































## **Trivial MPI Application**

```
int rank, size, message = -1, tag = 11111;
   MPI_Init(NULL, NULL); /* Startup */
   MPI_Comm_rank(..., &rank); /* Who am I? */
   MPI_Comm_size(..., &size); /* How many peers do I have? */
   to = (rank + 1) % size;
   from = (rank + size - 1) % size;
   /* Send a trivial message around in a ring */
   if (0 == rank) {
     message = 42;
     MPI_Send(&message, 1, MPI_INT, to, tag, ...);
     MPI_Recv(&message, 1, MPI_INT, from, tag, ...);
   } else {
     MPI_Recv(&message, 1, MPI_INT, from, tag, ...);
     MPI_Send(&message, 1, MPI_INT, to, tag, ...);
   }
   MPI_Finalize();
                                    ahaha
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```













