# PRIME NUMBER USING MPI

#include<stdio.h>

#include<mpi.h>

int main(int argc, char\* argv[])

{

int n, c = 2,rank, size, len;

char version[MPI\_MAX\_LIBRARY\_VERSION\_STRING];

MPI\_Init(&argc, &argv);

MPI\_Comm\_rank(MPI\_COMM\_WORLD, &rank);

MPI\_Comm\_size(MPI\_COMM\_WORLD, &size);

MPI\_Get\_library\_version(version, &len);

printf("Enter a number to check if it is prime\n");

scanf("%d",&n);

for ( c = 2 ; c <= n - 1 ; c++ )

{

if ( n%c == 0 )

{

printf("%d isn't prime.\n", n);

break;

}

}

if ( c == n )

printf("%d is prime.\n", n);

MPI\_Finalize();

}

