**Parallel Efficiency of OpenMP and Pthreads Implementations**

**Sequential Execution (S) = 70.653 s for Matrix Size 3000**

**OpenMP**

|  |  |  |
| --- | --- | --- |
| Cores (p) | Time T(p) | PE = S/p\*T(p) |
| 1 | 83.646 s | 0.844 |
| 2 | 41.381 s | 0.853 |
| 3 | 30.389 s | 0.774 |
| 4 | 29.142 s | 0.606 |

**Pthreads**

|  |  |  |
| --- | --- | --- |
| Cores (p) | Time T(p) | PE = S/p\*T(p) |
| 1 | 69.765 s | 1.012 |
| 2 | 37.389 s | 0.944 |
| 3 | 33.386 s | 0.705 |
| 4 | 32.794 s | 0.538 |