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Operating Systems: Assignment 3

Compiling and Execution

The program was compiled and tested using GCC Version 4.4.7 20120313 (Red Hat 4.4.7-4) on a CIRCE terminal running Scientific Linux v6.3.

To compile, use either of the following commands:

```
make
gcc ass3.c -lpthread -lrt -o ass3
```

Then run the program by executing "ass3."

```
./ass3
```

Running in the aforementioned environment, no errors or warnings are received upon compiling the program.

Performance

Running the program within the Linux 'time' command can provide some analysis of the performance of the program.

From this, we can determine that the program used about 0.003s of CPU time, since the 'user' and 'sys' labels refer to the time spent outside (user mode) and inside (kernel mode) the kernel, respectively. The 'real' label simply indicates the amount of time from the beginning to the end of the program call, including the 26 seconds (26 characters in **mytest.dat**) of time that the program spent sleeping - as mandated by the project guidelines. This means that the actual running time of the program - not including **sleep()** calls was approximately 2.011 seconds