



4th Programming Task

Point-to-Point Communications in MPI

The Task

1. Find, download, setup MPI-library (If you prefer programming at home)
 - For Windows it's better to use MPICH 2.0
2. Design a program in which two processes repeatedly exchange messages of n bytes.
3. Perform experiments and evaluate the dependence of the program's execution time on the length of the message.
4. Use various blocking methods of message passing (MPI_Send, MPI_Ssend, MPI_Bsend, MPI_Rsend) and measure the program's time execution for each case.
5. Use the non-blocking method of data transfer operations and measure the program's time execution in this case.
6. Use the combined Send/Receive operation and measure the program's time execution in this case.
7. Compare the results of computational experiments.

