COP4530 – Data Structures, Algorithms and Generic Programming
Recitation 6
Date: September 28 and October 2, 2009

Lab topic:
1) **Take Quiz 6**
2) **Learn to profile code using gprof**

Profiling code using *gprof*

1. When compiling the code, give gcc the following option: *-pg*.
2. Run the code as you normally would.
   a. The following file will be created: *gmon.out*.
3. Analyze the results using gprof as follows: *gprof <name-of-executable>*.

Example:

1. Copy the following files from *~cop4530/fall09/recitation/rect6* into your directory: *makefile*, *main.cpp*, *README*.
2. Compile *main.cpp* by typing: *make*.
3. Run the code as follows: *a.out*.
4. Analyze the code as follows: *gprof a.out*.
5. Can you figure out what the output from step #4 means?
6. Change *NITERS* in the code to 10000000 and see if the profile is significantly different.
7. Profile the code *test1.cpp*.

References

Topic	Links
gprof	1. http://www.cs.utah.edu/dept/old/texinfo/as/gprof.html