

# Point-to-Point Communication



# **Sending and Receiving Messages**



# Sending and Receiving Messages



- The basic communication mechanism of MPI is the transmittal of data between a pair of processes.
- This is called point-to-point communication.
- MPI provides a set of **send** and **receive** functions that allow the communication of **typed** data with an associated **tag**.

# Sending and Receiving Messages



- `int MPI_Send(const void *buf, int count, MPI_Datatype datatype, int dest, int tag, MPI_Comm comm);`
- `int MPI_Recv(void *buf, int count, MPI_Datatype datatype, int source, int tag, MPI_Comm comm, MPI_Status *status);`