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Prof. Humberto Ortiz High Performance (CCOM – 4996)

Time results for integration using MPI-OpenMP-Hybrid code:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| # of nodes used | # of cores per node used | Total # of cores | Total # of rectangles | Serial (seconds) | OpenMP  (seconds) | MPI (seconds) | Hybrid (seconds) |
| 1 | 1 | 1 | 100000000 | 1.327 | 3.927 | 4.492 | 6.652 |
| 1 | 2 | 2 | 200000000 | 1.058 | 6.156 | 4.440 | 9.671 |
| 2 | 1 | 2 | 200000000 | 2.993 | 2.799 | 5.127 | 9.407 |
| 2 | 2 | 4 | 400000000 | 1.984 | 2.521 | 4.775 | 10.097 |
| 4 | 1 | 4 | 400000000 | 1.593 | 4.858 | 5.439 | 6.631 |
| 4 | 2 | 8 | 800000000 | 1.182 | 2.643 | 5.797 | 6.293 |
| 6 | 1 | 6 | 600000000 | 1.283 | 3.557 | 5.838 | 9.827 |
| 6 | 2 | 12 | 1200000000 | 1.444 | 3.765 | 10.660 | 6.787 |