	87.0%	14.2
Best Week (2003 May 12-18)	7.8 pb⁻¹	91.5%	13.5

- **Bad News:** Lowest operating efficiency in three months
- **Good News:** Lowest operating efficiency in three months



Delivered Luminosity Losses

Date	Time	Downtime (hrs)	Deadtime (hrs)	Reason
27-Jun-03	3:19	0.00	0.18	Hardware reset of CFT Crate
27-Jun-03	12:24	0.20	0.14	Lumi Crate was accidentally turned off
27-Jun-03	13:13	0.00	0.34	SMT HDI Trip in Crate x68
28-Jun-03	13:09	0.00	0.28	SMT Crate x65 Readout Problem
28-Jun-03	15:00	0.00	0.55	Fatal alarm Muon MDT
29-Jun-03	18:19	0.00	0.22	Muon Fatal Alarms
29-Jun-03	19:52	0.13	0.08	Muon trips in Crates x30 and x31
30-Jun-03	15:26	0.22	0.34	L2, L3 and Muon Readout Problems
1-Jul-03	3:03	0.00	0.38	Calorimeter HV Trip
1-Jul-03	6:09	0.18	0.00	Calorimeter Hot Cell Removal
1-Jul-03	8:00	0.16	0.17	L1 CTT Muon Trigger Rate Problem
1-Jul-03	16:41	0.32	0.00	CPS Calibration Run
2-Jul-03	5:52	0.00	0.15	Muon HV Trip
2-Jul-03	6:50	0.33	0.72	SMT Crate x66 Readout Problems
2-Jul-03	12:16	0.18	0.00	Calorimeter HV Trip & CTT Redownload

- We have seen most of these type of problems before, but...
 - More human errors than usual
 - Influx of newer, less experienced shifters
 - Average response time was slower
 - Many experts taking vacations
- Today (July 7) - Resumed physics data taking within 3 minutes of Store 2768 declaration - stable running first hour plus and counting



Plans for Upcoming Week

- Dmitri Denisov is away from the lab until July 14
 - I will be Acting RC until next Monday (Pager: 218-8991)
- Have few jobs that need ~1 hour of controlled access
 - Muon Pixel & PDT electronics; CTT firmware upgrade
 - Low priority - can wait for natural opportunity
- Significant changes to our trigger list today
 - First run (2-3 hrs) of this store - proof of principle test
 - Will end our "Summer Conference" data set
 - Performed extensive tests, and taken special runs
 - New triggers, filters, tools, etc.
 - Expect to be able to increase our L2 rates by ~100%
 - L1/L2/L3 ~ 1500/800/50 Hz
- Rest of week - Integrate Luminosity!



D0 Integrated Luminosity

D0 Run Ila Integrated Luminosity

19 April 2002 - 6 July 2003

