Documentation

|  |  |  |  |
| --- | --- | --- | --- |
| tip | procese | T1 | T2 |
| scatter/gather | 4 | 34.3757 | 4608.24 |
| 8 | 30.333 | 4540.41 |
| 20 | 35.2226 | 4459.82 |
| 4 | 30.225 | 4605.81 |
| 8 | 28.6231 | 4657.84 |
| 20 | 34.7228 | 4531.75 |
| send/recv | 5 | 2173.86 | 4911.85 |
| 9 | 2138.13 | 4550.66 |
| 21 | 2174.07 | 4521.14 |
| 5 | 2164.48 | 4523.32 |
| 9 | 2209.78 | 4535.86 |
| 21 | 2185.84 | 4507.42 |

**N=M=1000 si n=m=3**

**Lab 2:**

|  |  |  |
| --- | --- | --- |
| Tip Matrice | Nr threads | Timp executie |
| N=M=1000 si n=m=3 | 0 | 3145.701 |
| 2 | 5505.001 |
| 4 | 7412.802 |
| 8 | 9396.743 |
| 16 | 9683.15 |

**Analysis:**

**send/recv:** The execution times for p = 5, 9, and 21 are very similar between the two sets, with only small differences observed.

**scatter/gather:** The execution times are better when the nr of processes increases, but still a small difference. When using scatter and gather, we can see that T1 decreased considerably.

**Lab 3 vs Lab 2:**

**send/recv:** T2 decreases considerably in this lab compared to the previous laboratory, for the one with 21 processes, it is nearly half of the lab 2 one with 16.

**scatter/gather:** We can see a significant difference, here with 8 threads we have aprox 4657, while in the last lab we had 9396, which is almost double. Here with 8 threads we are even better then the lab 2 version with 2 threads, which is a big thing.