

2011-02-14 Monday Morning Notes

Monday, February 14, 2011
7:21 AM

Stacking and Transfers

- Stacked 26.4mA/hr with a production of 21.87 pbars/Mp with 7.47 Tp on target.
- Unstacked 1437mA (479mA/day) in 167 transfers (56/day) in 54 sets (18/day) with an overall efficiency of 95.3%.

Interesting Happenings:

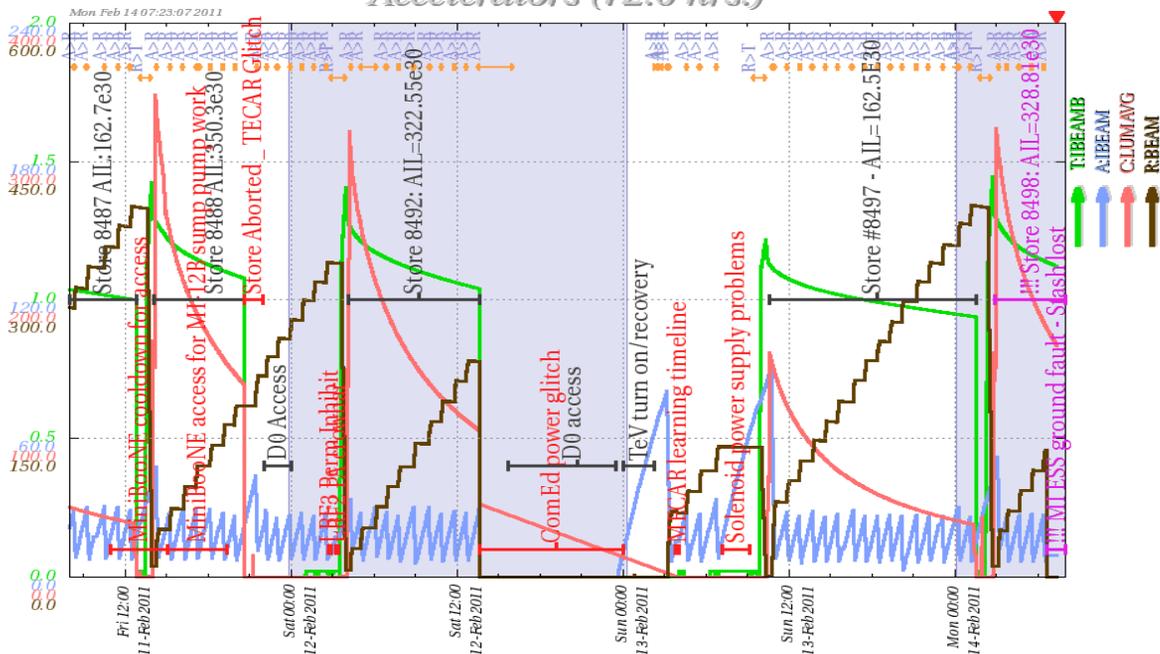
- Glitch!!!
 - D:QS925 had no output. Set output to zero and knobbed it back up.
 - D:BS103 died. Replacing the C054 card did not fix the problem. The shunt was loading down the Camac 054 card, and required a tunnel access to repair.
 - A:IKIK tripped. The digital status showed low level tank 1 indication; however, this was not the problem. The timer on A:IKIK module #1 did not fully timeout after 15 minutes. The red timer knob had to be manually rotated fully counter clockwise to zero.
 - A:QTPSI had 57 -52 (generic GPIB) errors. Power cycled the pbar-gpib-05 ENET box in rack A16R03, then rebooted AP1001.

Numbers

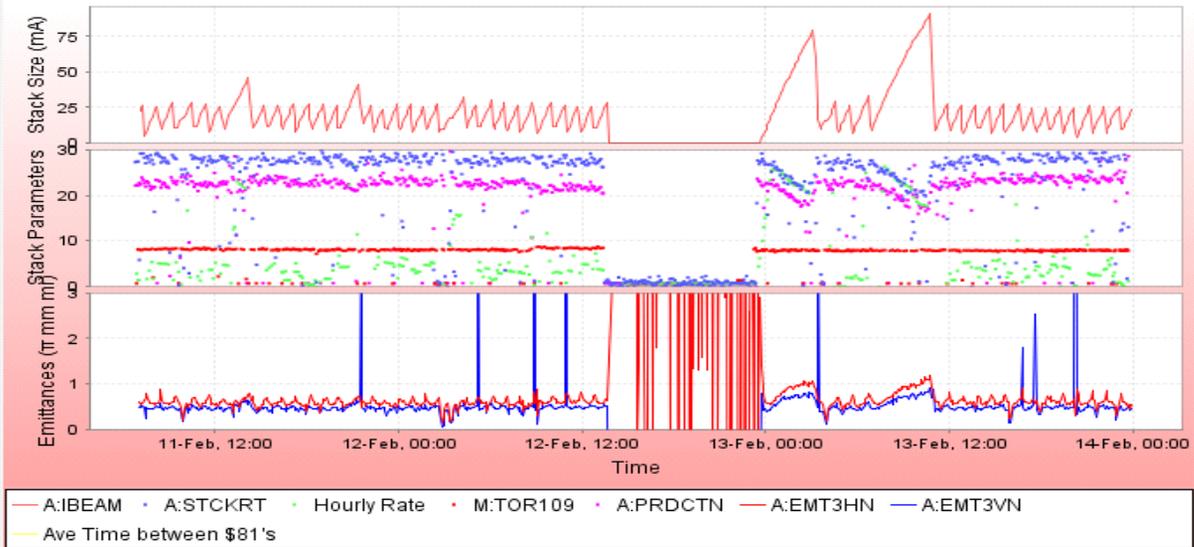
- Stacking
 - Pbars stacked: 1481.18 E10
 - Time stacking: 68.50 Hr
 - Average stacking rate: 21.62 E10/Hr
- Uptime
 - Number of pulses while in stacking mode: 99140
 - Number of pulses with beam: 92206
 - Fraction of up pulses was: 93.01%
- The uptime's effect on the stacking numbers
 - Corrected time stacking: 63.71 Hr
 - Possible average stacking rate: 23.25 E10/Hr
 - Could have stacked: 1592.57 E10/Hr
- Recycler Transfers
 - Pbars sent to the Recycler: 1447.55 E10
 - Number of transfers : 170
 - Number of transfer sets: 56
 - Average Number of transfer per set: 3.04
 - Time taken to shoot including reverse proton tuneup: 00.60 Hr
 - Transfer efficiency: 94.86%
- Other Info
 - Average POT : 7.47 E12
 - Average production: 21.50 pbars/E6 protons

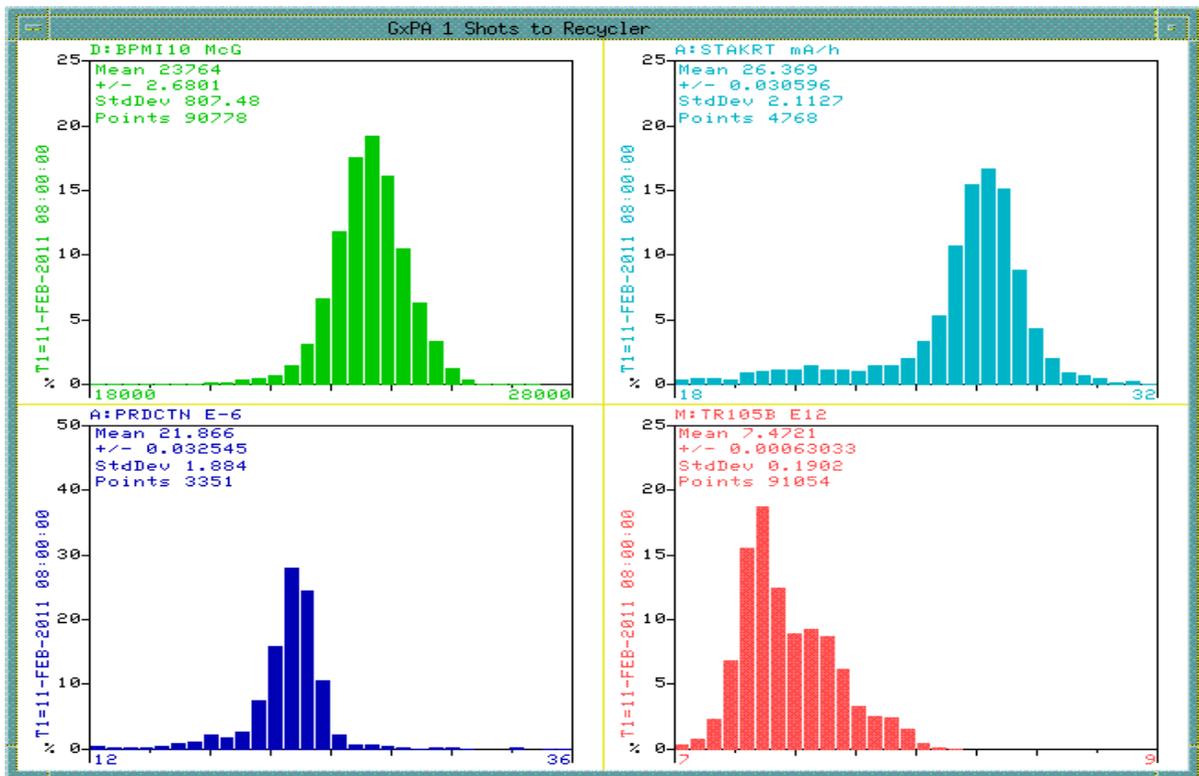
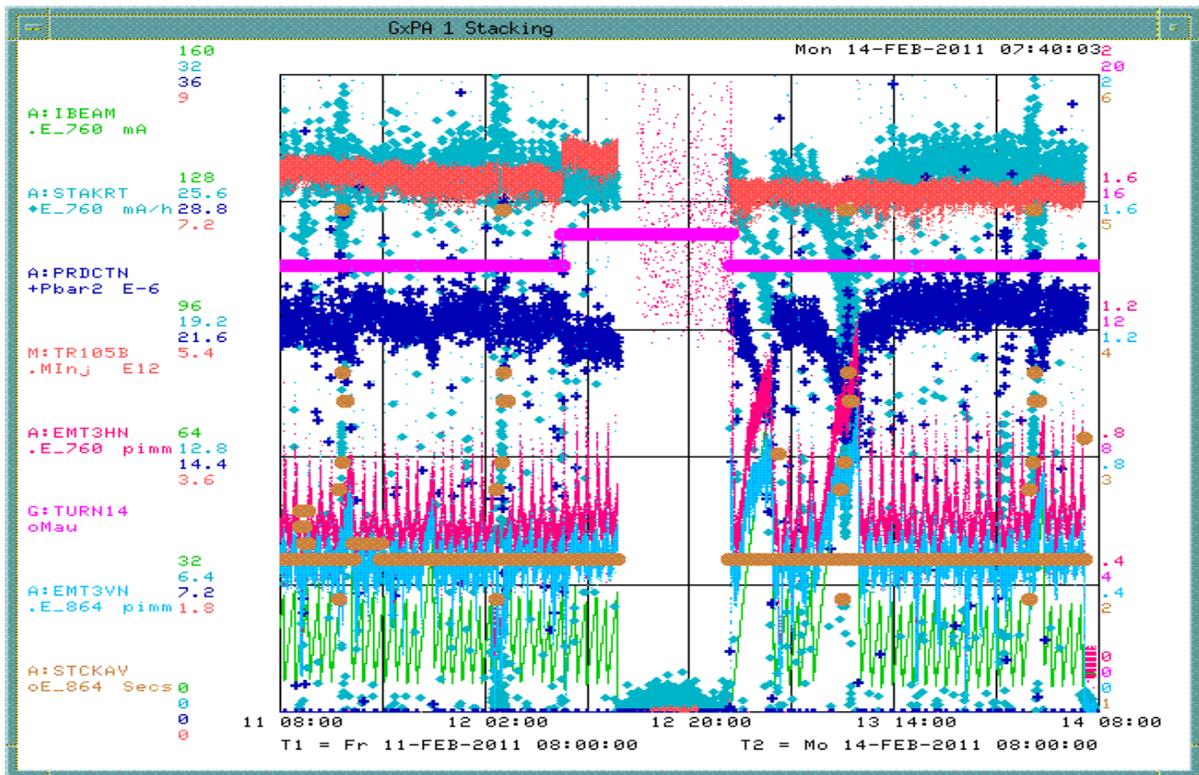
Plots

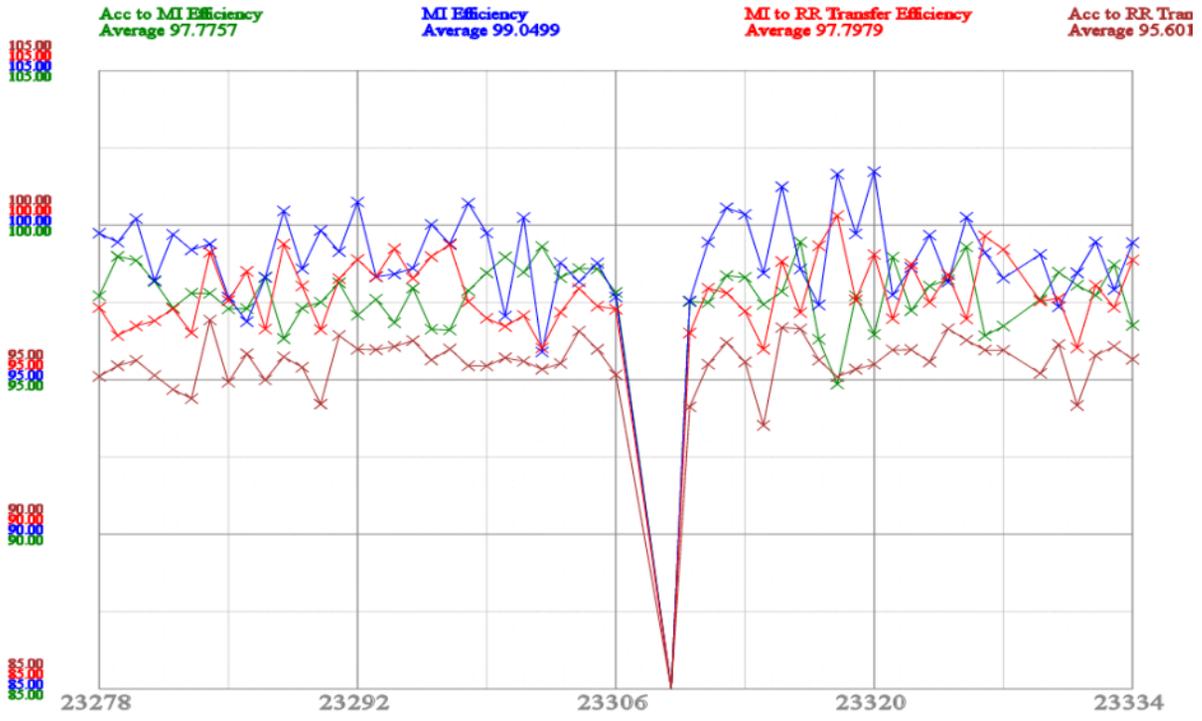
Accelerators (72.0 hrs.)



Fri Feb 11 07:00:00 CST 2011 -- Mon Feb 14 07:00:00 CST 2011







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 fer E10	Column 24 Number _23_R: BEAM (R:BEA ME0[1]) post fer, 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 Horizontal Emittance	Column 6 Number _5_Acc Vertical Emittance	Column 8 Number _7_Acc Longitudi nal Emittance	
Totals =>				1436.96			1368.79	95.26%	97.84%	96.80%	94.71%	167	54	6.0771	4.6279	1.9477	
Daily Average =>				478.99			456.26					56	18				
23334	Monday, February 14, 2011	5:33	27.10	6.63	23.22	93.59	115.63	22.20	95.59%	96.99%	96.49%	93.59%	3	1	6.213	4.689	1.968
23333	Monday, February 14, 2011	4:40	26.84	6.22	23.31	71.70	93.89	22.42	96.21%	99.14%	97.16%	96.32%	3	1	6.031	4.643	1.943
23332	Monday, February 14, 2011	3:46	26.30	6.36	22.65	50.34	71.92	21.67	95.71%	97.83%	97.87%	95.75%	3	1	6.308	4.627	1.943
23331	Monday, February 14, 2011	3:07	52.09	11.79	42.61	11.65	50.90	39.93	93.72%	98.03%	96.12%	94.23%	3	1	7.382	5.728	1.822
23330	Monday, February 14, 2011	1:06	26.42	6.57	22.62	381.98	403.03	21.73	96.07%	98.40%	96.37%	94.83%	3	1	6.204	4.73	1.945
23329	Monday, February 14, 2011	0:15	30.23	6.50	26.49	358.76	383.51	25.25	95.23%	97.89%	97.20%	95.16%	3	1	5.977	4.561	1.935
23327	Sunday, February 13, 2011	23:06	26.29	6.40	22.62	339.33	360.57	21.66	95.77%	96.85%	94.94%	91.95%	3	1	5.91	4.559	1.965
23326	Sunday, February 13, 2011	22:07	26.45	6.54	22.60	319.40	340.67	21.67	95.92%	97.46%	96.25%	93.80%	3	1	6.294	4.758	1.966
23325	Sunday, February 13, 2011	21:13	27.05	6.09	23.52	298.24	320.48	22.64	96.25%	99.31%	99.50%	98.81%	3	1	5.859	4.552	1.965
23324	Sunday, February 13, 2011	20:09	26.56	2.86	24.37	275.96	299.19	23.48	96.38%	98.46%	96.47%	94.99%	3	1	4.326	3.017	1.891
23323	Sunday, February 13, 2011	19:18	26.95	6.92	22.81	254.99	276.59	21.77	95.45%	98.19%	97.54%	95.77%	3	1	6.161	4.73	1.958
23322	Sunday, February 13, 2011	18:25	26.25	6.27	22.65	234.12	255.54	21.74	96.01%	97.88%	96.48%	94.44%	3	1	6.155	4.514	1.966
23321	Sunday, February 13, 2011	17:29	26.48	6.53	22.68	213.08	234.58	21.79	96.04%	98.63%	96.99%	95.66%	3	1	6.254	4.744	1.97
23320	Sunday, February 13, 2011	16:39	29.12	6.80	25.06	189.87	213.50	23.90	95.40%	97.15%	97.30%	95.02%	3	1	6.308	4.872	1.958
23319	Sunday, February 13, 2011	15:31	27.72	6.68	23.75	167.85	190.30	22.68	95.52%	97.78%	97.39%	95.23%	3	1	6.078	4.74	1.964
23318	Sunday, February 13, 2011	14:37	26.53	6.37	22.92	147.41	168.96	21.80	95.12%	95.74%	95.83%	91.75%	3	1	6.353	4.492	1.944
23317	Sunday, February 13, 2011	13:44	27.71	6.69	23.77	125.68	148.07	22.76	95.74%	96.92%	95.57%	92.62%	3	1	5.826	4.683	1.981
23316	Sunday, February 13, 2011	12:45	26.43	5.94	23.01	104.14	126.13	22.16	96.31%	99.28%	97.36%	96.66%	3	1	5.765	4.47	1.935
23315	Sunday, February 13, 2011	11:52	28.29	6.49	24.41	81.29	104.44	23.59	96.65%	98.23%	99.47%	97.71%	3	1	6.264	4.796	1.962
23314	Sunday, February 13, 2011	10:46	95.48	7.73	89.02	1.32	81.88	82.29	92.44%	97.46%	95.98%	93.55%	6	1	7.649	5.033	1.791
23313	Sunday, February 13, 2011	6:46	33.81	7.94	28.39	115.01	141.56	27.04	95.26%	98.30%	98.61%	96.93%	3	1	6.572	4.872	1.932
23312	Sunday, February 13, 2011	5:32	27.40	6.43	23.59	93.01	115.33	22.67	96.10%	98.37%	98.68%	97.07%	3	1	6.086	4.391	1.961
23311	Sunday, February 13, 2011	4:35	29.43	6.68	25.30	69.30	93.24	24.17	95.53%	97.66%	96.14%	93.89%	3	1	6.203	4.675	1.944
23310	Sunday, February 13, 2011	3:12	88.03	6.60	79.64	0.05	71.68	74.32	93.32%	97.38%	95.30%	92.81%	6	1	6.703	5.098	1.855
23309	Sunday, February 13, 2011	2:46	72.63	72.62	0.01	0.06	0.06	-0.01	-54.55%	-1600.00%	145.45%	-2327.27%	1	1	8.791	7.1	
23306	Saturday, February 12, 2011	12:41	27.85	7.14	23.38	212.23	234.25	22.27	95.26%	97.72%	96.34%	94.15%	3	1	6.125	4.65	1.994
23305	Saturday, February 12, 2011	11:48	28.61	7.21	23.96	190.04	212.77	23.06	96.24%	98.32%	97.52%	95.88%	3	1	6.394	4.695	1.969
23304	Saturday, February 12, 2011	10:52	27.49	6.71	23.46	168.26	190.55	22.63	96.45%	98.54%	96.22%	94.81%	3	1	5.798	4.158	1.952
23303	Saturday, February 12, 2011	10:00	30.50	7.40	25.79	144.41	168.64	24.62	95.47%	98.36%	96.83%	95.24%	3	1	5.952	4.718	1.947
23302	Saturday, February 12, 2011	8:53	30.52	5.72	26.90	119.29	144.73	25.68	95.47%	98.71%	95.38%	94.15%	3	1	5.593	4.108	1.884
23301	Saturday, February 12, 2011	7:46	26.42	6.24	22.55	98.04	119.54	21.64	95.96%	98.54%	97.88%	96.45%	3	1	5.61	3.994	1.964
23300	Saturday, February 12, 2011	6:56	28.25	7.52	23.47	76.09	98.28	22.46	95.69%	98.48%	96.02%	94.56%	3	1	5.927	4.463	1.947
23299	Saturday, February 12, 2011	6:06	30.57	9.06	24.17	53.42	76.28	23.09	95.55%	98.57%	98.02%	96.61%	3	1	5.936	4.696	2.001
23298	Saturday, February 12, 2011	5:04	28.08	7.31	23.43	31.25	53.55	22.38	95.55%	98.00%	98.18%	96.22%	3	1	6.028	4.726	1.987
23297	Saturday, February 12, 2011	4:18	33.66	10.71	25.29	7.18	31.34	24.28	96.04%	96.77%	96.34%	93.23%	3	1	5.498	4.349	1.997
23296	Saturday, February 12, 2011	2:31	28.02	7.36	23.36	319.06	341.08	22.37	95.77%	97.10%	96.29%	93.50%	3	1	6.061	4.508	1.954
23295	Saturday, February 12, 2011	1:38	26.53	7.13	22.12	299.26	320.08	21.33	96.42%	97.87%	96.60%	94.54%	3	1	5.877	4.425	1.996
23294	Saturday, February 12, 2011	0:47	27.82	7.18	23.32	278.29	300.26	22.36	95.88%	97.35%	96.25%	93.70%	3	1	5.754	4.47	1.977
23293	Friday, February 11, 2011	23:55	27.41	7.89	22.33	257.98	279.07	21.42	95.93%	97.33%	95.89%	93.33%	3	1	5.81	4.549	2.007
23292	Friday, February 11, 2011	23:00	25.73	6.91	21.54	238.49	258.82	20.65	95.84%	97.38%	97.83%	95.26%	3	1	5.691	4.289	1.983
23291	Friday, February 11, 2011	22:12	26.86	7.10	22.57	217.76	239.17	21.74	96.30%	97.93%	97.05%	95.03%	3	1	5.729	4.187	1.966
23290	Friday, February 11, 2011	21:28	43.93	11.05	35.51	185.37	218.33	33.45	94.19%	97.53%	97.57%	95.16%	3	1	6.645	5.033	1.891
23289	Friday, February 11, 2011	19:56	26.79	6.93	22.54	164.71	185.95	21.53	95.51%	97.42%	95.97%	93.49%	3	1	5.549	4.272	1.933
23288	Friday, February 11, 2011	19:06	28.30	7.23	23.66	142.62	165.05	22.64	95.73%	96.52%	97.10%	93.73%	3	1	5.744	4.291	1.969
23287	Friday, February 11, 2011	18:09	29.40	7.73	24.40	119.99	142.95	23.23	95.17%	98.50%	97.07%	95.62%	3	1	5.735	4.31	1.96
23286	Friday, February 11, 2011	17:08	28.83	7.53	24.01	97.56	120.34	23.00	95.81%	97.46%	94.94%	92.53%	3	1	5.686	4.607	1.97
23285	Friday, February 11, 2011	16:13	30.17	7.49	25.46	73.88	97.86	24.16	94.89%	97.45%	95.20%	92.77%	3	1	5.712	4.485	1.938
23284	Friday, February 11, 2011	15:14	28.28	7.50	23.57	51.72	74.09	22.81	96.75%	97.87%	97.09%	95.03%	3	1	5.521	4.312	1.986
23283	Friday, February 11, 2011	14:15	48.24	8.34	43.73	11.51	52.17	41.11	94.00%	97.82%	97.06%	94.94%	4	1	6.574	5.003	1.907
23282	Friday, February 11, 2011	12:22	29.08	7.64	24.18	379.28	401.73	22.90	94.73%	97.44%	96.90%	94.42%	3	1	5.736	4.443	1.962
23281	Friday, February 11, 2011	11:28	30.64	7.69	25.72	356.95	380.90	24.55	95.48%	98.22%	96.57%	94.85%	3	1	5.964	4.396	1.932
23280	Friday, February 11, 2011	10:31	31.02	8.20	25.57	334.62	358.54	24.45	95.60%	98.65%	99.16%	97.83%	3	1	5.901	4.821	1.935
23279	Friday, February 11, 2011	9:16	30.27	7.33	25.69	312.36	336.42	24.53	95.50%	98.79%	97.88%	96.70%	3	1	5.814	4.568	1.904
23278	Friday, February 11, 2011	8:18	29.35	7.80	24.30	291.39	314.00	23.11	95.08%	97.86%	97.10%	95.03%	3	1	6.127	4.511	1.95