LAB2: Evaluating Accuracy of SimpleScalar

1 Due Date: Week 7, Marking:=10 Marks

2 Objectives

- Evaluating SimpleScalar.
- Using Benchmarks.
- Performance evaluation of real computer and compare its performance to a simulator based system that uses same parameters (cache, speed, bus bandwidth,..).

3 Procedure

- Select an application that requires significant computation or use benchmarks to test the simulator.
- Run the compiled applications on SimpleScalar Simulator.
- Find performance of simulated machine using same parameters of a real computer that you will use to compare the simulator with.
- Use an available computer and compile and run same application on it. Measure its performance (execution time).
- Submit a formal report with the detailed analysis for both systems and results.