Concurrent Systems II

Practical 1

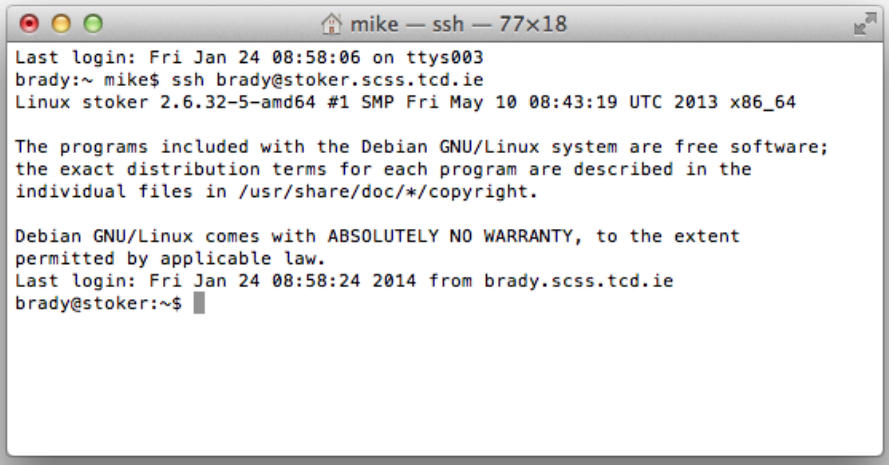
January 28, 2014

This practical is worth 1% of your year-end result. Have it ready for inspection at your practical on this day week—i.e. Tuesday February 4.

- Write a complete threaded program in C (or non-OO C++) on a Linux machine—e.g. `stoker.cs.tcd.ie`—to compute the value π. You'll need to find some way to do this with, for instance, a series or an integral so that you can use an embarrassingly parallel approach.
- Find out how to measure *elapsed* time in the Linux environment and do some measurements. From the measurements, can you deduce how many processors/cores are in the machine?

Today, you should concentrate on the mechanical details of connecting to stoker and compiling a program on it. You can find the text of the HelloWorld program at:
`http://www.scss.tcd.ie/CourseModules/CS3015/Assets/Practicals/p1/helloworldsample.c`.

Here is what connecting to `stoker` might look like, the first time you connect over an `ssh` link:



(`http://www.scss.tcd.ie/CourseModules/CS3015/Assets/Practicals/p1/practical.pdf`)