

2010-12-09 Thursday Morning Notes

Thursday, December 09, 2010

7:37 AM

Stacking and Transfers

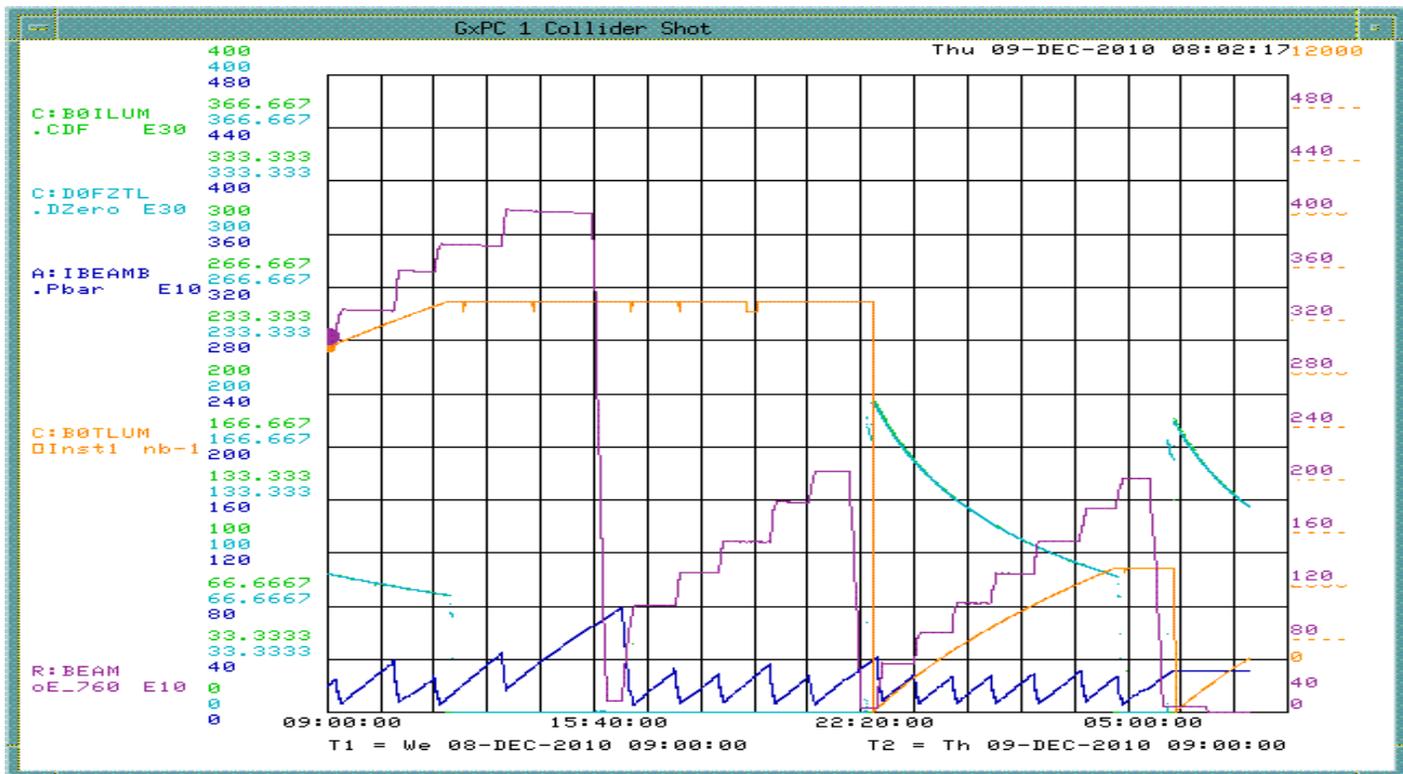
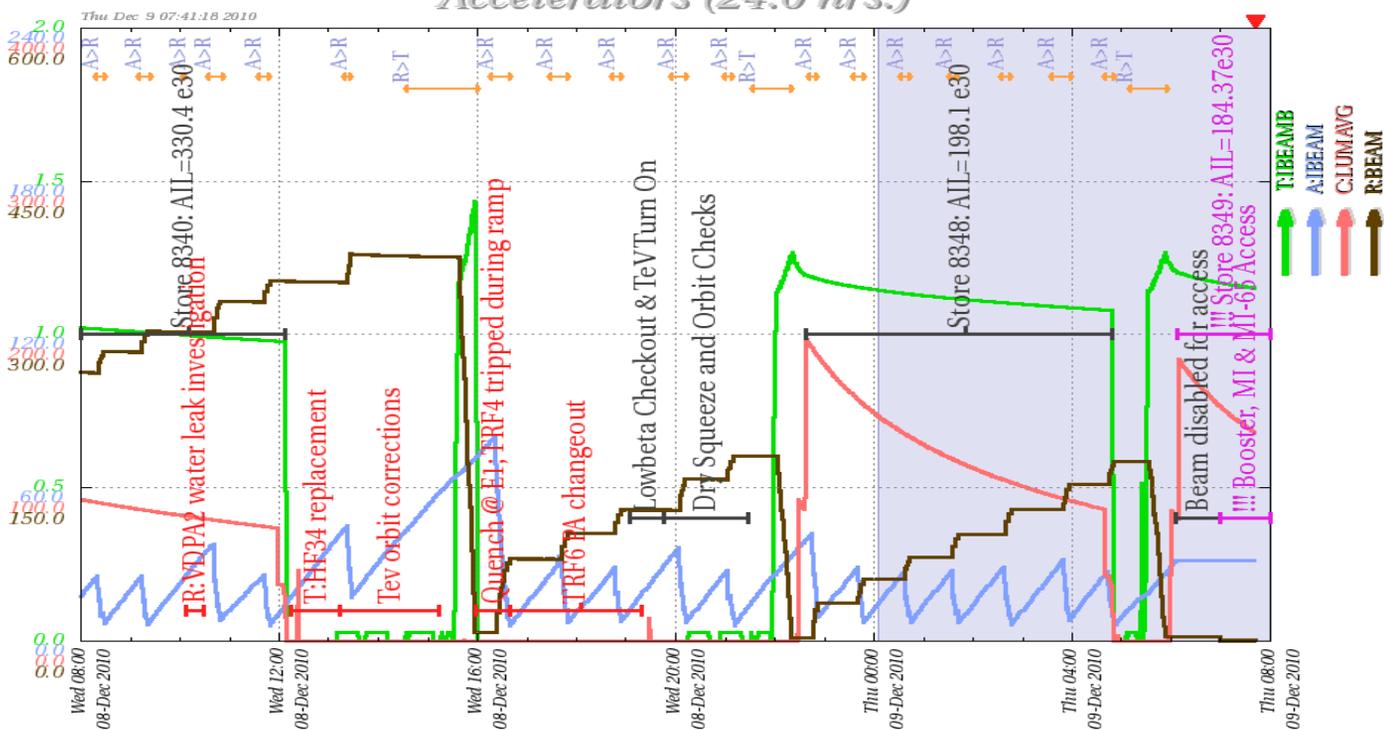
- Stacked 24.8mA/hr with a production of 19.8 pbars/Mp with 7.88 Tp on target
- Unstacked 475E10 in 50 transfers over 16 sets with an average efficiency of 95.2%.
 - Transfer 22229 (81ma) was 92.6%
 - Transfer 22228 (45ma) was 94.4%
 - Removing those two we get 95.8%

Numbers

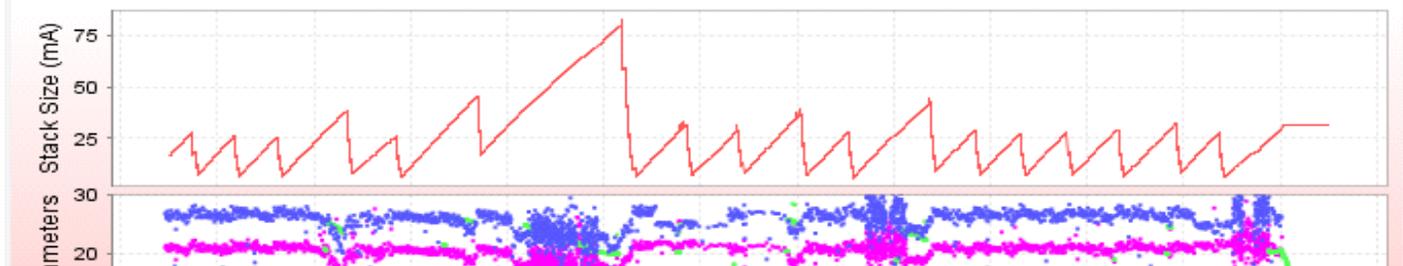
- Stacking
 - Pbars stacked: 520.55 E10
 - Time stacking: 22.23 Hr
 - Average stacking rate: 23.42 E10/Hr
- Uptime
 - Number of pulses while in stacking mode: 34651
 - Number of pulses with beam: 33366
 - Fraction of up pulses was: 96.29%
- The uptime's effect on the stacking numbers
 - Corrected time stacking: 21.40 Hr
 - Possible average stacking rate: 24.32 E10/Hr
 - Could have stacked: 540.59 E10/Hr
- Recycler Transfers
 - Pbars sent to the Recycler: 493.16 E10
 - Number of transfers : 52
 - Number of transfer sets: 18
 - Average Number of transfer per set: 2.89
 - Time taken to shoot including reverse proton tuneup: 00.18 Hr
 - Transfer efficiency: 94.95%
- Other Info
 - Average POT : 7.88 E12
 - Average production: 19.80 pbars/E6 protons

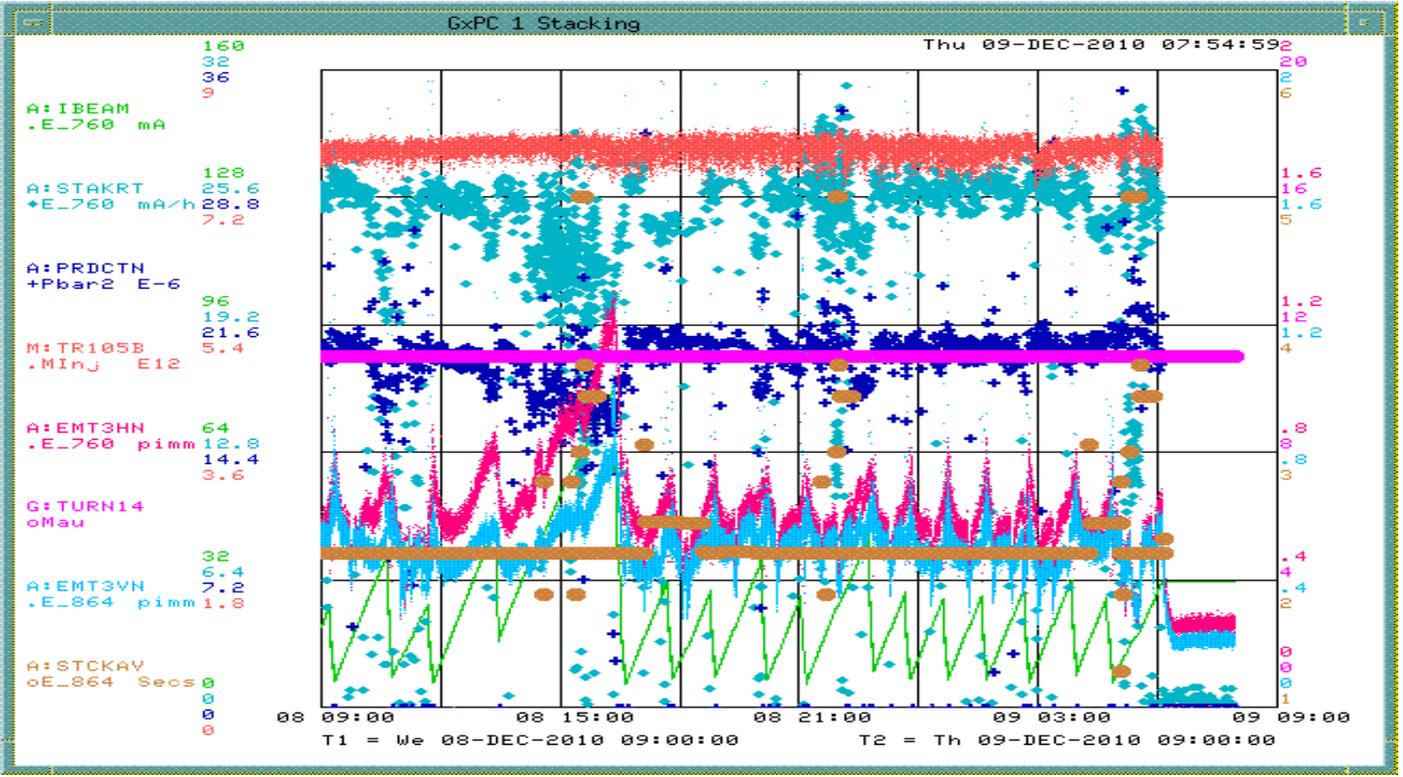
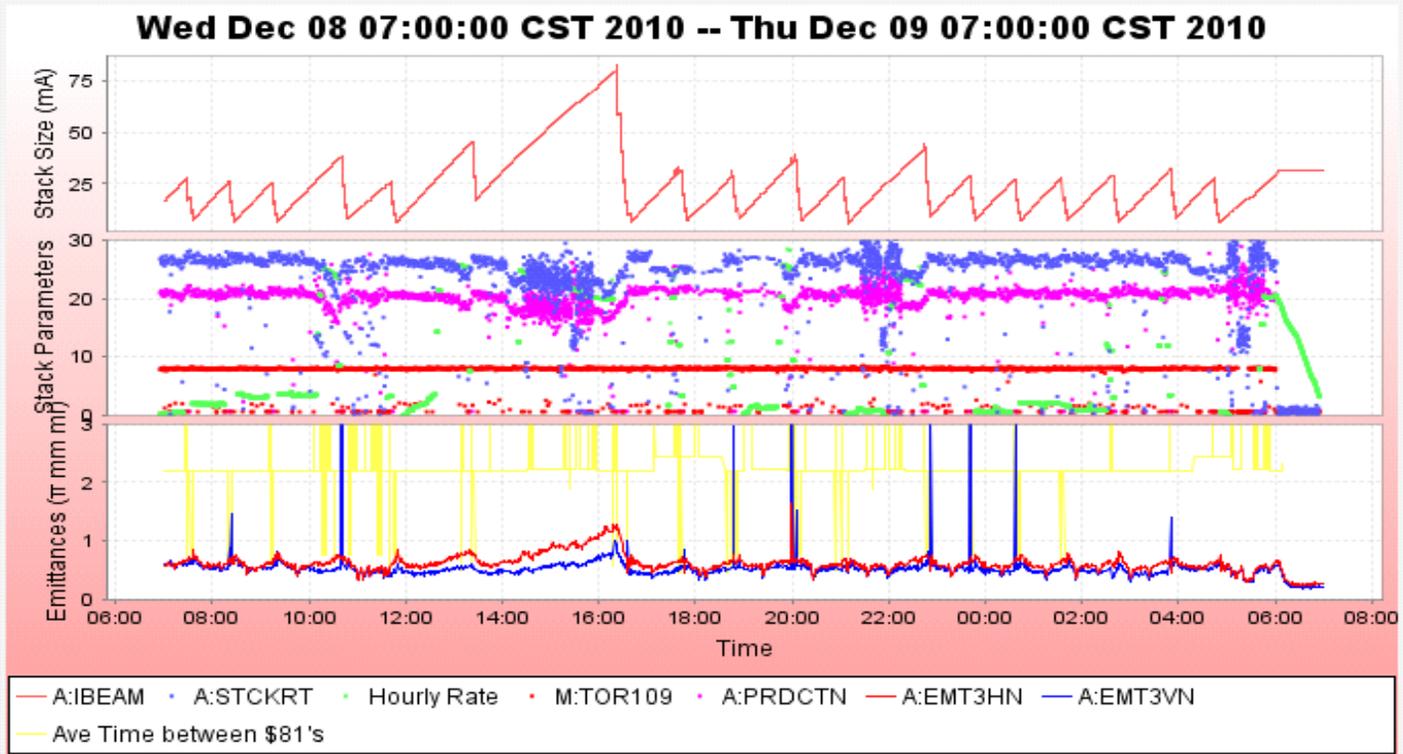
Plots

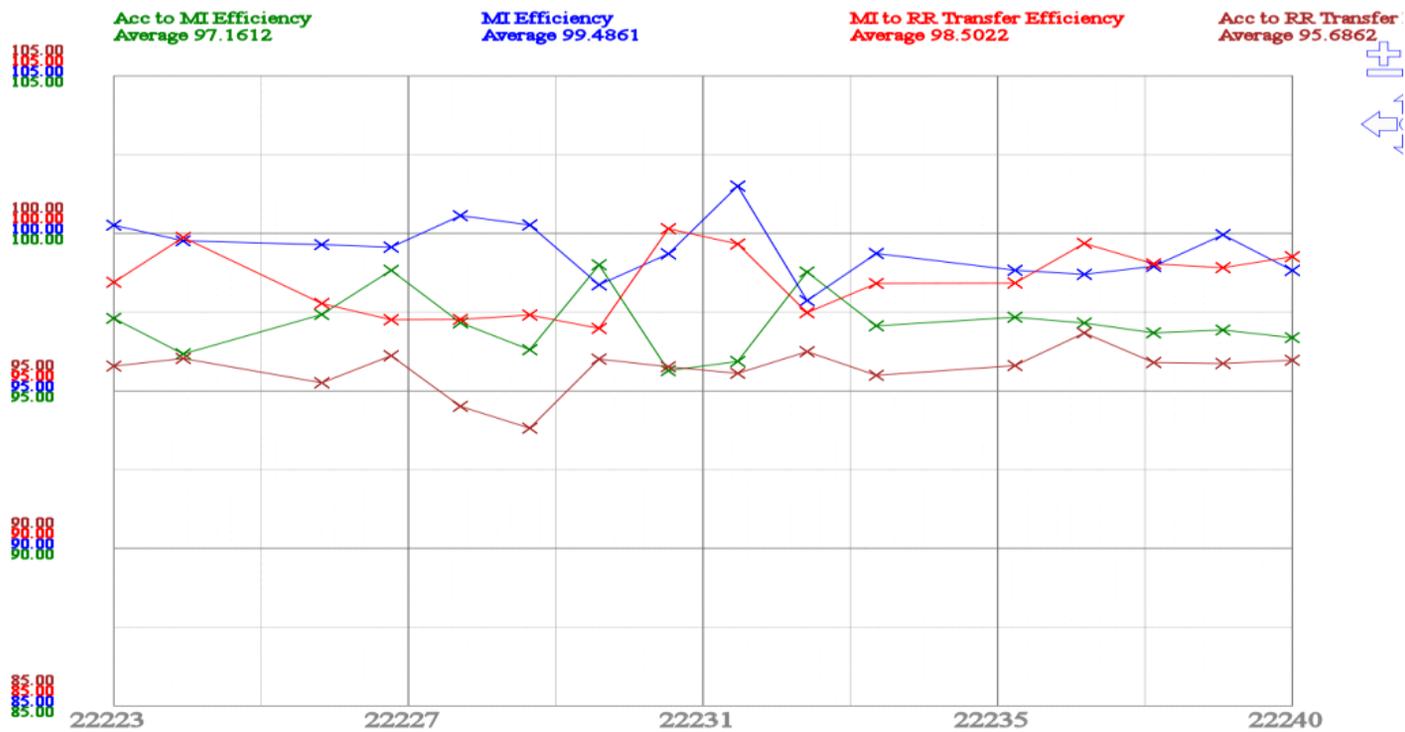
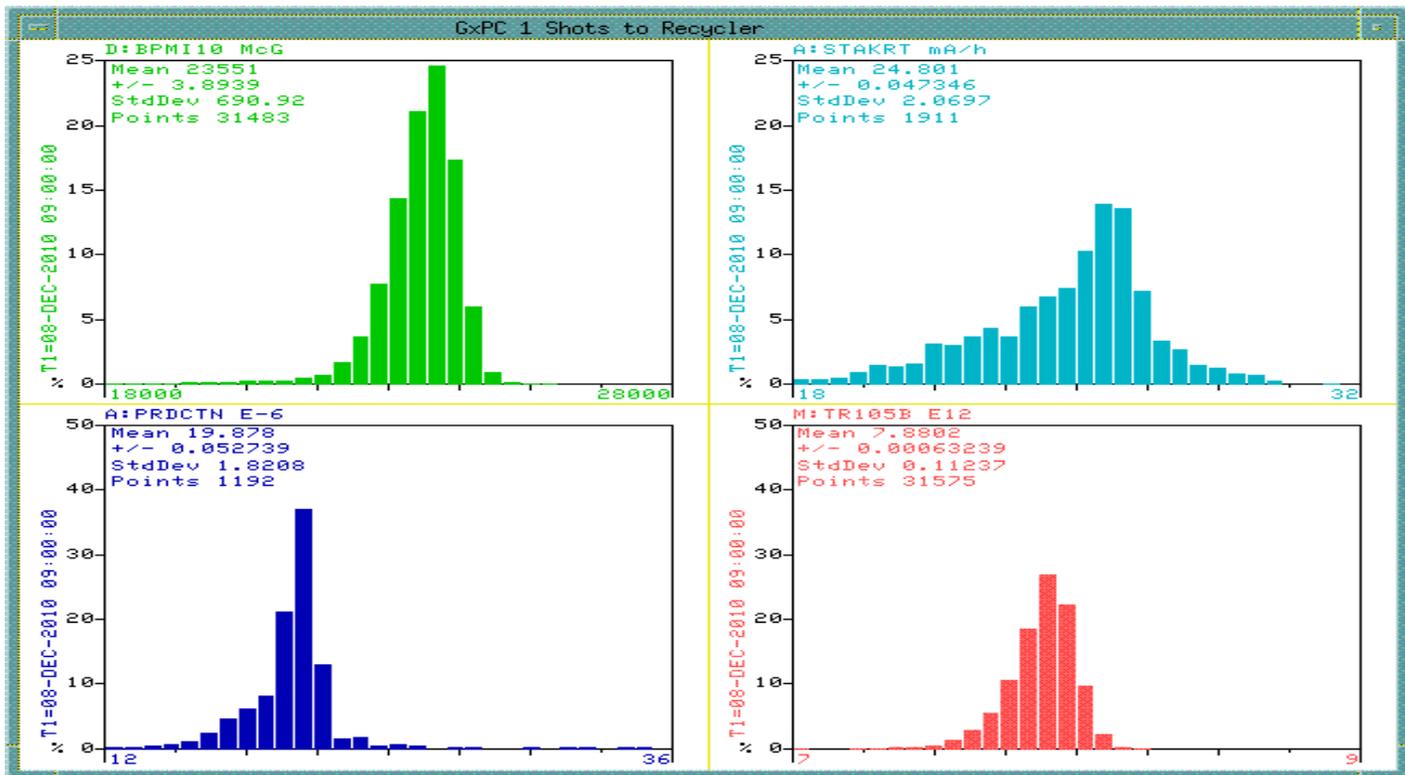
Accelerators (24.0 hrs.)



Wed Dec 08 07:00:00 CST 2010 -- Thu Dec 09 07:00:00 CST 2010







Column 1 Number_0_Pbar Transfer Shot #	Column 4 Number_3_Transfer Time	Column 21 Number_20_A:1 BEAMB sampled on \$91 (A:BEA M7), E10	Column 22 Number_21_A:1 BEAMB sampled on \$94 (A:BEA M9), E10	Unstacked (mA)	Column 23 Number_22_R: BEAMS (R:BEA ME0[0]) pre sfer E10	Column 24 Number_23_R: BEAM (R:BEA ME0[1]) post sfer, E10	Stashed	Acc to RR Eff	Acc to MI Eff	Acc to MI2 Eff	Acc to MI * Acc to MI2 Efficiency	Transfers	Sets	Column 5 Number_4_Acc Horizontal Emittance	Column 6 Number_5_Acc Vertical Emittance	Column 8 Number_7_Acc Longitudinal Emittance	
Totals =>				475.25			452.37	95.19%	97.09%	96.57%	93.76%	50	16	6.1642	4.9514	1.9215	
Daily Average =>				475.25			452.37					50	16				
22240	Thursday, December 09, 2010	4:43	27.55	6.04	23.99	153.48	176.24	22.97	95.74%	96.39%	95.59%	92.13%	3	1	5.706	4.963	1.924
22239	Thursday, December 09, 2010	3:49	31.91	8.02	26.48	128.67	153.77	25.38	95.85%	97.16%	96.75%	94.00%	3	1	6.312	5.373	1.945
22238	Thursday, December 09, 2010	2:39	29.17	6.30	25.46	104.61	128.91	24.47	96.09%	97.19%	96.70%	93.98%	3	1	5.609	4.054	1.96
22237	Thursday, December 09, 2010	1:35	28.04	6.89	23.72	82.13	104.80	22.97	96.81%	97.13%	96.21%	93.45%	3	1	5.884	4.815	1.963
22236	Thursday, December 09, 2010	0:36	27.29	6.72	23.14	60.36	82.35	22.17	95.82%	97.41%	96.11%	93.62%	3	1	6.005	4.805	1.944
22234	Wednesday, December 08, 2010	22:45	42.38	9.03	35.77	3.44	37.20	34.06	95.21%	97.51%	96.67%	94.27%	3	1	6.353	5.384	1.877
22233	Wednesday, December 08, 2010	21:03	28.05	5.62	24.30	158.24	181.43	23.40	96.30%	98.60%	96.93%	95.57%	3	1	5.656	4.814	1.941
22232	Wednesday, December 08, 2010	20:04	36.73	6.82	32.18	128.28	158.68	30.74	95.53%	96.24%	96.89%	93.25%	3	1	5.958	4.928	1.852
22231	Wednesday, December 08, 2010	18:46	29.23	7.49	24.29	105.48	128.61	23.27	95.80%	96.03%	95.23%	91.45%	3	1	6.27	5.045	1.958
22230	Wednesday, December 08, 2010	17:42	31.44	7.21	26.76	80.36	105.73	25.64	95.80%	98.67%	97.36%	96.07%	3	1	6.167	4.724	1.952
22229	Wednesday, December 08, 2010	16:23	80.46	5.88	80.06	8.26	80.77	74.17	92.64%	96.14%	95.56%	91.87%	6	1	8.142	5.522	1.868
22228	Wednesday, December 08, 2010	13:22	45.37	16.61	29.96	351.07	379.05	28.30	94.45%	97.18%	97.88%	95.12%	2	1	7.425	4.873	1.848
22227	Wednesday, December 08, 2010	11:41	25.82	6.05	22.28	331.81	352.87	21.40	96.03%	98.73%	98.24%	96.98%	3	1	5.511	4.07	1.913
22226	Wednesday, December 08, 2010	10:40	38.11	7.67	32.67	302.31	333.00	31.05	95.04%	97.35%	96.84%	94.27%	3	1	6.222	5.295	1.884
22224	Wednesday, December 08, 2010	9:13	25.65	6.27	21.93	282.83	303.55	21.04	95.95%	96.21%	96.38%	92.73%	3	1	5.782	5.286	1.972
22223	Wednesday, December 08, 2010	8:20	25.96	6.27	22.25	262.56	283.62	21.36	95.97%	97.65%	97.54%	95.25%	3	1	5.625	5.272	1.943