



# DØ Status Report

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All Experimenters' Meeting  
23 February 2009



# Data Taking

	Delivered Lum (pb <sup>-1</sup> )	Recorded Lum (pb <sup>-1</sup> )	Efficiency (%)	Comment
16 Feb	9.61	6.76	70	55 minutes for Muon MDT / Level 3 computing farm problem. Level 1 Calorimeter problems.
17 Feb	11.00	9.44	86	Level 1 Calorimeter problems.
18 Feb	9.36	8.59	92	13 minutes for Level 2 problem (L2 Tracking). 19 minutes for Level 3 Single Board Computer (SBC) problem.
19 Feb	9.17	8.27	90	1hr for Level 2 problem (L2 Calorimeter).
20 Feb	6.65	6.35	96	
21 Feb	8.83	8.45	96	
22 Feb	9.54	8.74	92	30 minutes for Muon PDT / Level 2 problem (L2 Muon).
16–22 Feb	<b>64.2</b>	56.6	88	<b>3<sup>rd</sup> best weekly delivered luminosity.</b>



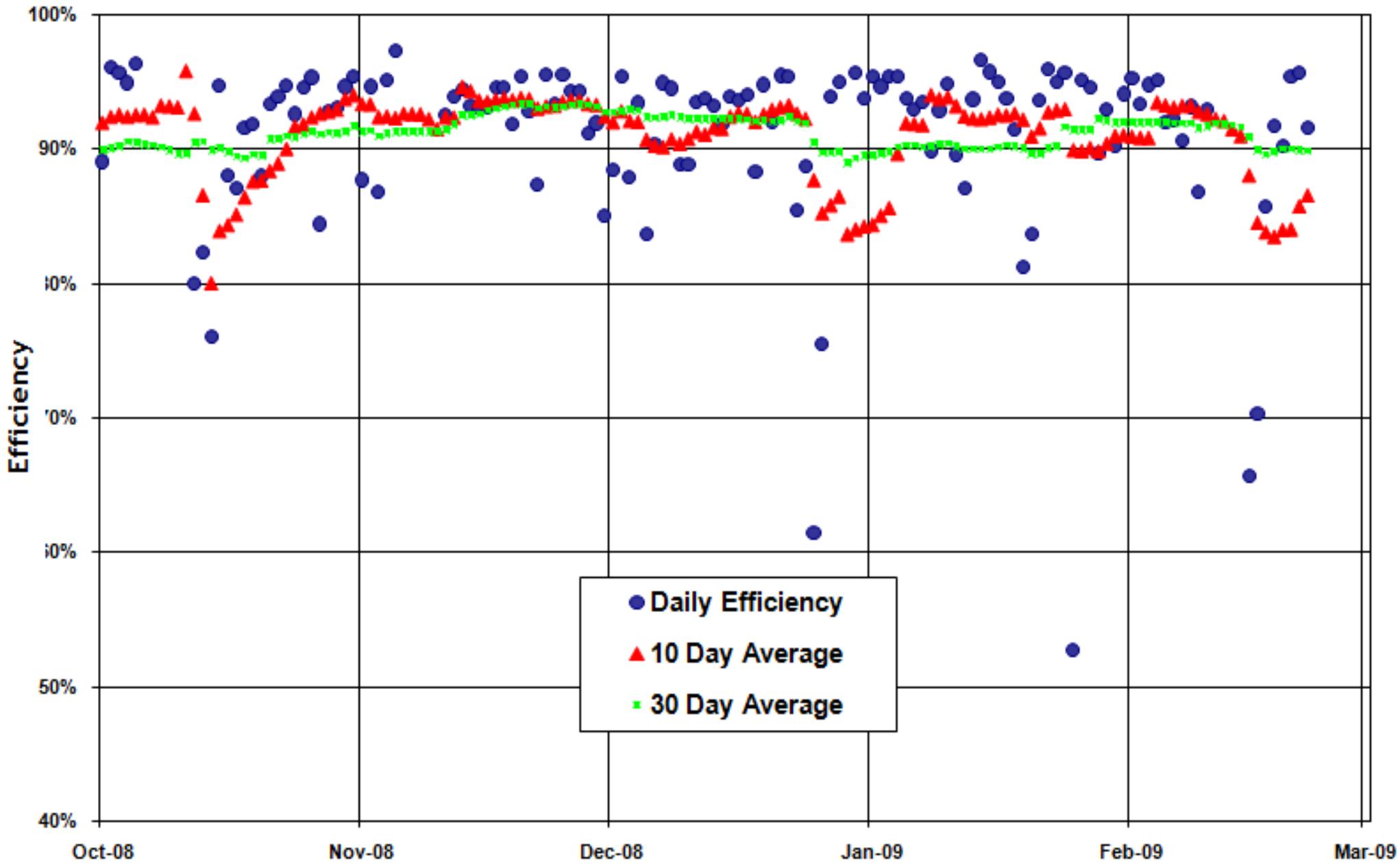
# Level 1 Calorimeter (L1Cal) Problems

- L1Cal readout crate fan failure:
  - Started store 6809 smoothly
  - Encountered data flow interruptions eventually attributed to failure of cooling fan for L1Cal readout crate
  - Fixed by activating a back-up fan
- L1Cal communication hardware failure:
  - L1Cal trigger status varied during stores 6810 and 6811 due to failing PCI-VME communication hardware
  - Incurred significant inefficiencies as we attempted to diagnose this rare problem
  - Some compromised L1Cal data as the trigger settings were being reset by failing hardware
  - Fixed by replacing the PCI-VME bridge prior to store 6812



# Daily Data Taking Efficiency

FY09 through 22 February





# Run II Integrated Luminosity

19 April 2002 - 22 February 2009

