

```
1  #include <stdio.h>
2  #include <string.h>
3  #include "mpi.h"
4
5  int main(int argc, char** argv) {
6      int my_rank; /* rank of process */
7      int rank_x_10; /* rank of process times 10 */
8      int received_rank_x_10; /* rank of process times 10 */
9      int p; /* number of processes */
10     int source; /* rank of sender */
11     int dest; /* rank of receiver */
12     int tag = 0; /* tag for messages */
13     //char message[100]; /* storage for message */
14     MPI_Status status; /* return status for */
15                         /* receive */
16     MPI_Request request;
17
18     printf("Questo programma è bello\n");
19
20     MPI_Comm_size(MPI_COMM_WORLD, &p);
21
22     /* Start up MPI */
23     MPI_Init(&argc, &argv);
24
25     /* Find out process rank */
26     MPI_Comm_rank(MPI_COMM_WORLD, &my_rank);
27
28     /* Find out number of processes */
29     MPI_Comm_size(MPI_COMM_WORLD, &p);
30
31     if (my_rank != 0) { // slave
32         /* Create message */
33         dest = 0;
34         rank_x_10 = my_rank * 10; // supercalcolo LOL!
35         MPI_Send(&rank_x_10, 1, MPI_INT, dest, tag, MPI_COMM_WORLD);
36         rank_x_10 = 666;
37
38     } else { /* my_rank == 0 */
39         for (source = 1; source < p; source++) {
40             /* Provare con e senza tag MPI_ANY_SOURCE */
41             MPI_Recv(&received_rank_x_10, 1, MPI_INT, source, tag, MPI_COMM_WORLD, &status);
42             printf("Received %d rank10 from source %d\n", received_rank_x_10, status.MPI_SOUR
43         }
44     }
45
46     /* Shut down MPI */
47     MPI_Finalize();
48 } /* main */
49
```