#include <mpi.h>

#include <stdio.h>

int main(int argc, char\*\* argv) {

int rank;

int buf;

const int root=0;

int data;

int ack = 1;

MPI\_Init(&argc, &argv);

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

if(rank == root) {

buf = 777;

}

printf("[%d]: Before Bcast, buf is %d\n", rank, buf);

/\* everyone calls bcast, data is taken from root and ends up in everyone's buf \*/

MPI\_Bcast(&buf, 1, MPI\_INT, root, MPI\_COMM\_WORLD);

printf("[%d]: After Bcast, buf is %d\n", rank, buf);

if(rank == 1)

{

MPI\_Send(&ack, 1, MPI\_INT, 0, 0, MPI\_COMM\_WORLD);

}

if(rank == root)

{

MPI\_Recv(&data, 1, MPI\_INT, 1, 0, MPI\_COMM\_WORLD, MPI\_STATUS\_IGNORE);

printf("Recieved data %d from process\n", data);

}

MPI\_Finalize();

return 0;

}

OUTPUT

