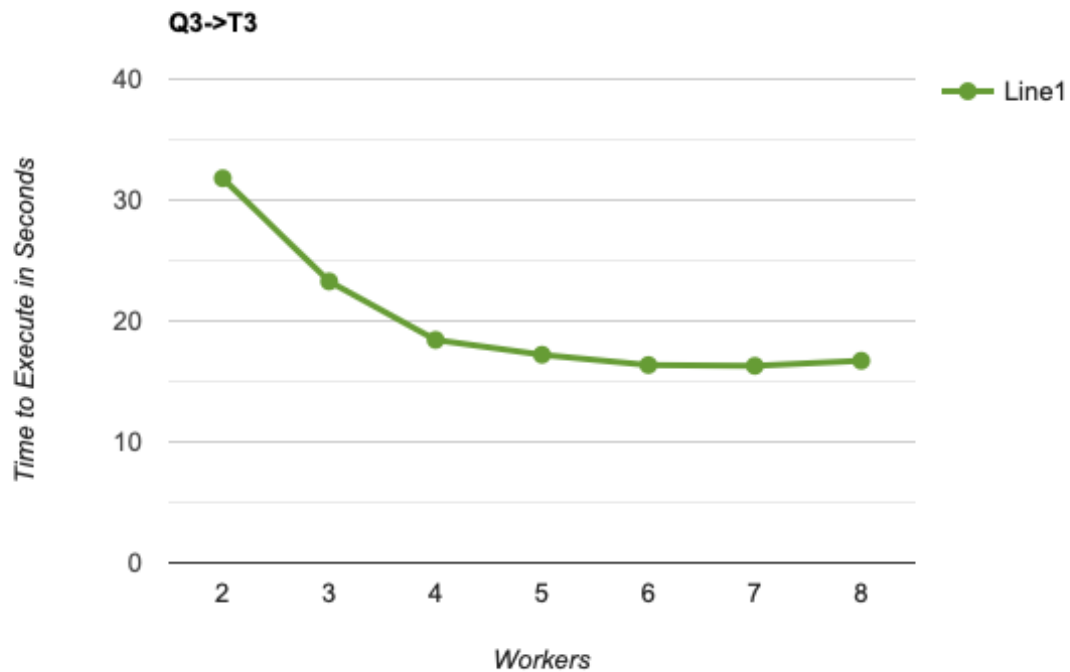


## Analysis - 1

Q3 : Implementation using MPI.



Here, we are increasing the number of workers at each step. So, For increasing number of workers, there is a decrease in execution time.

For Every Worker in the chart the execution time is noted as below:

| Worker | Execution Time in Seconds |
|--------|---------------------------|
| 2      | 31.80290699005127         |
| 3      | 23.273499011993408        |
| 4      | 18.435437202453613        |
| 5      | 17.20792579650879         |
| 6      | 16.35661506652832         |
| 7      | 16.292361974716187        |
| 8      | 16.712937355041504        |