

2010-11-09 Tuesday Morning Notes

Tuesday, November 09, 2010
7:08 AM

On-call

- Tuesday: Keith Gollwitzer
- Wednesday and Thursday: Steve Werkema

Stacking

- The Accumulator vertical emittance readback took a large step downward last night, that isn't real. We had a similar problem, although smaller in magnitude in June. In that case, the problem went away on its own after a few days without the source of the problem being identified.
- The AP1 BPMs stopped being datalogged on 80 events beginning at about 0500 on 11/7. AP1 BPMs are back again. Kevin found node ABPP1 pinging okay, but not returning data on clock event. Reinitialized logger and data returns are coming in. He will look into it further.
- Stacking Numbers
 - 25.1 mA/hr
 - 20.7 pbars/Mp
 - 7.88 TP

Transfers

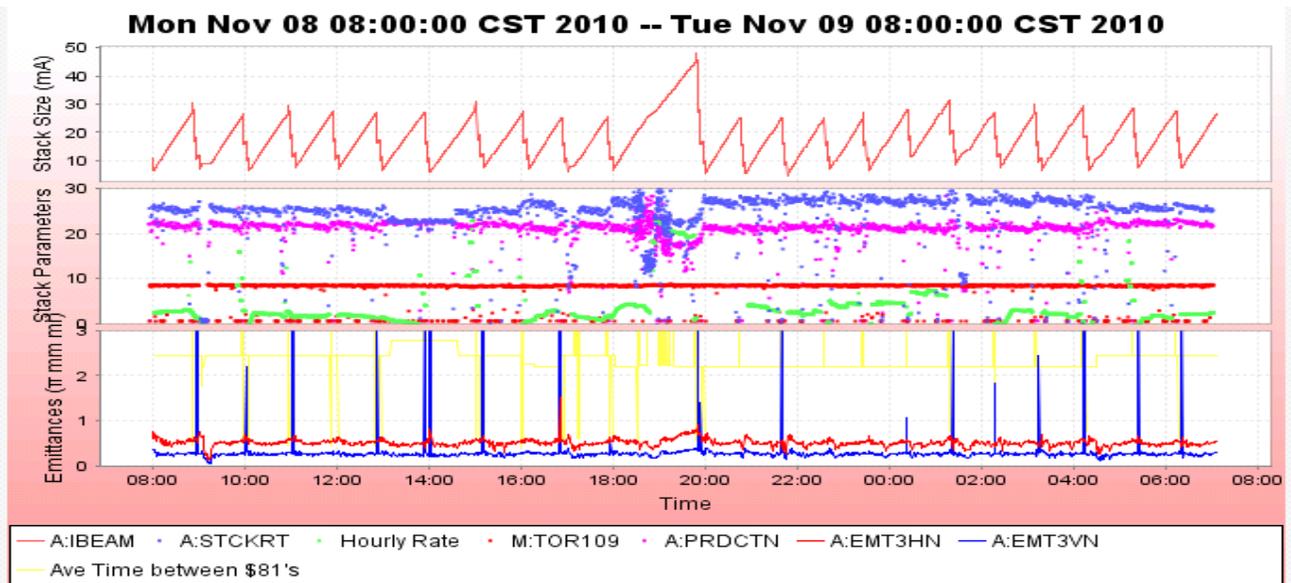
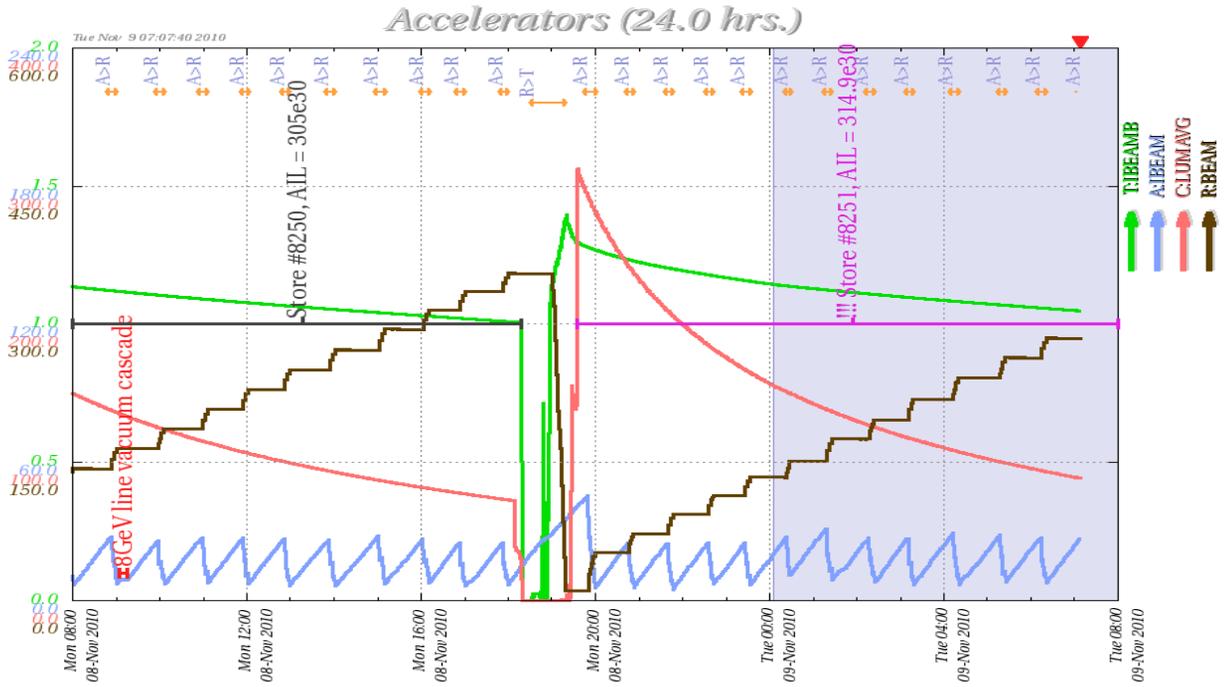
- Unstacked 538E10 in 69 transfers over 23 sets.
- Average efficiency = 96.2%

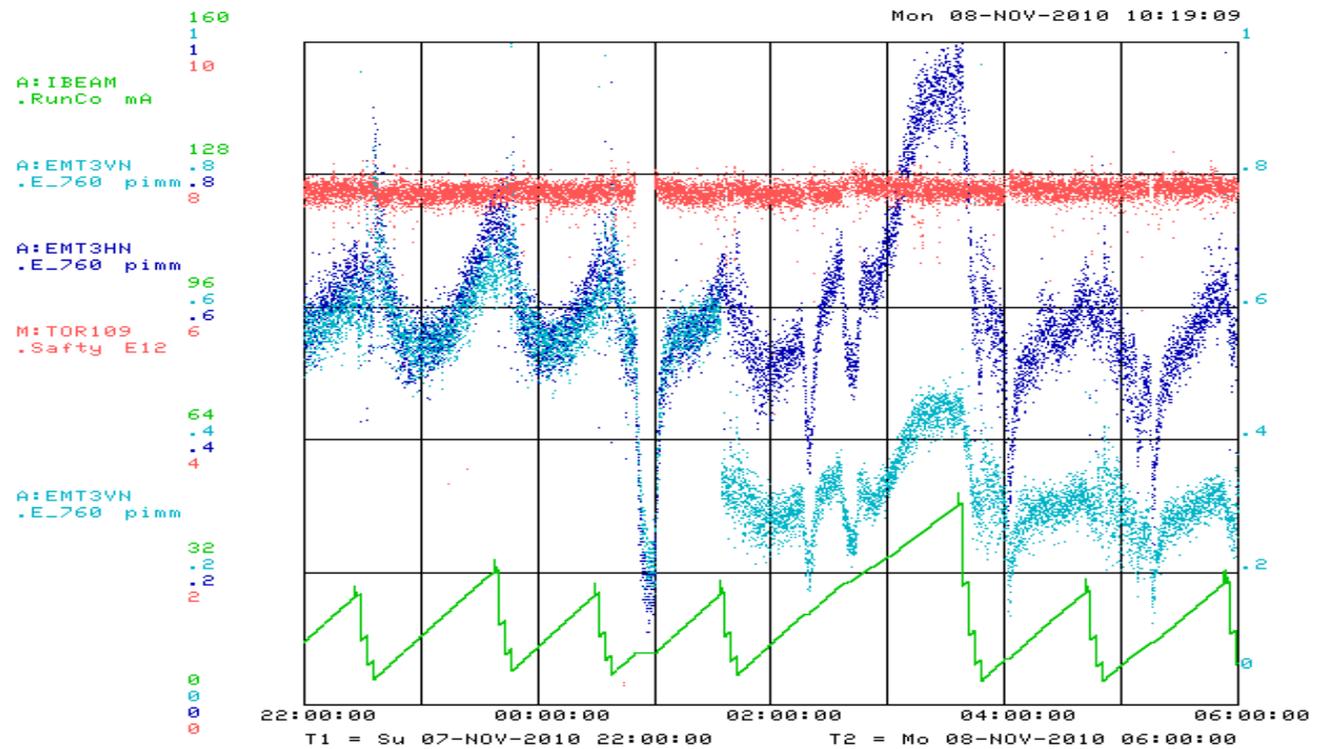
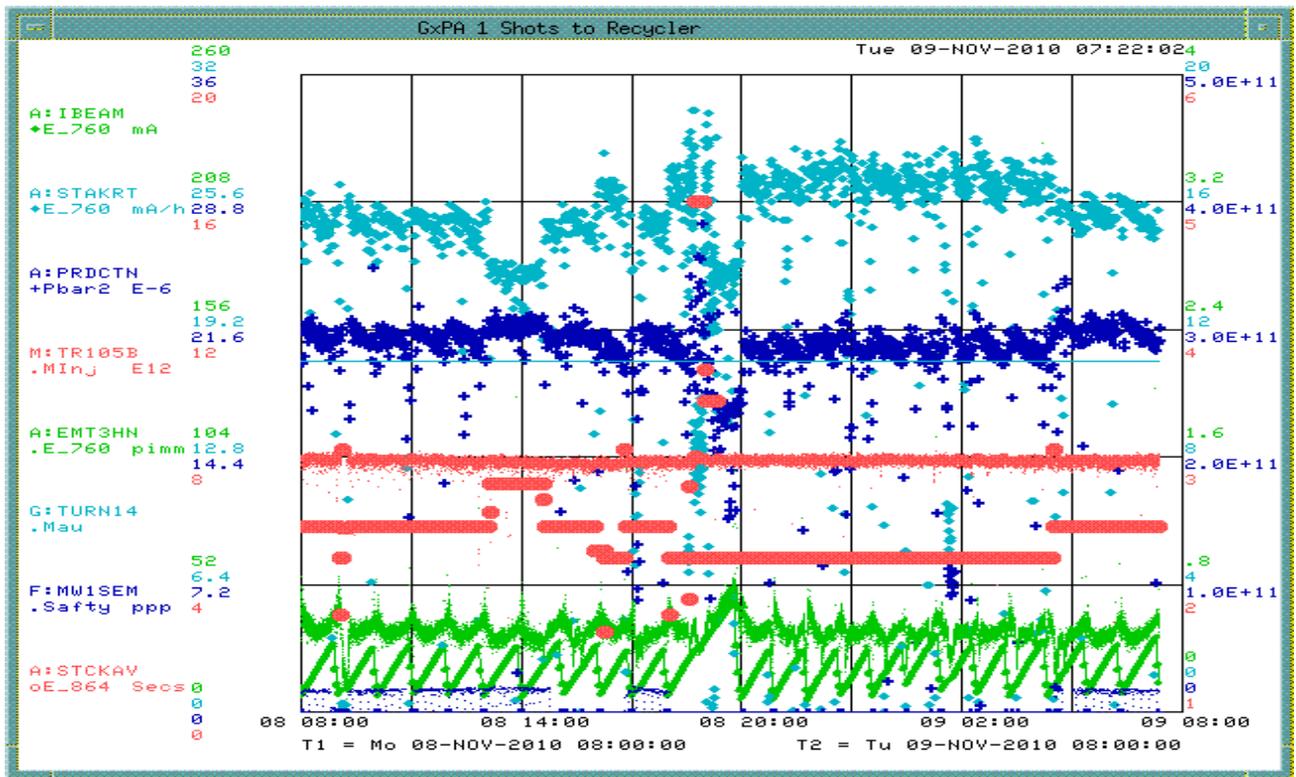
Numbers

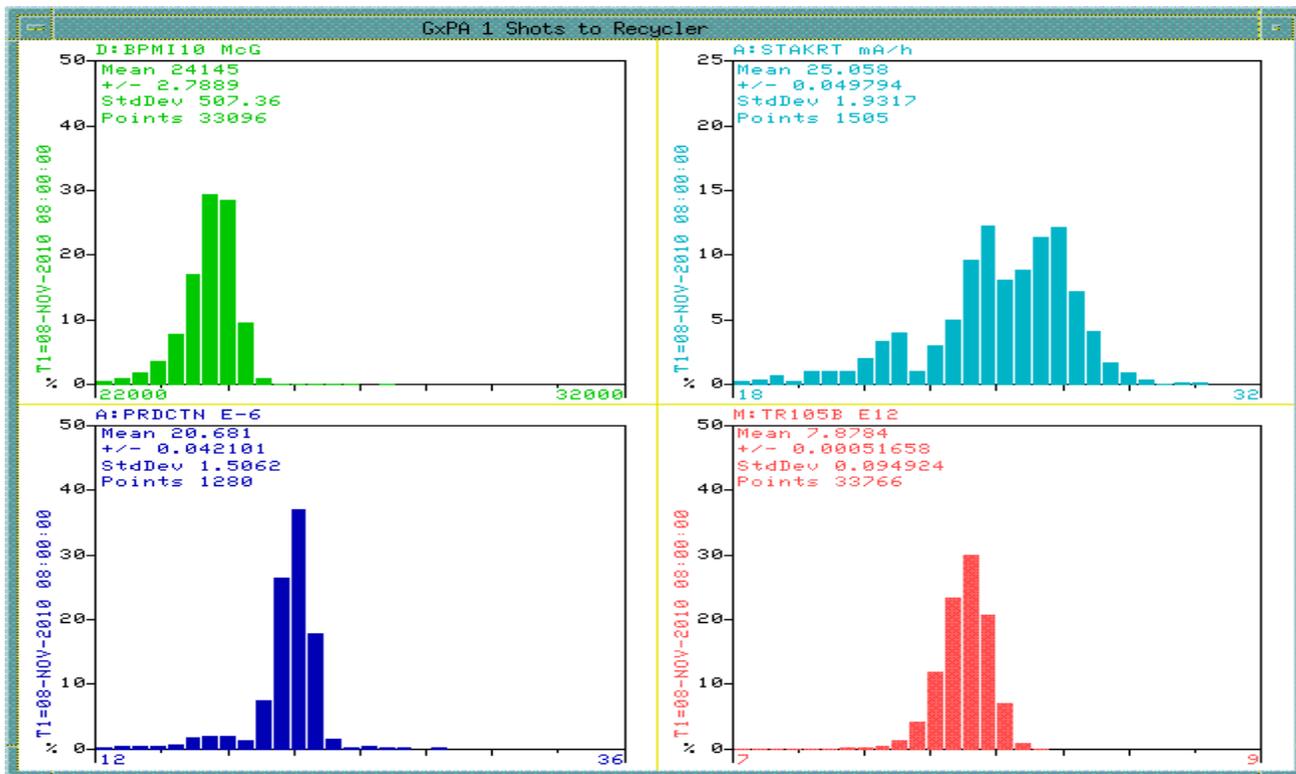
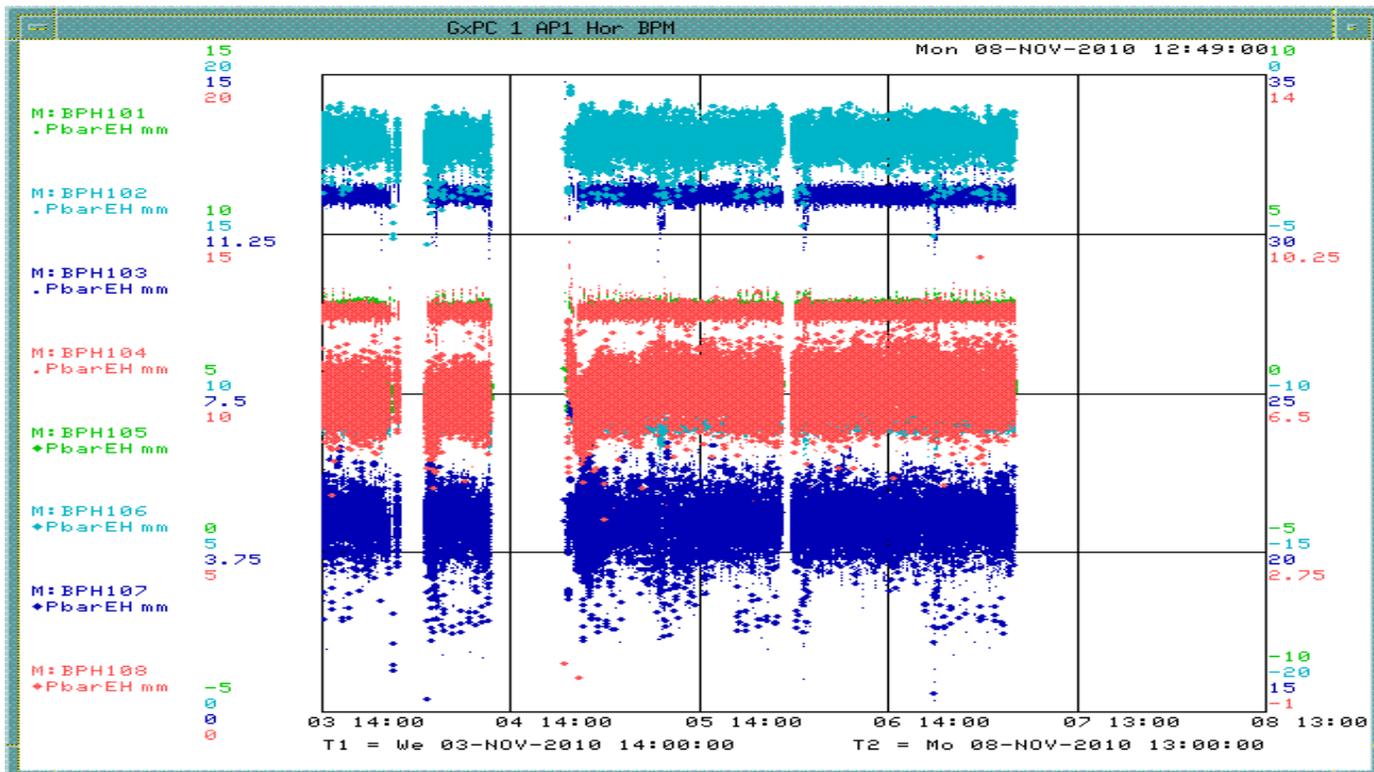
- Stacking
 - Pbars stacked: 554.02 E10
 - Time stacking: 23.76 Hr
 - Average stacking rate: 23.32 E10/Hr
- Uptime
 - Number of pulses while in stacking mode: 35714
 - Number of pulses with beam: 34479
 - Fraction of up pulses was: 96.54%
- The uptime's effect on the stacking numbers
 - Corrected time stacking: 22.94 Hr
 - Possible average stacking rate: 24.15 E10/Hr
 - Could have stacked: 573.86 E10/Hr
- Recycler Transfers
 - Pbars sent to the Recycler: 527.10 E10
 - Number of transfers : 68
 - Number of transfer sets: 23
 - Average Number of transfer per set: 2.96
 - Time taken to shoot including reverse proton tuneup: 00.24 Hr
 - Transfer efficiency: 96.06%
- Other Info
 - Average POT : 7.88 E12

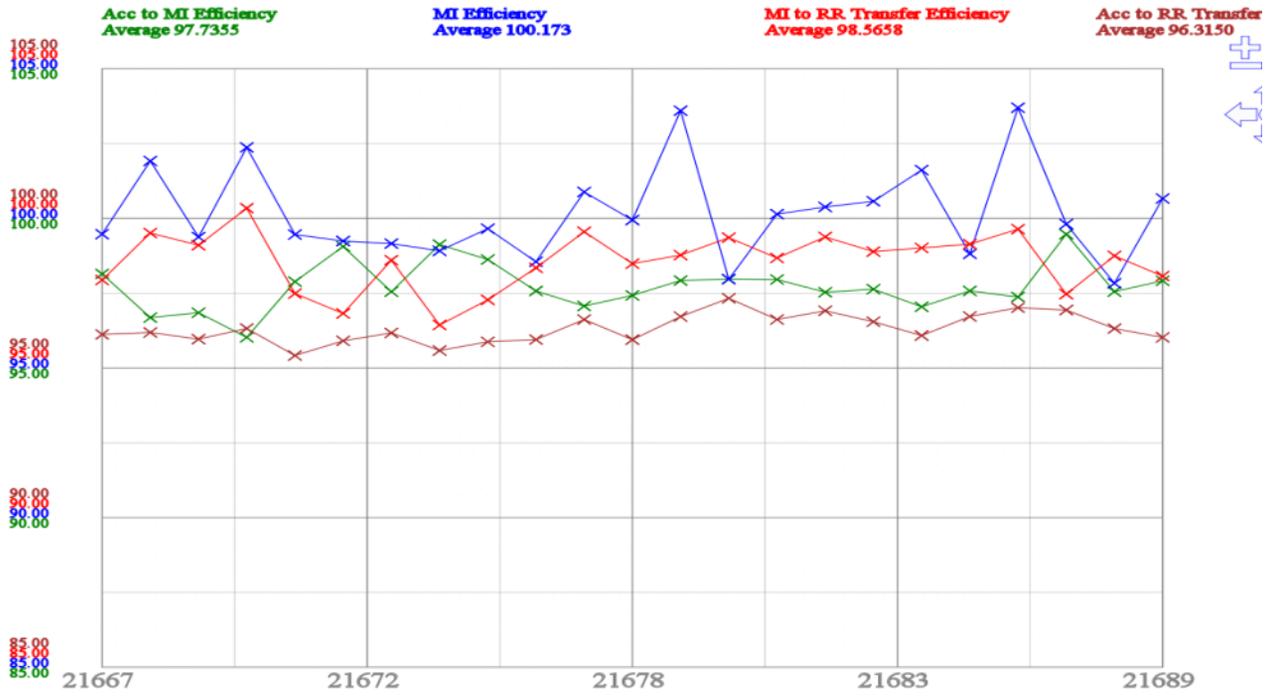
- Average production: 20.40 pbars/E6 protons

Plots









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	Trans fers	Sets	Column 5 Number_ 4_Acc Horizont al Emittanc e	Column 6 Number _5_Acc Vertical Emittanc e	Column 8 Number _7_Acc Longitu dinal Emittanc e	
Totals =>				538.29			517.68	96.17%	97.78%	97.72%	95.55%	69	23	5.1049	2.5465	1.9227	
Daily Average =>				538.29			517.68					69	23				
21689	Tuesday, November 09, 2010	6:13	27.60	7.43	22.81	263.47	285.20	21.90	96.00%	98.04%	98.70%	96.77%	3	1	5.122	2.709	1.988
21688	Tuesday, November 09, 2010	5:17	28.48	7.62	23.45	241.54	263.95	22.58	96.31%	97.78%	95.49%	93.37%	3	1	5.106	2.61	1.841
21687	Tuesday, November 09, 2010	4:13	29.36	6.51	24.80	218.20	242.04	24.00	96.79%	99.09%	98.92%	98.03%	3	1	5.117	2.465	1.904
21686	Tuesday, November 09, 2010	3:11	27.13	6.64	23.10	196.33	218.56	22.40	96.98%	97.53%	100.30%	97.83%	3	1	4.782	2.38	1.943
21685	Tuesday, November 09, 2010	2:17	27.24	7.62	22.08	175.35	196.59	21.37	96.76%	97.74%	96.68%	94.49%	3	1	4.955	2.485	1.922
21684	Tuesday, November 09, 2010	1:19	31.62	8.53	25.73	151.06	175.61	24.72	96.08%	97.08%	97.73%	94.88%	3	1	5.378	2.753	1.924
21683	Tuesday, November 09, 2010	0:23	28.08	11.17	18.19	133.82	151.29	17.54	96.46%	97.66%	98.05%	95.76%	2	1	5.126	2.586	1.94
21682	Monday, November 08, 2010	23:26	25.20	6.47	21.13	113.67	134.01	20.46	96.81%	97.76%	97.29%	95.11%	3	1	4.746	2.454	1.973
21681	Monday, November 08, 2010	22:35	25.20	7.04	20.84	93.83	113.84	20.13	96.56%	98.56%	98.70%	97.27%	3	1	5.116	2.567	1.967
21680	Monday, November 08, 2010	21:40	25.24	4.80	21.85	72.81	93.95	21.25	97.28%	98.27%	96.44%	94.77%	3	1	4.26	2.211	1.858
21679	Monday, November 08, 2010	20:45	25.23	5.38	21.70	52.00	72.92	21.00	96.79%	97.89%	100.64%	98.51%	3	1	4.488	2.359	1.936
21678	Monday, November 08, 2010	19:50	45.67	5.43	43.67	10.88	52.15	41.62	95.31%	97.25%	96.64%	93.98%	4	1	6.039	2.836	1.816
21677	Monday, November 08, 2010	17:52	25.41	6.71	21.17	335.35	355.55	20.43	96.51%	97.15%	97.69%	94.91%	3	1	4.954	2.531	1.898
21676	Monday, November 08, 2010	16:53	25.33	6.25	21.62	315.46	336.02	20.76	96.02%	97.87%	96.49%	94.44%	3	1	5.037	2.441	1.956
21675	Monday, November 08, 2010	16:03	27.28	7.18	22.77	294.39	315.98	21.80	95.77%	98.70%	98.10%	96.83%	3	1	5.09	2.459	1.956
21674	Monday, November 08, 2010	15:02	28.71	7.31	24.30	271.92	294.93	23.17	95.35%	98.86%	97.75%	96.63%	3	1	5.51	2.721	1.945
21673	Monday, November 08, 2010	13:54	26.95	6.08	23.21	250.37	272.45	22.28	95.99%	97.22%	96.82%	94.13%	3	1	4.908	2.548	1.923
21672	Monday, November 08, 2010	12:52	27.07	6.57	23.00	228.89	250.75	22.02	95.73%	98.90%	98.24%	97.16%	3	1	5.44	2.571	1.908
21671	Monday, November 08, 2010	11:54	27.34	7.06	22.84	207.60	229.26	21.76	95.25%	97.85%	97.57%	95.47%	3	1	5.097	2.51	1.955
21670	Monday, November 08, 2010	10:58	27.45	7.49	22.49	186.39	207.91	21.66	96.30%	96.29%	98.15%	94.51%	3	1	5.314	2.804	1.842
21669	Monday, November 08, 2010	9:58	26.43	6.51	22.43	165.30	186.66	21.49	95.81%	96.78%	96.27%	93.17%	3	1	5.087	2.538	1.922
21668	Monday, November 08, 2010	8:53	27.94	7.01	23.46	143.12	165.52	22.54	96.08%	96.97%	98.65%	95.66%	3	1	5.379	2.466	1.957
21667	Monday, November 08, 2010	7:53	25.44	6.34	21.68	122.62	143.36	20.82	96.03%	98.09%	97.13%	95.27%	3	1	5.362	2.565	1.949