-> # include "aspi.h" · executable run individually on each node - impirum would run paragram on all specified processors instead of manually executing them by a/arout in each process by default all processes part of single communicator MPL comm_words.

Any 2 porcess may communicate with each other in this scenario. Within communicator, each process has a rank (ID). ranked to to n-1. mt main Cint ango, chartenge) MPI-Init (karge, kargy) MPI Commerciank (MPI-comm-world, knyvank); if (myrank == 0 master(); else slove(); = that run required programs MPI - Finalize () to terminate/cles mpi MPI_ Comm_ size (MPI_comm_werd, Lore LD, Lgmp Size); saves no. of processes in this comme grap to grapsize

Communication: int negronk; MPI Comm-Rank (MPI-Comm-weeld, bryrank); if (myrank = = 0) MPI-Send (bx, 1, MPI-INT, 1, msgtag, MPI-comm-warts) Jelse if (myrank = = 1) MPI_Recu (& x, 1, MPI_INT, 0, msgtag, MPI_comm. PURLD, status); to differentiale blue different type of manager sent MPI-ANY-TAG [doubt care which resieve picks data] says that data can come from any source Synchronous send & recieve wait until data her been accepted/recieved.

-> Also, helps synchronise processes. MPI Send (and buffer, to be sut, data-type, destination, magtab, comm) Blocking ve Non-blocking -> returns immediately. La coaits ontil local operations (save dato, network actions...) completed has let root //process that contains data to be broadcast

-> M_beast(...) sends to all processes in Comm group. -> M_ scatter (...): If I have list of lata, I want to split I send to different processes. [will scatter into] -> M_gather (...): opposite of scatter. apposite of boost, but what for wed to me -> M- reduce (...) : Operation of reduction is to be mentioned