

Lab 09: Profiling

Pre-Lab Answers

November 07, 2020

1. Real – 0.0370s, User – 0.001s, Sys – 0.001s. Real is time the program actually took from start to finish. User time is based how long the program runs on the computer's CPU. Sys is how long the program waits on response from the OS.
2. Gperftool profiles different parts of a program by how much time is spent during then. Callgrind profiles each instruction by the time spent.
3. The output you will get is the real, user, and sys stats. Alongside that, you would receive a flat profile and call graph of the functions of the program. Additionally, you would receive a Callgrind Flat profile showing all function calls.
4. Massif is concerned with the memory usage over the program execution, therefore it will track the allocation of memory, deallocation of memory, and potential loss of memory.