Homework 5

Write an MPI program where each process prints “Hello World” and the process is running on (use some form of the “hostname” command) . Run this on the ITaP Scholar queue on two node. Each nodes has 16 cores, so you should run a total of 32 processes.

What to turn in: You should turn in a zip file called <your last name>.zip. When unzipped it should create a directory called <your last name> containing your code and your output. Your output can either be a screen shot, what you capture from using the Unix/Linux *script* command or the program output directed into another file.

Where to find information about running programs on the Scholar cluster.

1. How to connect to Scholar: https://www.rcac.purdue.edu/compute/scholar/guide/#accounts_login_sshclient
2. How to compile MPI programs on Scholar: https://www.rcac.purdue.edu/compute/scholar/guide/#compile_mpi - I used c and c++ code samples.
3. How to run MPI programs on Scholar: https://www.rcac.purdue.edu/compute/scholar/guide/#run_pbs_examples_mpi