

Using the Grid

The goal of this homework is to become familiar with submitting a job on the grid using Condor-G.

Write a program in C to determine whether a given number is prime. Your executable should be called `primetest`. It is to be executed with one argument – the number to be tested. So, a typical run locally will look like:

```
$ primetest 41
41 is a prime
$ echo $?
0
$ primetest 42
42 is not a prime; divisible by 2
$ echo $?
1
$ primetest
usage: primetest <number>
$ echo $?
2
$ primetest -42
primetest: Invalid argument; Parameter should be a positive integer
$ echo $?
2
```

You should give the instructions to create a directory on the remote node, transfer the executable to that node in your directory, and to execute it with a submit file. If you can give me a script to do the same, it will be even better. Make sure to give the instructions to perform a cleanup.

What to handin

Handin an electronic copy of all the sources, README, Makefile(s), and results. Copy everything in a directory called `username.1` where `username` is your login name on admiral. Issue the following commands for submission:

```
% cd
% ~sanjiv/bin/handin cs6740 1
```