



# D0 Status Report

Bill Lee  
FNAL

All Experimenters' Meeting  
22 March 2010



# Data Taking

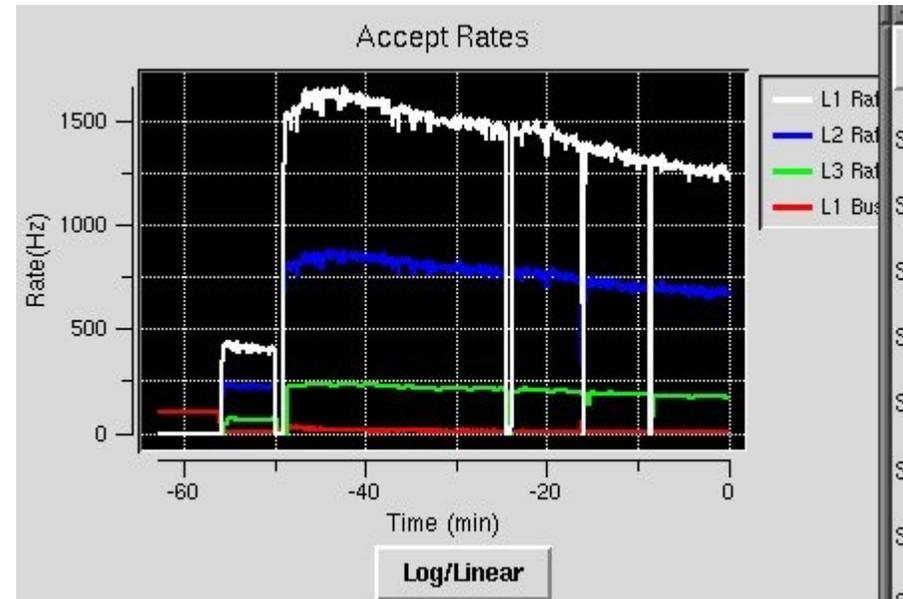
|  | Delivered<br>Lum (pb <sup>-1</sup> ) | Recorded<br>Lum (pb <sup>-1</sup> ) | Efficiency<br>(%) | Comment |
|--|--------------------------------------|-------------------------------------|-------------------|---------|
|--|--------------------------------------|-------------------------------------|-------------------|---------|

|                  |             |             |           |  |
|------------------|-------------|-------------|-----------|--|
| 15 Mar           | 10.30       | 9.66        | 94        |  |
| 16 Mar           | 9.92        | 9.31        | 94        |  |
| 17 Mar           | 7.02        | 6.65        | 95        |  |
| 18 Mar           | 8.72        | 8.18        | 94        | Opportunistic access for Muon system.<br>Record D0 initial Lumi – 369E30   |
| 19 Mar           | 5.50        | 4.99        | 91        | Opportunistic access to replace a Muon<br>Cable.   |
| 20 Mar           | 7.39        | 6.84        | 92        | Power glitch tripped off a few power<br>supplies, including a CAL preamp and a<br>readout crate for our track trigger. The<br>readout crate was not fully recovered<br>until after store 7694. |
| 21 Mar           | 8.52        | 8.02        | 94        |  |
| <b>15-21 Mar</b> | <b>57.4</b> | <b>53.7</b> | <b>94</b> |  |



# Record Store

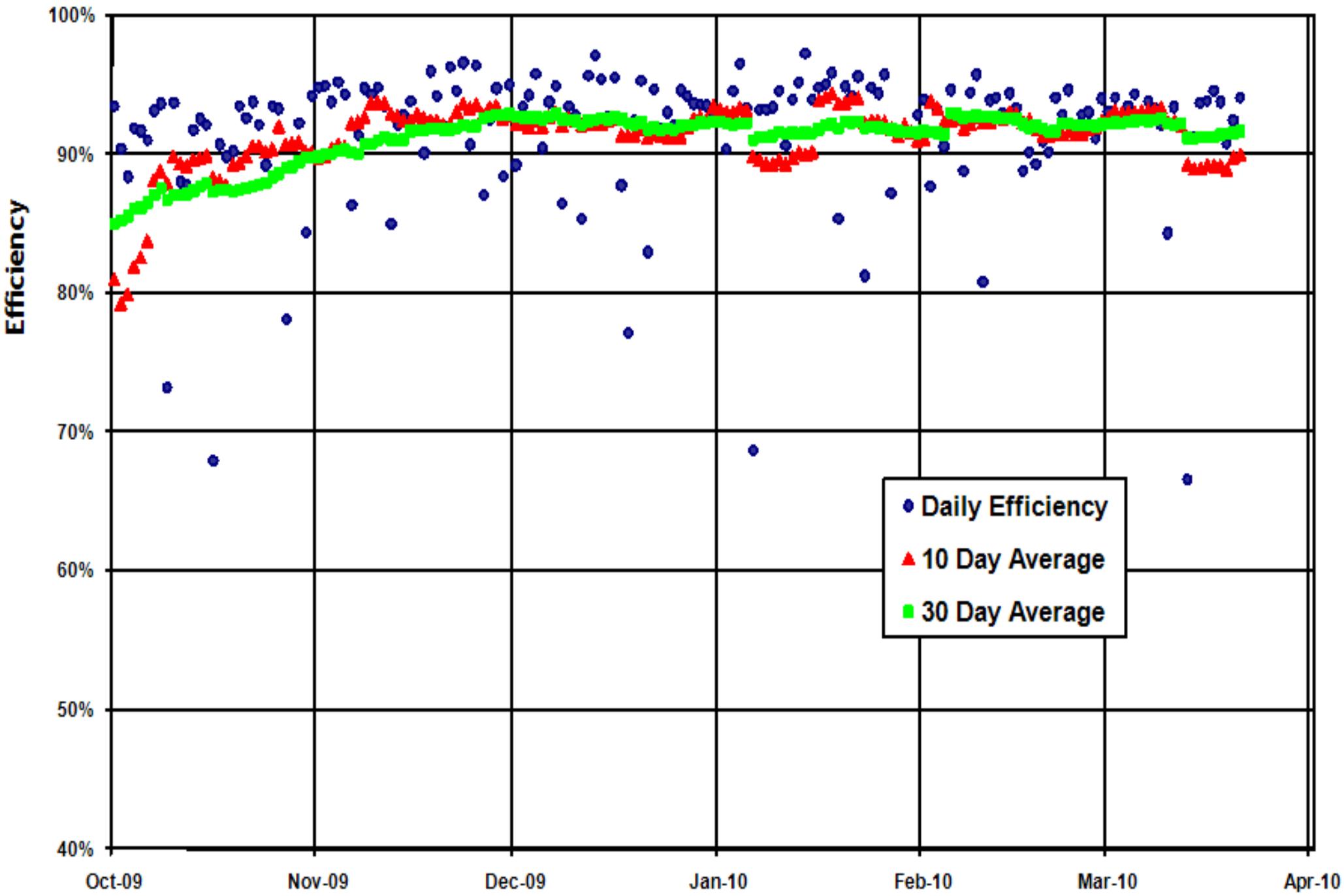
- Initial Luminosity –  $369\text{E}30$ 
  - Previous Record,  $354\text{E}30$
- Deadtime
  - Began taking data  $< 90$  s after the beginning of the store.
  - Initially, 28%
  - Dropped to 10% in 10 minutes
- We continue efforts to optimize trigger choices.
  - We look forward to more opportunities to explore our trigger at high luminosity.





# Daily Data Taking Efficiency

1 October 2009 - 21 March 2010





# Run II Integrated Luminosity

19 April 2002 - 21 March 2010

