|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| n | 105 | | 106 | | 107 | | 108 | |
| π | t | π | t | π | t | π | t |
| Serial (1 Thread) | 3.141582653590 | 0,001000 | 3.141591653590 | 0,002800 | 3,141592553590 | 0,028000 | 3,141592643589 | 0,277000 |
| 6 threads (Mutex in Loop) | 3,141582653190 | 0,015000 | 3,141591653586 | 0,024200 | 3,141592553590 | 0,096000 | 3,141592643589 | 0,790700 |
| 12 threads (Mutex in Loop) | 3,141582653190 | 0,020300 | 3,141591653586 | 0,034700 | 3,141592553590 | 0,135900 | 3,141592643589 | 1,395600 |
| 6 threads (Mutex out Loop) | 3.141582653190 | 0,013300 | 3,141591653586 | 0,021600 | 3,141592553590 | 0,099600 | 3,141592643590 | 0,893300 |
| 12 threads (Mutex out Loop) | 3,141582653190 | 0,018700 | 3,141591653586 | 0,024700 | 3,141592553590 | 0,093200 | 3,141592643590 | 0,786700 |

Tabela - Comparativo do estimador do número PI (Usando Mutex dentro e fora do loop de execução das threads)

|  |  |  |  |
| --- | --- | --- | --- |
|  | m = 8000000 e n = 8 | m = 8000 e n = 8000 | m = 8 e n = 8000000 |
| Serial (1 Thread) | 0,18590 | 0,17700 | 0,19970 |
| 6 threads (Mutex in Loop) | 0,05660 | 0,04300 | 0,57300 |
| 12 threads (Mutex in Loop) | 0,04560 | 0,03520 | 0,01840 |

Tabela - Comparativo do tempo de execução da multiplicação de uma matriz por um vetor em segundos