

ISL77 – PARALLEL PROGRAMMING LAB

PART B – MPI PROGRAMS:

1. Demonstration of MPI_Send and MPI_Recv
2. Demonstration of deadlock using point to point communication
3. Avoidance of deadlock by altering the call sequence
4. Avoidance of deadlock by non-blocking calls
5. Avoidance of deadlock by using MPI_Sendrecv (Bandwidth also)
6. Demonstration of synchronization between the two phases of program
7. Demonstration of Broadcast operation
8. Demonstration of MPI_Gather
9. Demonstration of MPI_Scatter
10. Demonstration of MPI_Scatter and MPI_Gather
11. Demonstration of MPI_Reduce (MPI_MAX, MPI_MIN, MPI_SUM, MPI_PROD)
12. Demonstration of MPI_Allreduce (MPI_MAX, MPI_MIN, MPI_SUM, MPI_PROD)