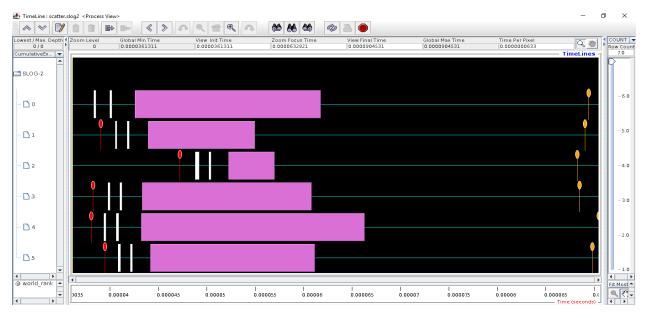
#### **SHASHIPAL REDDY PINGILI**

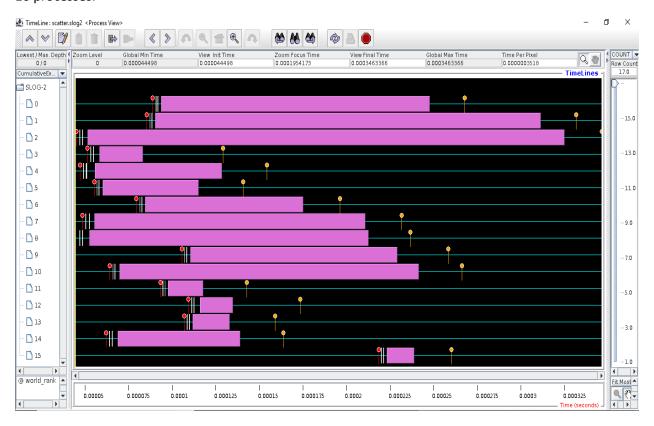
## **PROJECT NO: 1**

MPI\_Scatter: In this program I have used an array for size and used MPI\_Scatter function

## 6 processes:



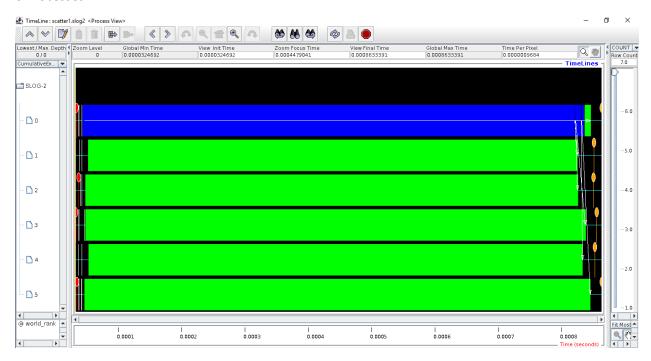
### 16 processes:

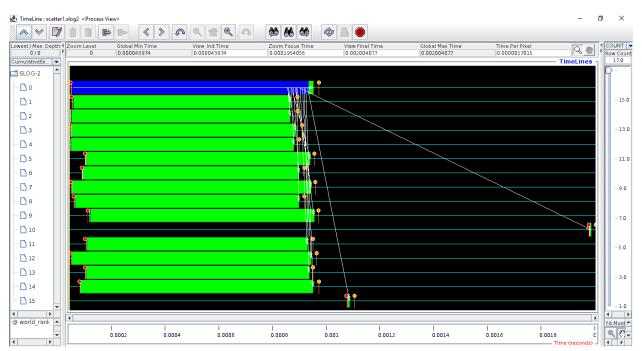


## My Scatter

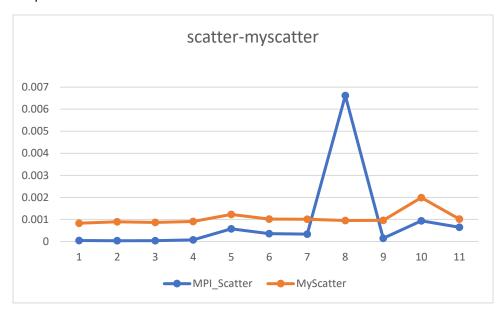
In this program in process 0, I have sent the data to all other processes and to itself. The data to be sent is stored in an array same as no. of process in all other processes I wrote a receive function that will receive the data sent by process 0. I used an integer variable to store the receiving data then I printed the data

#### 6 Processes:





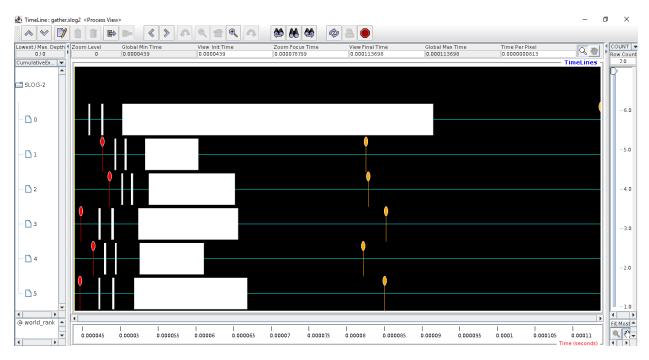
# Graph:

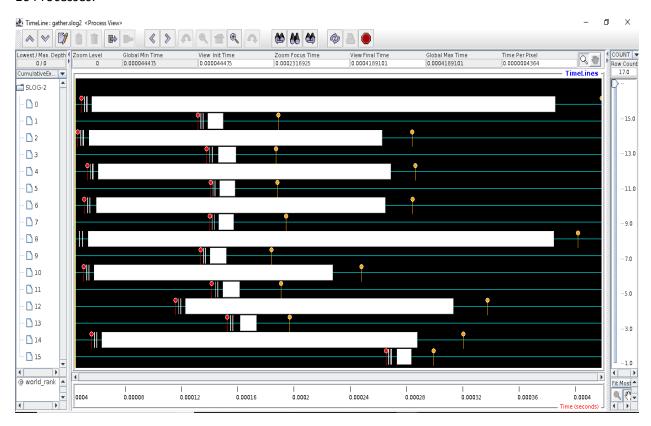


## MPI\_GATHER:

In this program I have used an array for size I have used MPI\_Gather function.

#### 6 Processes:

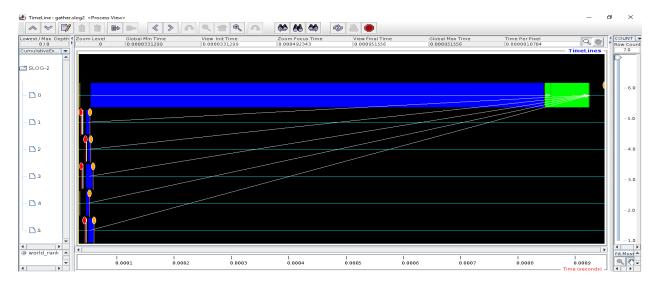


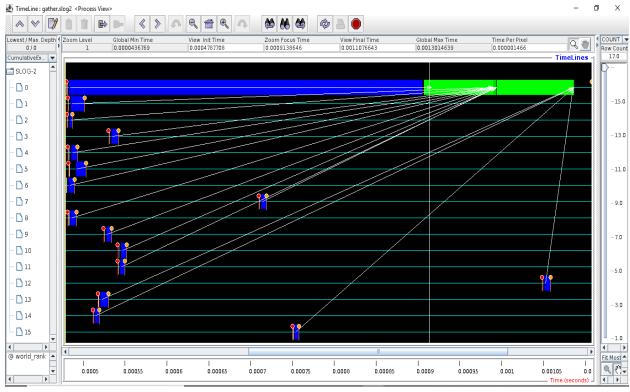


# My Gather:

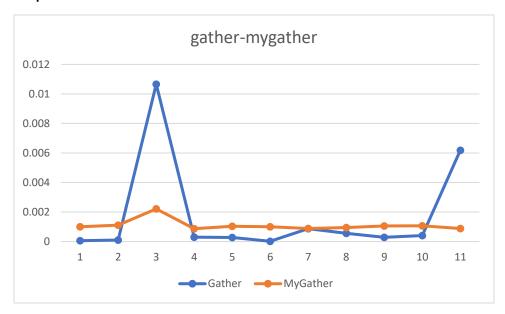
In this program in process 0, I have used a receive function to receive the data sent by all other processes, in this I have used an array with size same as no. of processes in all other processes I wrote a send function which sends data to process 0.

## 6 Processes:





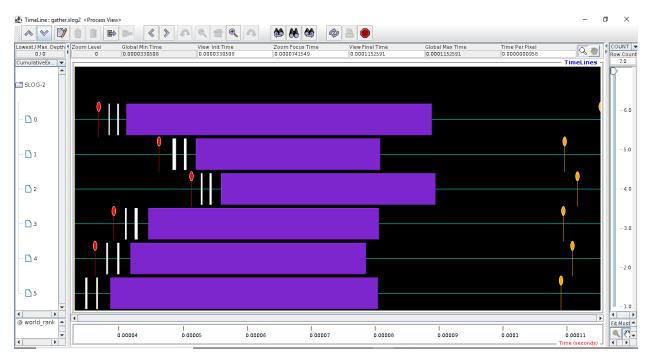
# Graph:

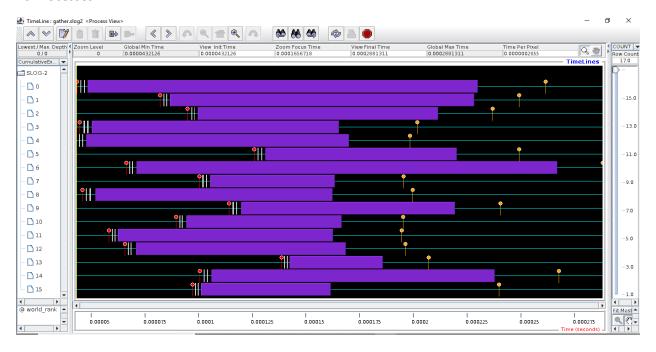


## MPI\_ALLGATHER:

In this program I have used an array for size I have used MPI\_Allgather function.

#### 6 Processes:

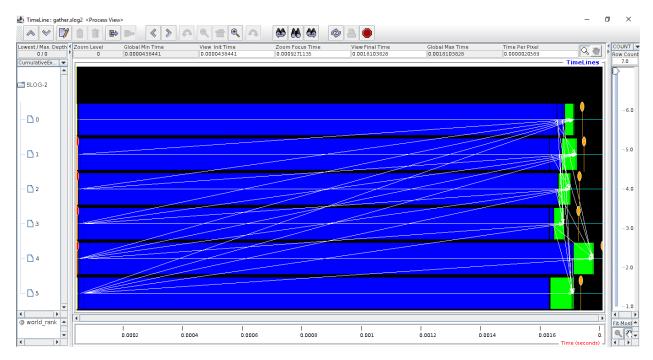


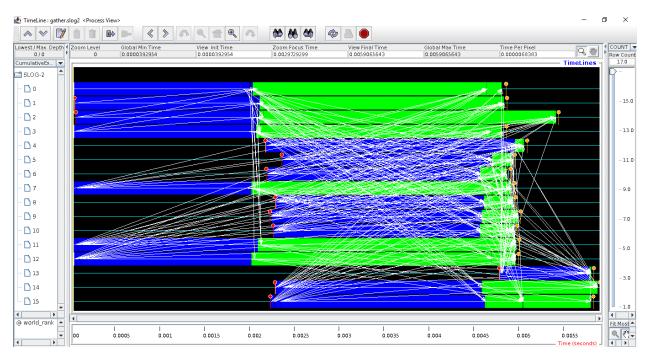


## My\_AllGather:

I have a send and receive function such a way that all the processes send and receive data to and from all other processes and itself in this I have used an array of size same as no. of processes to receive the data.

#### 6 Processes:





# Graph:

