|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Core | N | P | Serial execution time (microseconds) (P=1) | Parallel execution time (microseconds) | SpeedUP |
| 1 | 64 | 8 | 4192 | 2469 | 1.697853 |
| 1 | 128 | 8 | 7584 | 6188 | 1.225598 |
| 1 | 256 | 8 | 17863 | 17581 | 1.01604 |
| 1 | 512 | 8 | 69877 | 68839 | 1.015079 |
| 1 | 1024 | 8 | 274042 | 261364 | 1.048507 |
| 1 | 2048 | 8 | 1023510 | 1023526 | 0.999984 |
| 9 | 10000 | 64 | 25471304 | 21862068 | 1.165091 |

Monte Carlo Speed UP using PThread

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Core | N | P | Serial execution time (microseconds) (P=1) | Parallel execution time (microseconds) | SpeedUP |
| 2 | 10000 | 3 | 658 | 391 | 1.682864 |
| 19 | 100000 | 40 | 6197 | 3062 | 2.023841 |
| 19 | 1000000 | 40 | 61616 | 23834 | 2.585214 |
| 19 | 100000000 | 40 | 6299137 | 1726644 | 3.648197 |
| 19 | 999999999 | 900 | 61737217 | 2893582 | 21.33591 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

Monte Carlo Speed UP using OMP

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Core | N | P | Serial execution time (microseconds) (P=1) | Parallel execution time (microseconds) | SpeedUP |
| 2 | 10000 | 4 | 658 | 646 | 1.018576 |
| 1 | 100000 | 2 | 6197 | 3310 | 1.872205 |
| 1 | 1000000 | 2 | 61616 | 31981 | 1.926644 |
| 1 | 100000000 | 4 | 6299137 | 3183945 | 1.978406 |
| 1 | 999999999 | 8 | 61737217 | 31925538 | 1.935395 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |