

2011-05-06 Friday Morning Notes

Friday, May 06, 2011
7:40 AM

Stacking and Transfers

- Stacked
- Unstacked 461mA in 58 transfers over 19 sets with an overall efficiency of 95.9%

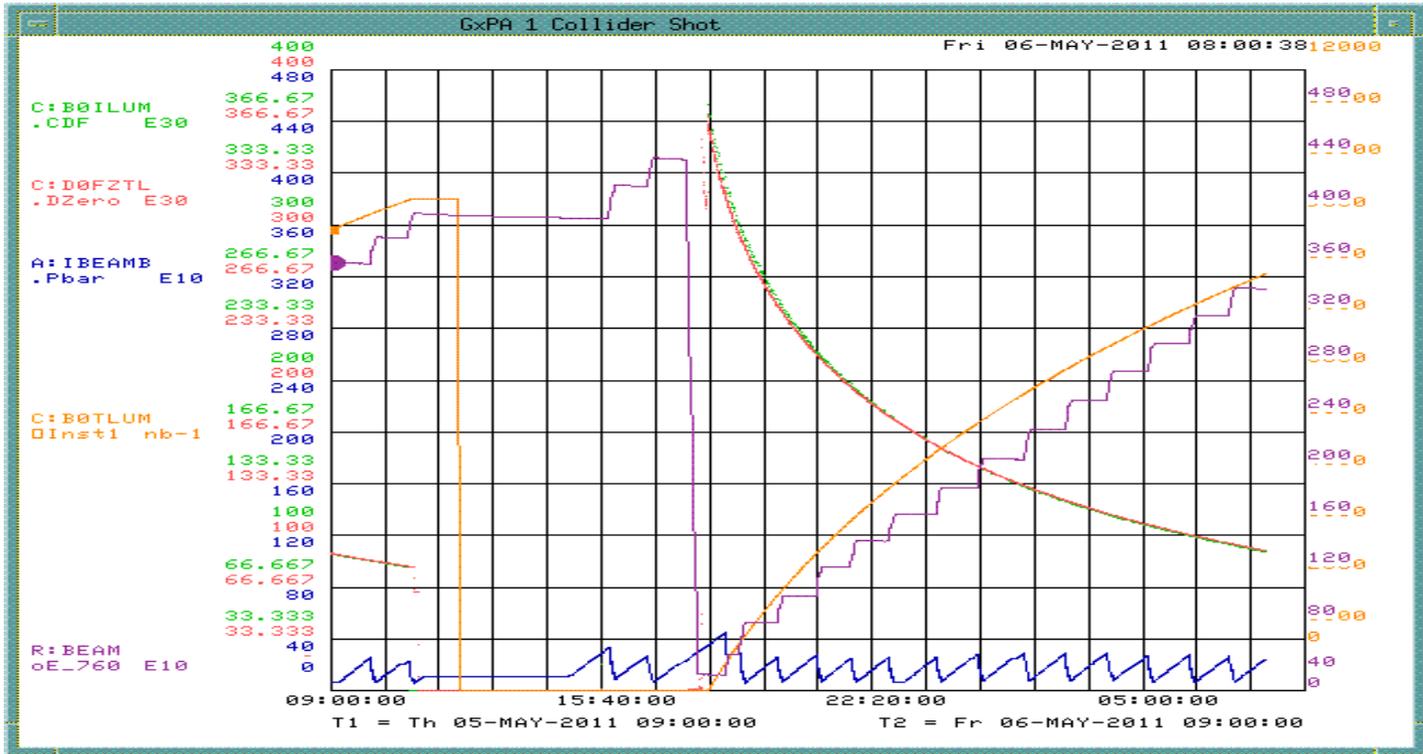
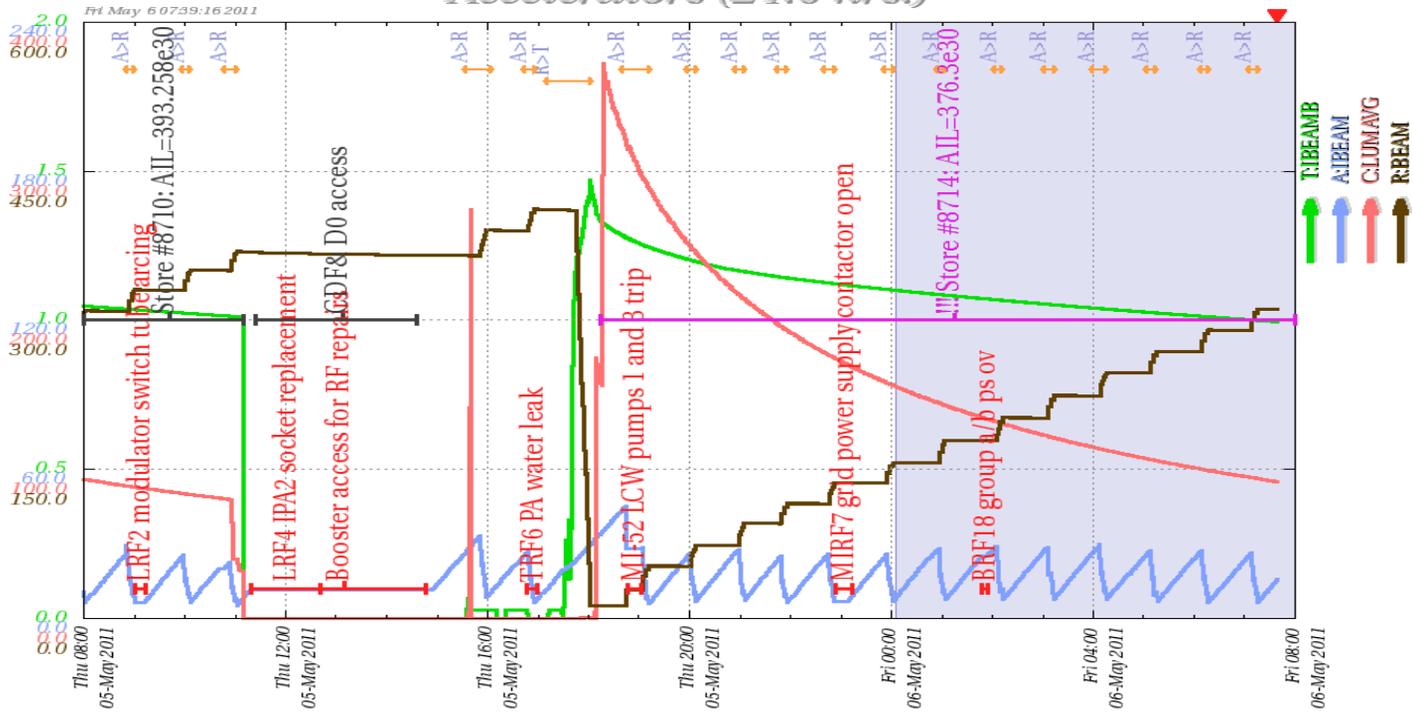
Operational Happenings

Numbers

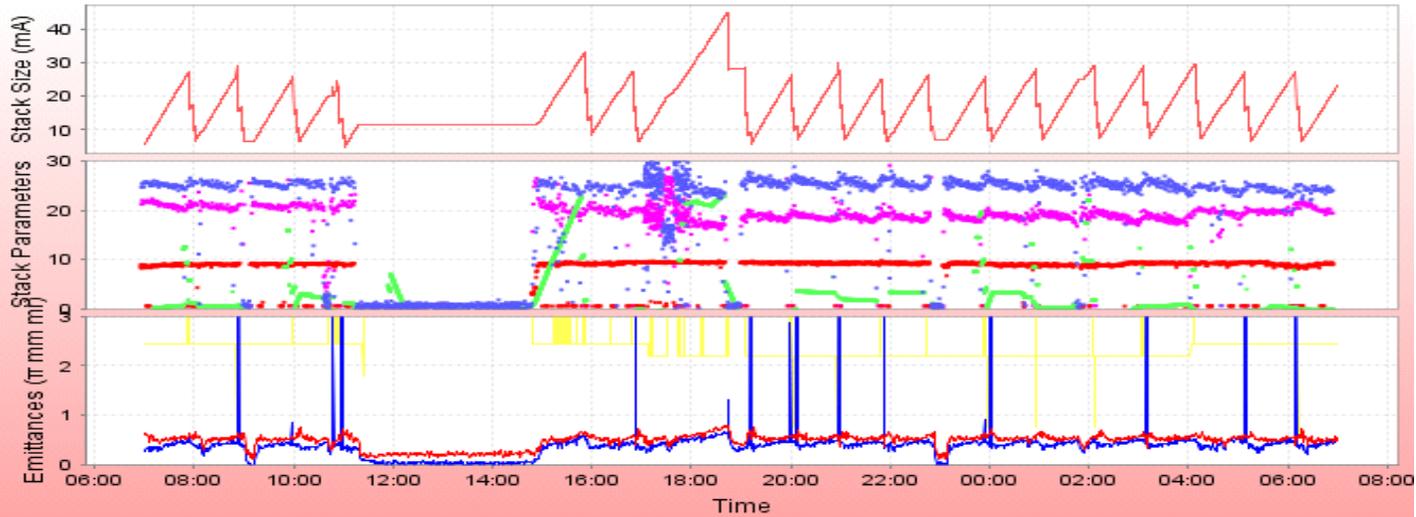
- Stacking
 - Pbars stacked: 463.40 E10
 - Time stacking: 20.42 Hr
 - Average stacking rate: 22.70 E10/Hr
- Uptime
 - Number of pulses while in stacking mode: 31219
 - Number of pulses with beam: 29121
 - Fraction of up pulses was: 93.28%
- The uptime's effect on the stacking numbers
 - Corrected time stacking: 19.05 Hr
 - Possible average stacking rate: 24.33 E10/Hr
 - Could have stacked: 496.79 E10/Hr
- Recycler Transfers
 - Pbars sent to the Recycler: 452.15 E10
 - Number of transfers : 57
 - Number of transfer sets: 19
 - Average Number of transfer per set: 3.00
 - Time taken to shoot including reverse proton tuneup: 00.20 Hr
 - Transfer efficiency: 95.57%
- Other Info
 - Average POT : 8.37 E12
 - Average production: 19.01 pbars/E6 protons

Plots

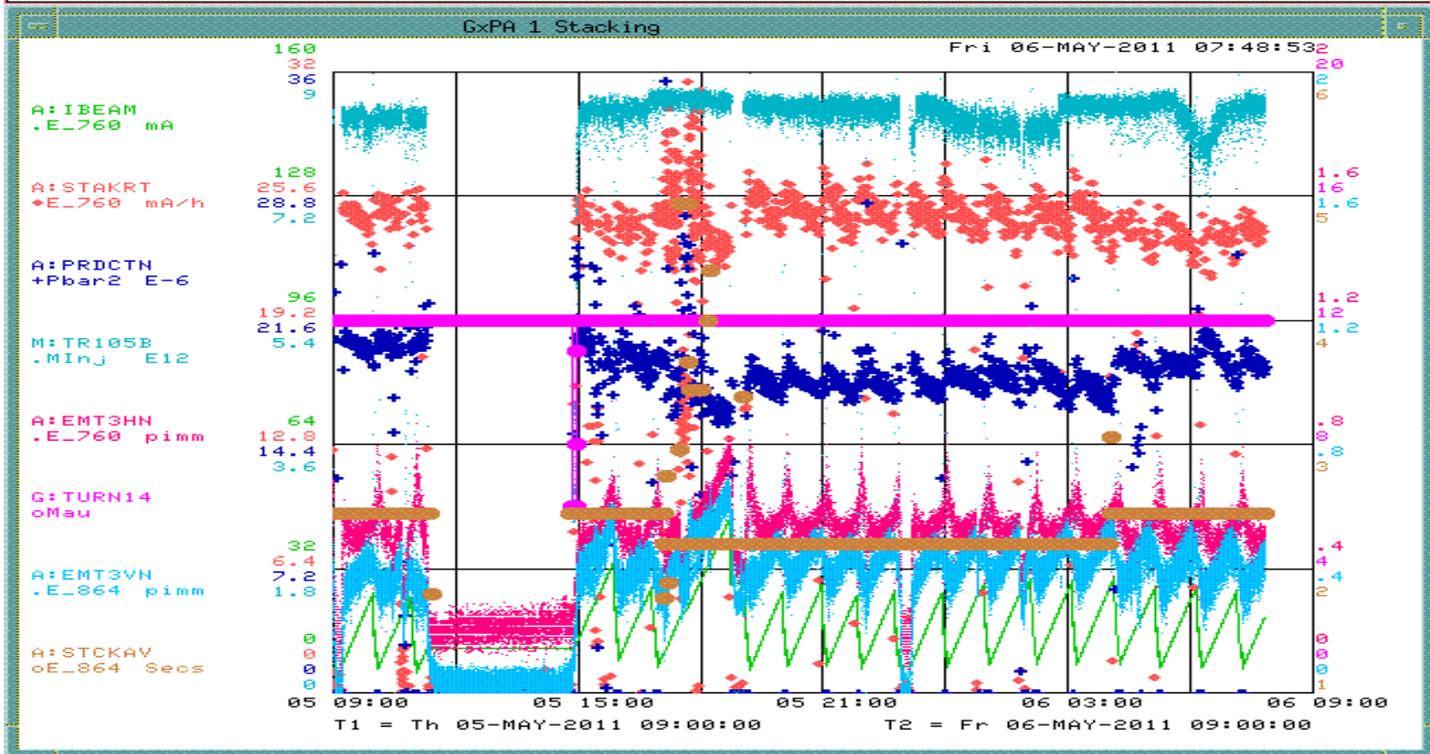
Accelerators (24.0 hrs.)

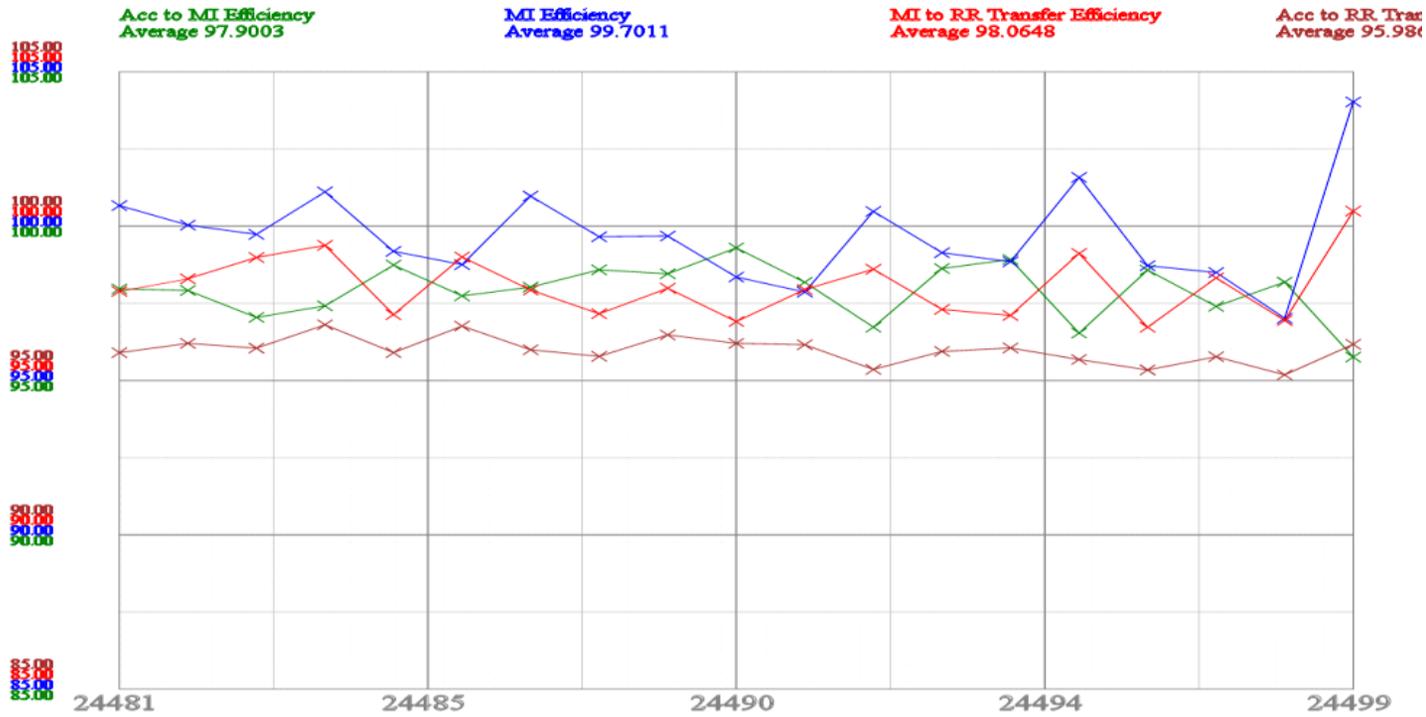
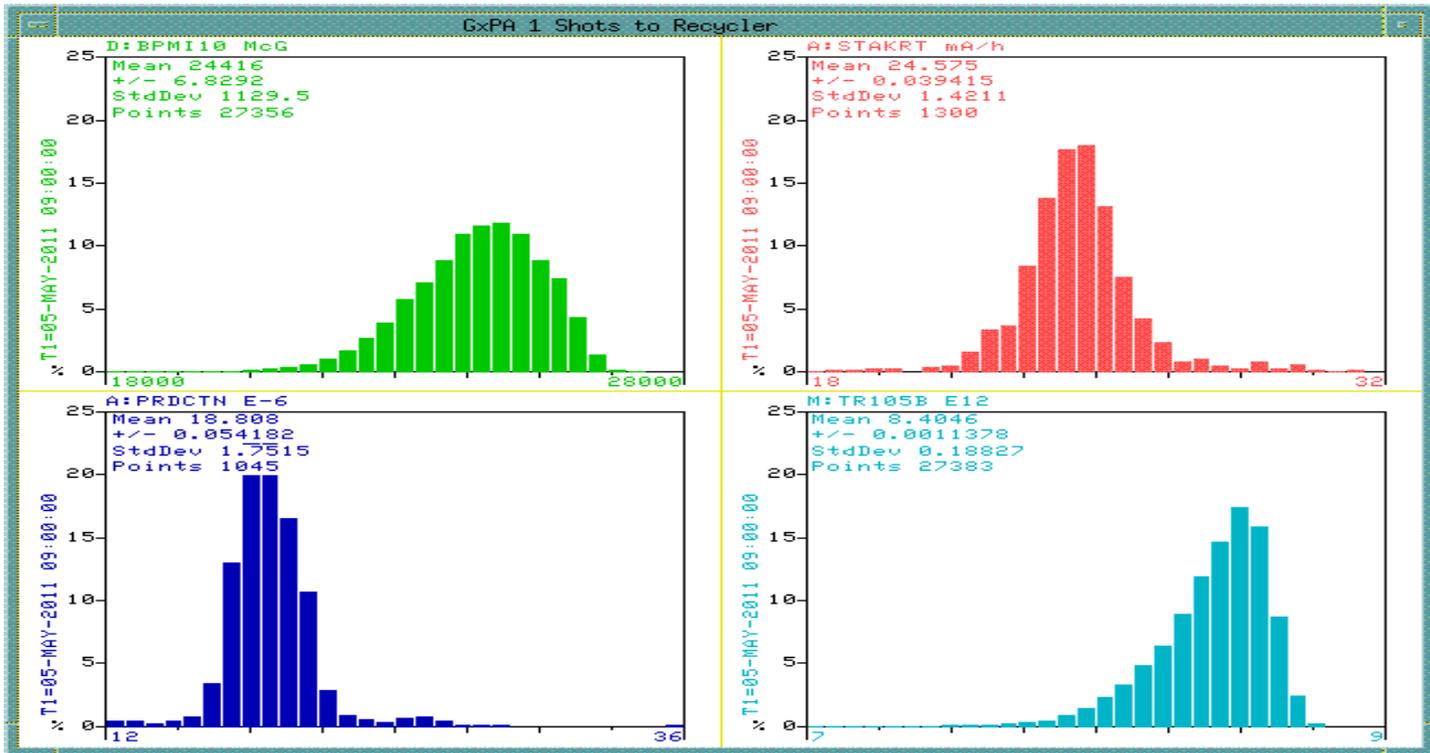


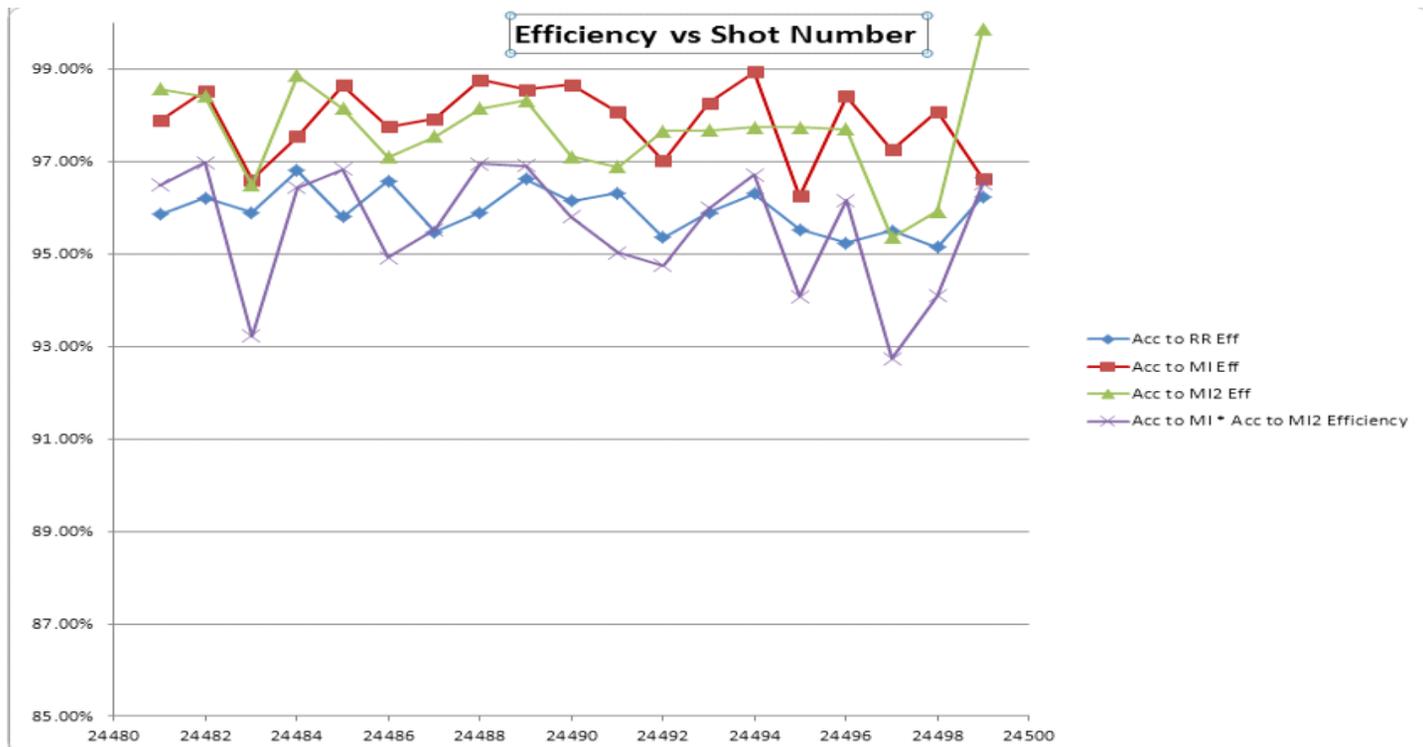
Thu May 05 07:00:00 CDT 2011 -- Fri May 06 07:00:00 CDT 2011



— A:IBEAM • A:STCKRT • Hourly Rate • M:TOR109 • A:PRDCTN — A:EMT3HN — A:EMT3VN
 — Ave Time between \$81's







| 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:B EAMS (R:BEA ME[0]) pre sfer E10 | Column 24 Number _23_R:B EAM (R:BEA ME[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 -> | | | | 460.66 | | | 441.84 | 95.92% | 97.91% | 97.65% | 95.60% | 58 | 19 | 5.2542 | 3.9238 | 1.9978 | |
| Daily Average => | | | | 460.66 | | | 441.84 | | | | | 58 | 19 | | | | |
| 24499 | Friday, May 06, 2011 | 7:08 | 26.69 | 6.37 | 22.71 | 289.76 | 311.37 | 21.86 | 96.24% | 96.64% | 99.87% | 96.52% | 3 | 1 | 4.837 | 3.858 | 2.022 |
| 24498 | Friday, May 06, 2011 | 6:09 | 27.73 | 6.48 | 23.57 | 268.26 | 290.44 | 22.43 | 95.15% | 98.09% | 95.94% | 94.10% | 3 | 1 | 4.876 | 3.808 | 1.982 |
| 24497 | Friday, May 06, 2011 | 5:08 | 27.59 | 6.58 | 23.44 | 246.86 | 268.91 | 22.38 | 95.50% | 97.26% | 95.36% | 92.75% | 3 | 1 | 5.318 | 4.119 | 1.98 |
| 24496 | Friday, May 06, 2011 | 4:08 | 29.94 | 7.54 | 24.84 | 224.03 | 247.36 | 23.66 | 95.24% | 98.42% | 97.71% | 96.16% | 3 | 1 | 5.456 | 4.066 | 1.99 |
| 24495 | Friday, May 06, 2011 | 3:06 | 29.17 | 7.51 | 24.10 | 201.76 | 224.54 | 23.03 | 95.53% | 96.26% | 97.75% | 94.09% | 3 | 1 | 5.401 | 4.206 | 1.989 |
| 24494 | Friday, May 06, 2011 | 2:05 | 29.51 | 7.42 | 24.52 | 178.77 | 202.16 | 23.61 | 96.31% | 98.94% | 97.75% | 96.72% | 3 | 1 | 5.136 | 3.902 | 2.002 |
| 24493 | Friday, May 06, 2011 | 0:56 | 28.48 | 7.21 | 23.72 | 156.63 | 179.13 | 22.74 | 95.91% | 98.28% | 97.68% | 96.00% | 3 | 1 | 5.363 | 3.89 | 2.013 |
| 24492 | Thursday, May 05, 2011 | 23:54 | 26.06 | 6.72 | 21.80 | 136.27 | 156.89 | 20.79 | 95.36% | 97.02% | 97.67% | 94.76% | 3 | 1 | 5.348 | 3.949 | 1.992 |
| 24491 | Thursday, May 05, 2011 | 22:45 | 26.55 | 6.97 | 22.04 | 115.52 | 136.56 | 21.23 | 96.32% | 98.08% | 96.89% | 95.03% | 3 | 1 | 5.435 | 4.036 | 2.036 |
| 24490 | Thursday, May 05, 2011 | 21:49 | 25.23 | 6.44 | 21.27 | 95.43 | 115.73 | 20.45 | 96.15% | 98.66% | 97.11% | 95.82% | 3 | 1 | 5.325 | 3.996 | 2.046 |
| 24489 | Thursday, May 05, 2011 | 20:58 | 27.92 | 7.13 | 23.17 | 73.43 | 95.58 | 22.39 | 96.63% | 98.57% | 98.33% | 96.92% | 3 | 1 | 5.323 | 4.241 | 2.019 |
| 24488 | Thursday, May 05, 2011 | 20:00 | 26.40 | 6.90 | 22.02 | 52.62 | 73.59 | 21.12 | 95.90% | 98.77% | 98.16% | 96.95% | 3 | 1 | 5.505 | 3.765 | 2.021 |
| 24487 | Thursday, May 05, 2011 | 18:44 | 45.42 | 5.78 | 42.83 | 12.39 | 52.81 | 40.90 | 95.49% | 97.93% | 97.55% | 95.53% | 4 | 1 | 5.638 | 4.075 | 1.952 |
| 24486 | Thursday, May 05, 2011 | 16:49 | 27.53 | 6.52 | 23.44 | 389.89 | 412.04 | 22.64 | 96.59% | 97.76% | 97.10% | 94.93% | 3 | 1 | 5.297 | 3.75 | 2.007 |
| 24485 | Thursday, May 05, 2011 | 15:51 | 33.62 | 8.43 | 27.65 | 364.86 | 390.94 | 26.49 | 95.81% | 98.66% | 98.16% | 96.84% | 3 | 1 | 5.486 | 4.109 | 2.003 |
| 24484 | Thursday, May 05, 2011 | 10:54 | 23.19 | 5.05 | 20.64 | 350.10 | 369.65 | 19.98 | 96.81% | 97.55% | 98.87% | 96.45% | 3 | 1 | 4.79 | 3.453 | 1.979 |
| 24483 | Thursday, May 05, 2011 | 9:59 | 25.99 | 6.44 | 22.12 | 329.98 | 350.85 | 21.21 | 95.90% | 96.62% | 96.50% | 93.23% | 3 | 1 | 5.211 | 3.665 | 1.99 |
| 24482 | Thursday, May 05, 2011 | 8:53 | 27.22 | 6.50 | 23.28 | 309.04 | 331.05 | 22.40 | 96.22% | 98.54% | 98.42% | 96.98% | 3 | 1 | 5.098 | 3.847 | 1.98 |
| 24481 | Thursday, May 05, 2011 | 7:54 | 27.74 | 6.72 | 23.52 | 287.58 | 309.87 | 22.55 | 95.87% | 97.89% | 98.58% | 96.50% | 3 | 1 | 4.986 | 3.818 | 1.956 |

