**Computer Configuration details:**

Dell IntelÂ® Core 2 Duo Processor T6600 (2.20GHz/ 800 FSB/ 2MB Cache)

**Time taken in Serial Code Matrix Multiplication:**

|  |  |
| --- | --- |
| **Matrix dimension (NxN \* NxN)** | **Time Taken** |
| **10** | **0.00000000** |
| **100** | **0.0210000** |
| **500** | **2.8900000** |
| **1000** | **19.620000** |
| **2000** | **192.53000** |

**Time taken after parallelization in OpenMP**

**All results for 2 threads as System is Core 2 duo**

|  |  |
| --- | --- |
| **Matrix dimension (NxN \* NxN)** | **Time Taken** |
| **10** | **0.000000** |
| **100** | **0.009900** |
| **500** | **1.7400000** |
| **1000** | **12.070000** |
| **2000** | **127.87000** |

**Time Taken after parallelization in MPI**

|  |  |
| --- | --- |
| **Matrix dimension (NxN \* NxN)** | **Time Taken** |
| **10** | **0.000000** |
| **100** | **0.000044** |
| **500** |  |
| **1000** |  |
| **2000** |  |