

2010-11-15 Monday Morning Notes

Monday, November 15, 2010

7:43 AM

Stacking and Transfers

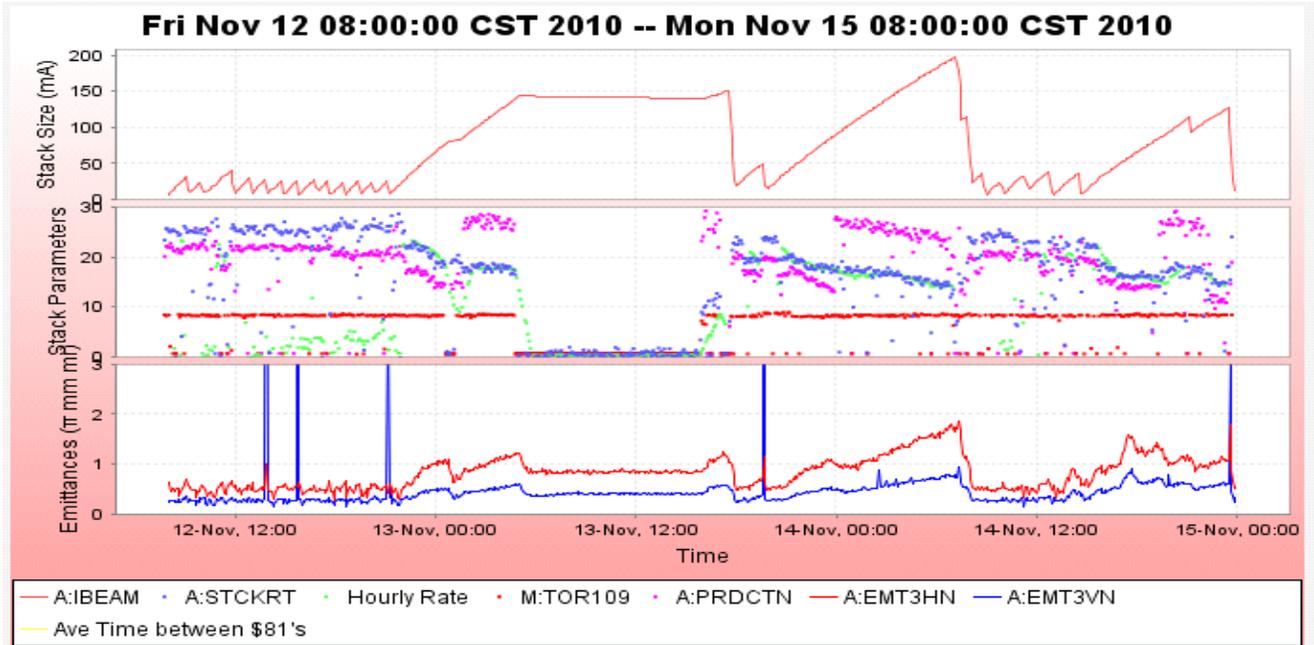
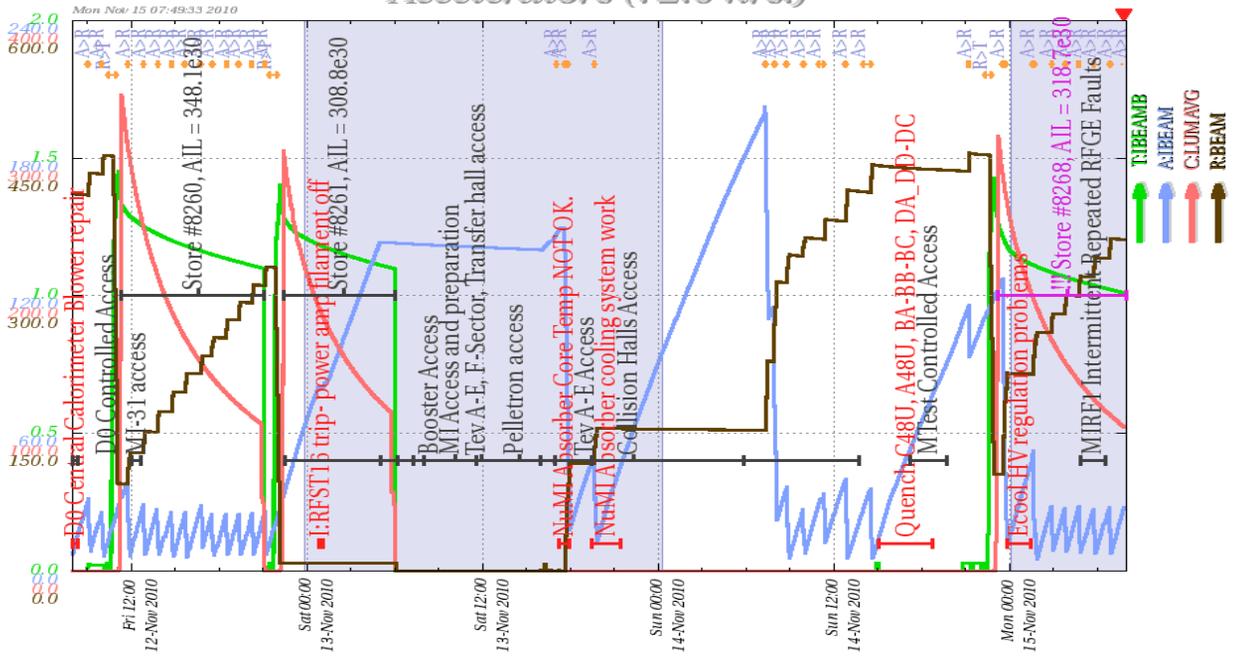
- Saturday MI access
- More Pellatron downtime
- Big stacks
- Some \$29-only time
- Stacking numbers
 - <stacking rate> = 19.3 mA/hr
 - <production>=19.5 pbar/Mp
 - <beam on target>=8.00E12
- Unstacking numbers
 - Unstacked 1138E10 in 103 transfers over 31 sets with an overall efficiency of 93.5%
 - Averaged 379E10 unstacked with 34 transfers over 10 sets per day.

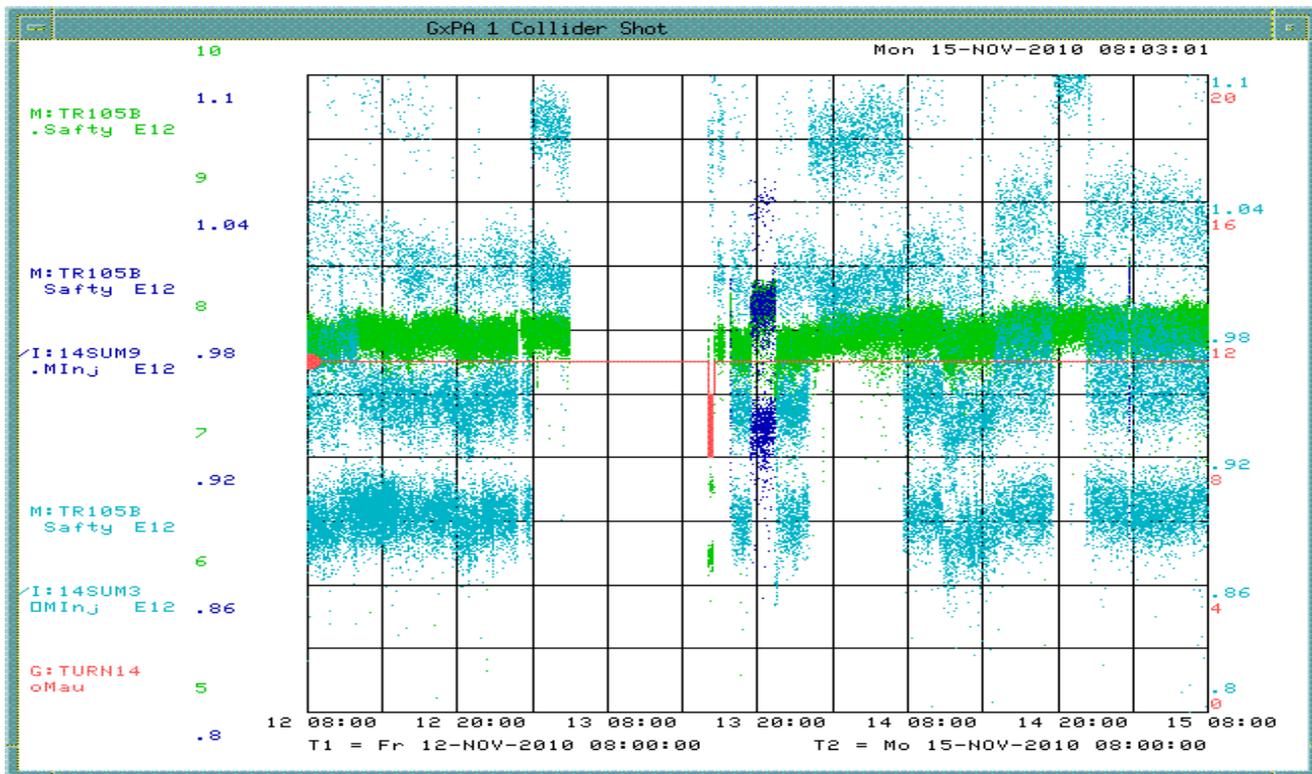
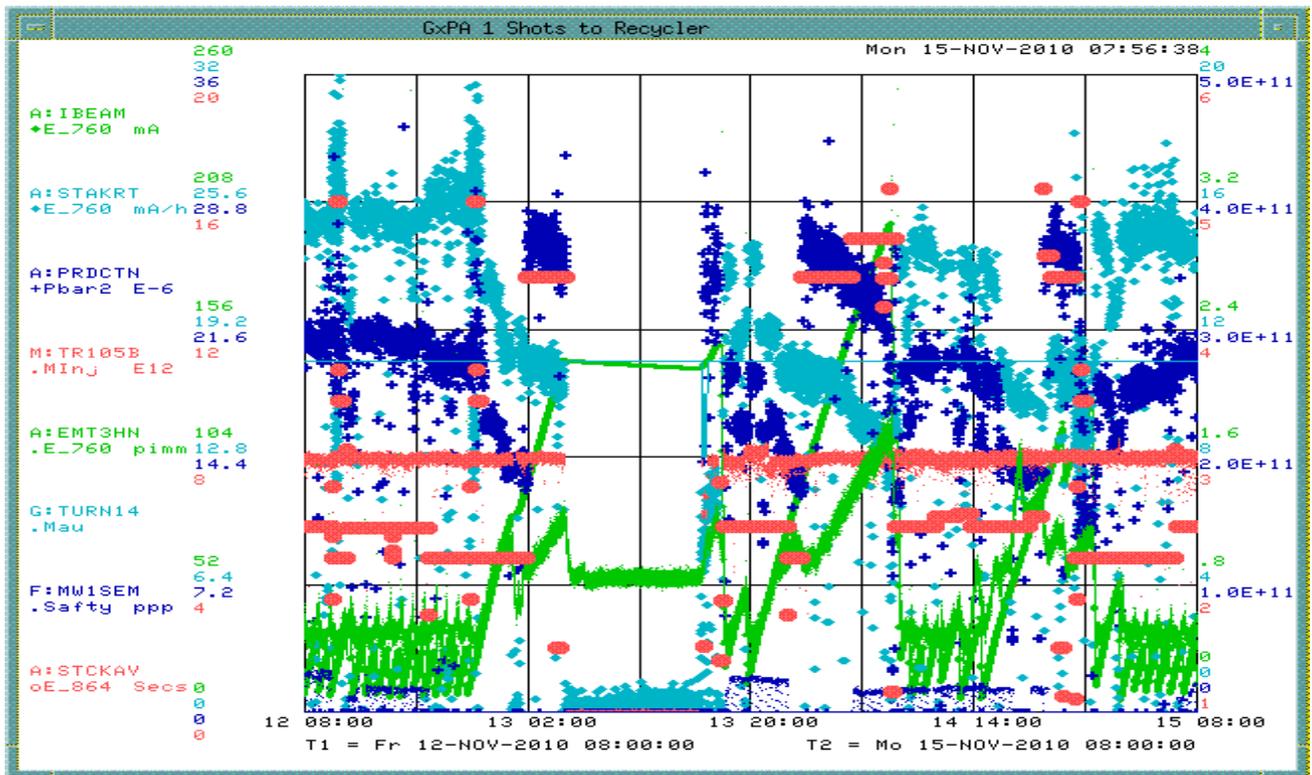
Numbers

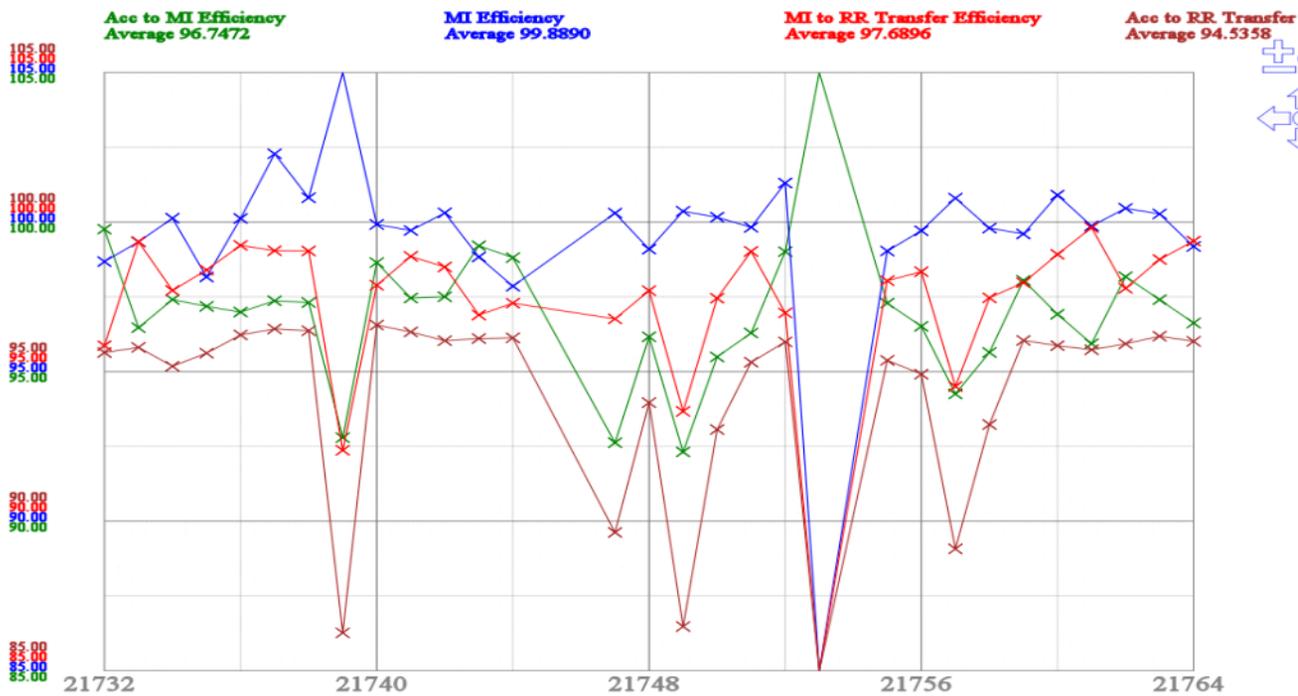
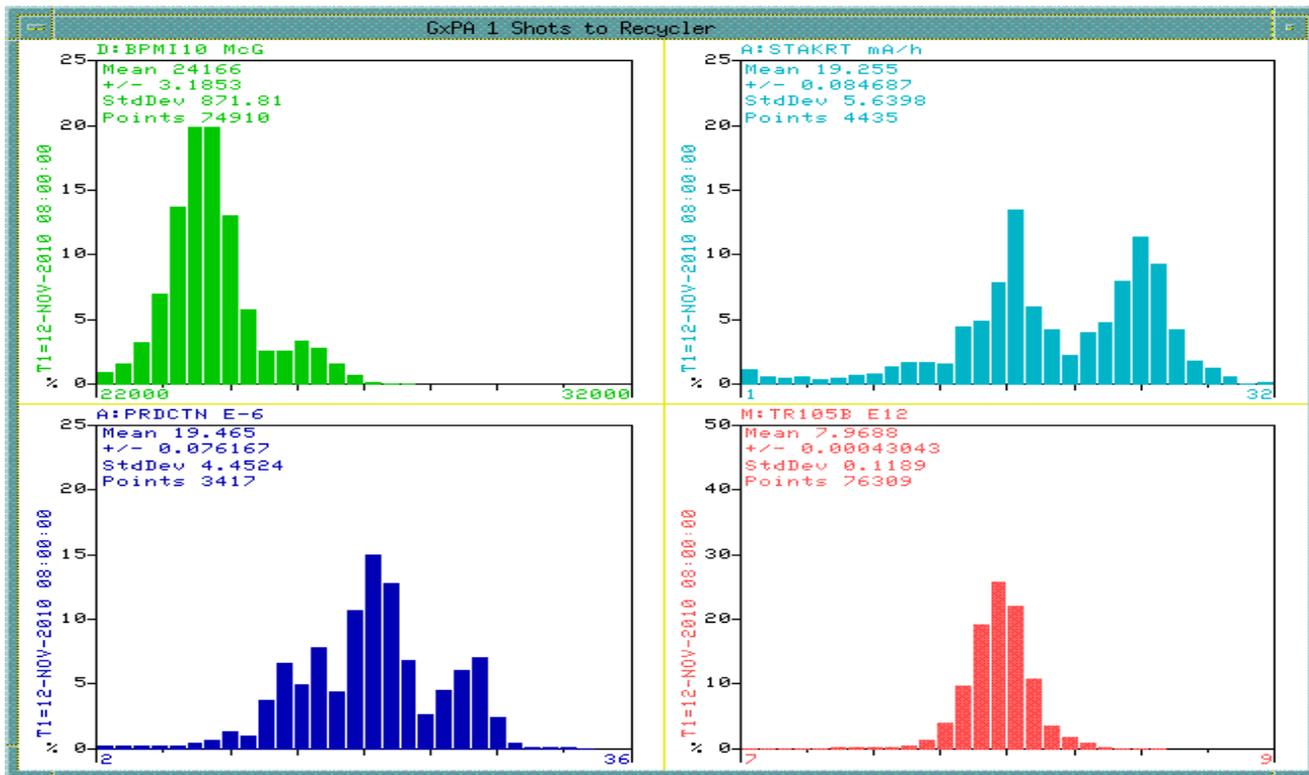
- Stacking
 - Pbars stacked: 1138.94 E10
 - Time stacking: 60.76 Hr
 - Average stacking rate: 18.75 E10/Hr
- Uptime
 - Number of pulses while in stacking mode: 79578
 - Number of pulses with beam: 75966
 - Fraction of up pulses was: 95.46%
- The uptime's effect on the stacking numbers
 - Corrected time stacking: 58.00 Hr
 - Possible average stacking rate: 19.64 E10/Hr
 - Could have stacked: 1193.10 E10/Hr
- Recycler Transfers
 - Pbars sent to the Recycler: 1121.72 E10
 - Number of transfers : 101
 - Number of transfer sets: 31
 - Average Number of transfer per set: 3.26
 - Time taken to shoot including reverse proton tuneup: 00.35 Hr
 - Transfer efficiency: 93.06%
- Other Info
 - Average POT : 7.96 E12
 - Average production: 18.83 pbars/E6 protons

Plots

Accelerators (72.0 hrs.)







Column 1 Number_0_Pbar Transfer Shot #	Column 4 Number_3_Transfer Time	Column 21 Number_20_A1 BEAMB sampled on #91 (A:BEAM7). E10	Column 22 Number_21_A1 BEAMB sampled on #94 (A:BEAM9). E10	Unstacked (mA)	Column 23 Number_22_R: BEAMS (R:BEAM0[0]) pre fer E10	Column 24 Number_23_R: BEAM (R:BEAM0[1]) post fer, 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 =>				1138.04			1063.58	93.46%	96.04%	95.84%	92.04%	103	31	6.0034	3.1511	1.8394	
Daily Average =>				379.35			354.53					34	10				
21764	Monday, November 15, 2010	6:50	27.90	7.40	22.94	340.73	362.47	22.02	95.98%	96.59%	96.16%	92.88%	3	1	4.869	2.897	2.008
21763	Monday, November 15, 2010	5:46	27.43	7.47	22.31	320.48	341.67	21.47	96.21%	97.63%	97.58%	95.27%	3	1	4.8	3.036	2.011
21762	Monday, November 15, 2010	4:45	28.37	8.18	22.53	299.92	321.32	21.62	95.98%	97.47%	97.80%	95.32%	3	1	4.872	2.749	2.019
21761	Monday, November 15, 2010	3:47	27.45	8.37	21.54	280.18	300.59	20.66	95.90%	96.13%	95.93%	92.21%	3	1	5.071	3.093	2.04
21760	Monday, November 15, 2010	2:52	28.40	8.77	22.07	259.69	280.70	21.16	95.85%	97.10%	97.61%	94.78%	3	1	5.056	3.083	2.023
21759	Monday, November 15, 2010	1:38	49.72	4.74	48.13	214.65	260.28	46.17	95.93%	97.84%	97.29%	95.19%	4	1	5.567	2.574	1.904
21758	Sunday, November 14, 2010	23:32	127.43	10.77	121.32	105.64	215.88	112.44	92.68%	95.40%	95.15%	90.78%	7	1	7.723	3.928	1.692
21757	Sunday, November 14, 2010	21:15	115.98	93.33	22.65	435.69	455.86	20.18	89.08%	94.26%	95.01%	85.55%	1	1	10.667	5.753	1.11
21756	Sunday, November 14, 2010	14:31	35.94	5.07	32.78	412.74	443.01	30.90	94.25%	96.60%	96.46%	93.18%	3	1	6.443	3.631	1.862
21755	Sunday, November 14, 2010	12:49	40.14	5.44	36.41	381.23	415.39	34.64	95.14%	96.98%	96.34%	93.43%	3	1	5.265	2.764	1.857
21753	Sunday, November 14, 2010	11:06	31.94	12.56	22.74	362.07	383.18	21.70	95.43%	97.92%	97.01%	94.99%	3	1	5.319	3.02	1.322
21752	Sunday, November 14, 2010	9:54	27.01	7.58	21.89	343.14	363.73	21.02	96.02%	98.71%	99.70%	98.41%	3	1	4.995	2.767	2.016
21751	Sunday, November 14, 2010	8:49	36.87	5.58	33.25	314.07	345.07	31.55	94.90%	96.77%	96.41%	93.30%	3	1	4.644	2.479	1.885
21750	Sunday, November 14, 2010	7:52	115.21	21.86	96.81	228.11	316.02	89.88	92.84%	95.45%	95.66%	91.30%	5	1	8.506	3.986	1.625
21749	Sunday, November 14, 2010	7:20	199.44	110.13	90.13	153.32	229.59	78.01	86.55%	92.36%	92.69%	85.61%	4	1	15.396	6.568	1.182
21748	Saturday, November 13, 2010	19:40	50.88	11.54	41.38	117.24	155.64	38.73	93.58%	95.97%	95.22%	91.38%	3	1	6.161	3.23	1.87
21747	Saturday, November 13, 2010	17:38	149.68	17.83	133.73	0.44	118.15	119.56	89.40%	92.59%	92.78%	85.90%	7	1	8.16	3.86	1.56
21744	Friday, November 12, 2010	21:07	26.12	7.08	21.66	311.37	331.93	20.81	96.11%	98.85%	97.15%	96.02%	3	1	5.236	2.729	2.006
21743	Friday, November 12, 2010	20:15	24.98	6.99	20.59	292.40	311.93	19.78	96.05%	98.75%	97.46%	96.25%	3	1	5.275	2.74	2.013
21742	Friday, November 12, 2010	19:20	24.60	6.74	20.42	273.52	292.94	19.59	95.95%	97.78%	98.19%	96.01%	3	1	5.313	2.862	2.012
21741	Friday, November 12, 2010	18:28	25.10	6.66	20.93	254.05	273.98	20.12	96.11%	97.81%	96.64%	94.52%	3	1	5.324	2.82	2.023
21740	Friday, November 12, 2010	17:31	24.91	6.10	21.37	234.10	254.50	20.60	96.41%	98.38%	98.52%	96.92%	3	1	4.891	2.9	1.986
21739	Friday, November 12, 2010	16:40	26.12	9.85	20.20	215.39	234.55	19.34	95.72%	97.39%	97.61%	95.07%	3	1	4.719	2.525	1.301
21738	Friday, November 12, 2010	15:42	25.70	6.10	22.13	194.57	215.67	21.33	96.36%	97.56%	98.21%	95.82%	3	1	4.997	2.648	1.994
21737	Friday, November 12, 2010	14:46	25.94	5.82	22.46	173.33	194.87	21.63	96.32%	97.64%	98.88%	96.54%	3	1	5.208	2.571	1.975
21736	Friday, November 12, 2010	13:47	27.30	7.01	22.91	151.72	173.57	22.03	96.16%	97.10%	97.47%	94.65%	3	1	5.165	2.672	2.006
21735	Friday, November 12, 2010	12:50	29.04	6.97	24.68	128.51	151.96	23.58	95.54%	97.52%	95.68%	93.31%	3	1	5.19	2.586	1.978
21734	Friday, November 12, 2010	11:47	39.97	6.48	35.67	95.22	128.81	33.82	94.80%	97.52%	97.10%	94.70%	3	1	5.218	2.717	1.88
21733	Friday, November 12, 2010	10:00	25.87	6.41	22.04	432.76	453.44	21.13	95.86%	96.78%	95.69%	92.61%	3	1	5.146	2.761	1.987
21732	Friday, November 12, 2010	9:05	31.80	8.32	26.00	409.76	434.13	24.84	95.54%	99.43%	98.12%	97.56%	3	1	5.793	2.907	1.933
21731	Friday, November 12, 2010	7:51	28.81	6.43	24.36	388.44	411.37	23.32	95.73%	97.93%	95.42%	93.44%	3	1	5.117	2.828	1.941