

```
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     /* Start up MPI */
19     MPI_Init(&argc, &argv);
20
21     /* Find out process rank */
22     MPI_Comm_rank(MPI_COMM_WORLD, &my_rank);
23
24     /* Find out number of processes */
25     MPI_Comm_size(MPI_COMM_WORLD, &p);
26
27     if (my_rank != 0) {
28         /* Create message */
29         dest = 0;
30         rank_x_10 = my_rank * 10 ; // supercalcolo LOL!
31         MPI_Send(&rank_x_10, 1, MPI_INT, dest, tag, MPI_COMM_WORLD);
32
33     } else { /* my_rank == 0 */
34         for (source = 1; source < p; source++) {
35             // Provare con e sneza tag MPI_ANY_SOURCE ;)
36             //MPI_Recv(&received_rank_x_10, 1, MPI_INT, source, tag, MPI_COMM_WORLD, &status)
37             //printf("Received %d rank10 from source %d\n", received_rank_x_10, source);
38             MPI_Recv(&received_rank_x_10, 1, MPI_INT, MPI_ANY_SOURCE, tag, MPI_COMM_WORLD, &status)
39             printf("Received %d rank10 from source %d\n", received_rank_x_10, status.MPI_SOURC
40         }
41     }
42
43     /* Shut down MPI */
44     MPI_Finalize();
45 } /* main */
46
```