



D0 Status Report

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All Experimenters' Meeting
19 September 2005



Daily Data Taking

Day	Delivered Lum (pb^{-1})	Recorded Lum (pb^{-1})	Efficiency (%)	Comment
12 sept	2.11	1.87	88	1 hour RunIIB L1CAL test run. 35 min down due to Comics
13 Sept	?	?	?	45 min down for SMT crate power cycle. Trigger list 14.41 with multiple streams used.
14 Sept	?	?	?	Luminosity loses raid array. 1 hour L1Cal2b run
15 Sept	?	?	?	
16 Sept	3.30	2.92*	89	Silicon Sequencer PS failed during squeeze.
17 Sept	2.36	1.93*	82	Access. Another Silicon Sequencer PS failed during squeeze. Muon PDT problems.
18 Sept	1.44	1.25*	87	Access to replace Sequencer PS.

*not useful for most physics analysis

12-18 Sept	?	?	?	
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Luminosity Information

- Wednesday morning, the raid array for luminosity failed.
 - This was a raid 5 array which had two disks fail within hours of each other.
 - This makes most of the online luminosity information unavailable.
 - We are in the process of recreating the processed scaler information.
 - A new disk is set up and new reports are being generated.
 - Regenerating old reports will take longer.



Accesses

- 17 September (3 hours)
 - Replace Silicon Sequencer Power Supply.
 - Adjust central scintillator timing.
 - Took longer than expected to get Muon system working.
 - Test RunIb Muon control board.
 - Repair a couple Muon Pixels.
 - Repair a few Calorimeter channels.
- 18 September (1.5 hours)
 - Replace Silicon Sequencer Power Supply.
 - Muon PDT control board repair.

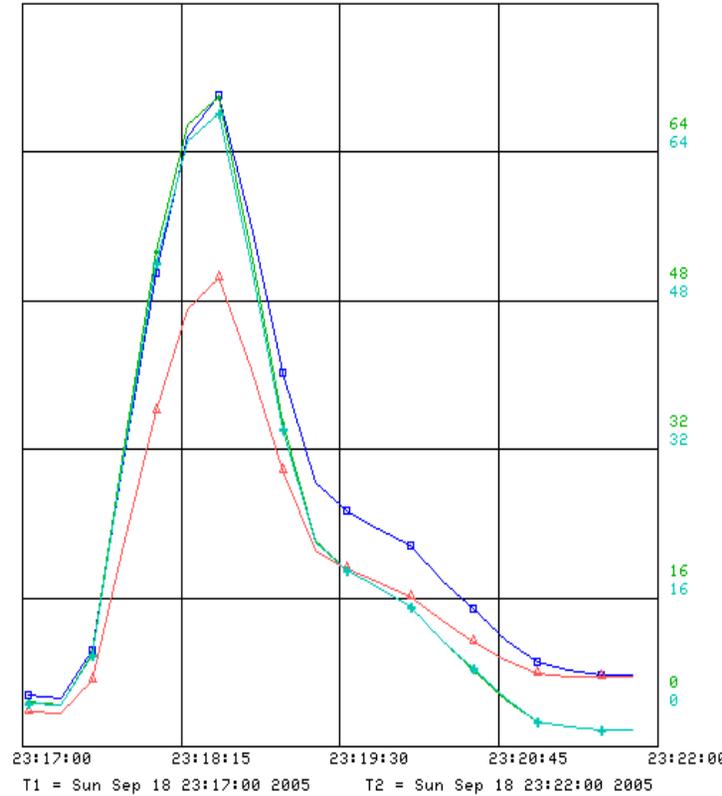
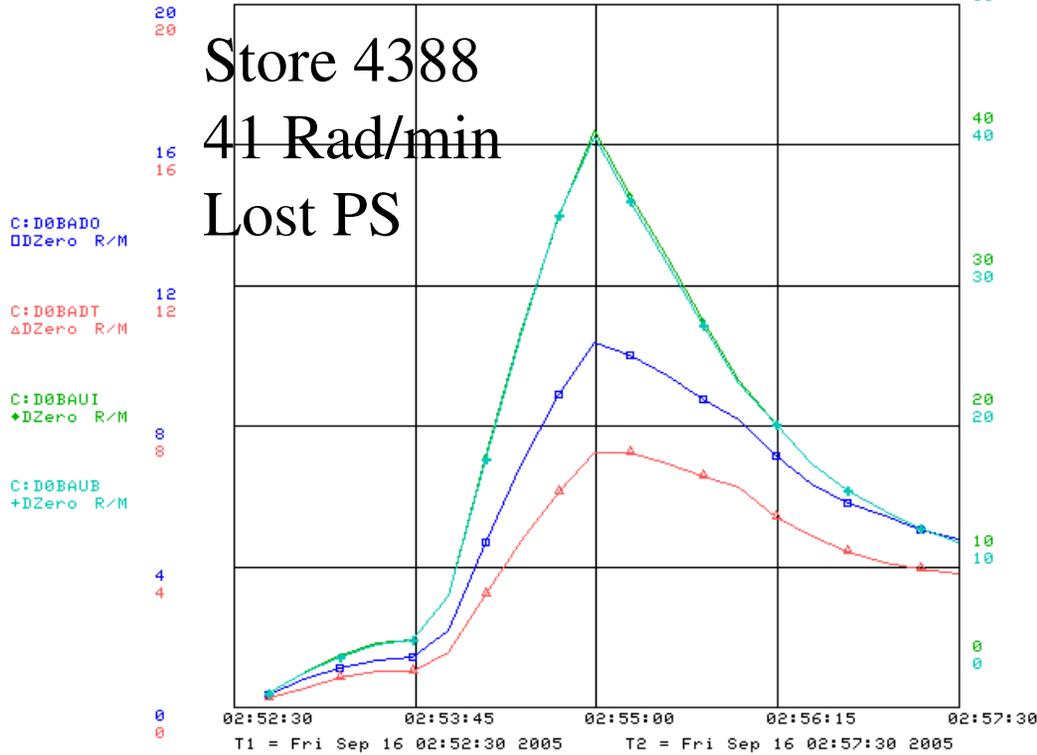


Beam Loss During Squeeze

Mon 19-SEP-2005 10:34:05 50 50

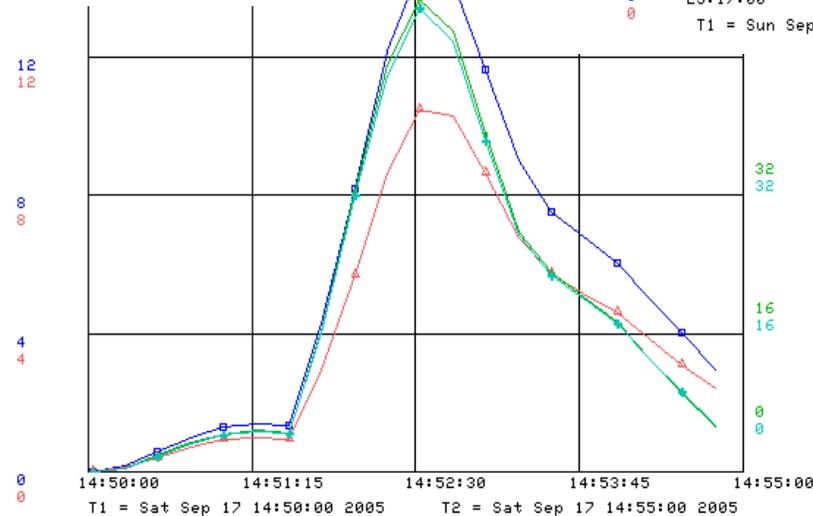
Mon 19-SEP-2005 10:08:22 80 80

Store 4388
41 Rad/min
Lost PS



Store 4392
70 Rad/min

Store 4390
55 Rad/min
Lost PS





Summary

- The first half of the week was good.
 - D0 was able to keep its downtimes to a minimum.
 - D0 began using multiple streams for data taking. This will allow us to increase our output rate to tape.
 - However, the loss of the luminosity disk kept us from quantifying our efficiency.
 - These numbers will be rebuilt, but it will take some time.
- The last three days of the week were not so good.
 - The two stores during this period were each missing a 6th of the silicon due to the loss of a power supply during each squeeze.
 - D0 is working with the AD to resolve this problem.
- Today's store began well with the whole D0 detector,
 - but losses during the squeeze were once again high.