



CS 426 Project 1 Report

Eren Aytüre -

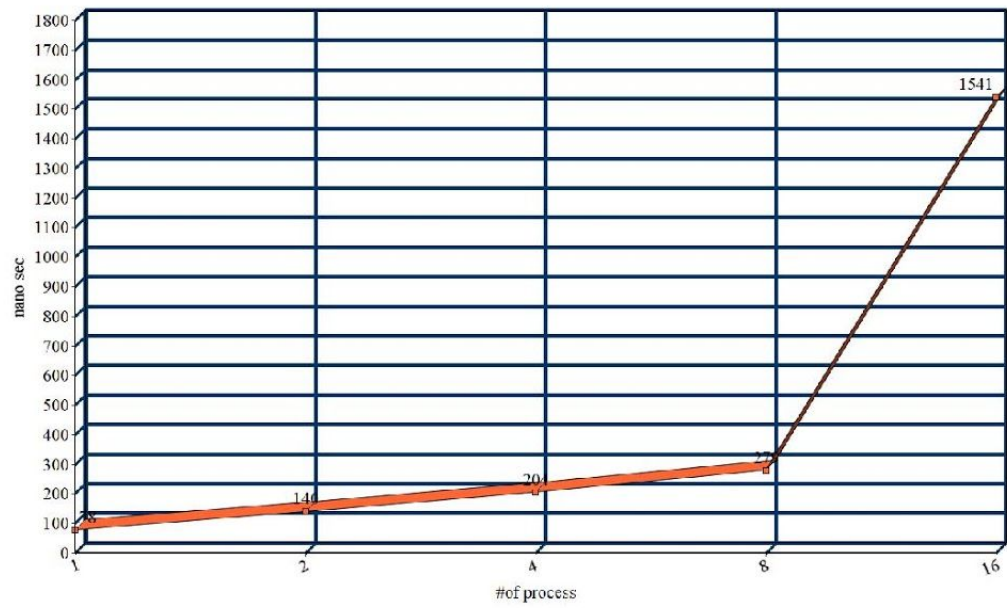
21200559 - Section 1

1) Explanation.

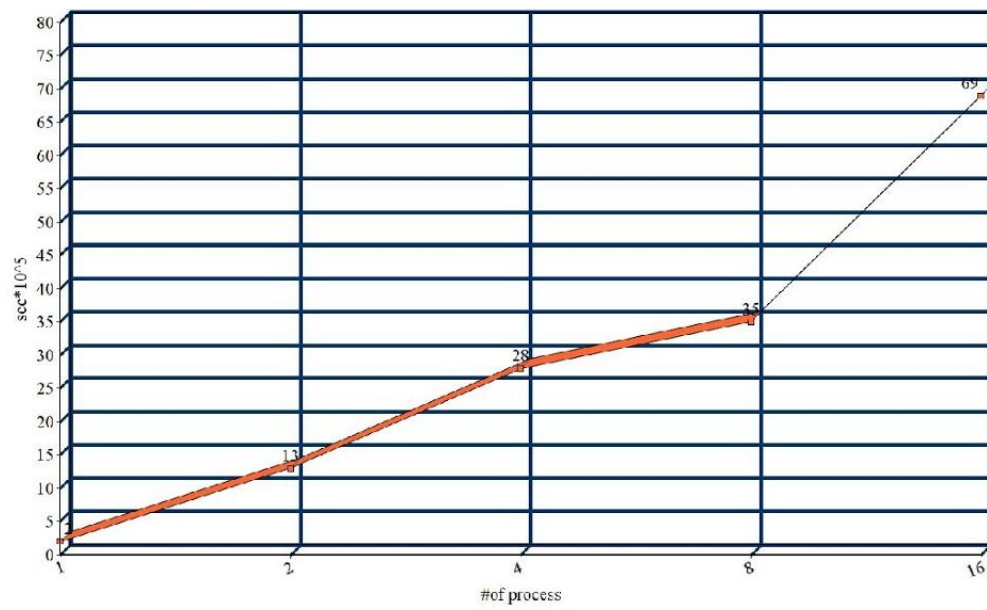
Firstly I could not finish mpi parts in gray scale due to MPI_Datatypes. However, I realized that due to message passing work load increases among process. They have to wait until they receive the data. In first serial executions I have found that making more thread creates an overhead due to small size and program cannot utilize from the implicit parallelism. In each work overhead increased due to the overheads of creation of threads and message passing time. I could finish min serial, min-mpi-v1, min-mpi-v2 and greyscale-serial. Plots are given below. In addition, while broadcasting processes receive data at the same time without a loop and MPI does find min with its own library without overhead.

PLOTS are grayscale-serial, min-mpi,min-serial,min-broadcast

min serial



min serial



min serial

