

Grading Rubrics

Total point: 100 points

1) Running of the Tools(valgrind,memcheck,callgrind, cachegrind,gprof): (40% points)

Points for running each tool:

- a) memcheck (10% points)
- a) callgrind : (10% points)
- b) cachegrind : (10% points)
- c) gprof: (10% points)

2) SpeedUp code: (30% points)

a) Speedup on 2 core: (15% points)

For each speedup mentioned below:

- i) Good SpeedUp: (full point)
- ii) Any speedUp: (half point)

b) Speedup on 4 core: (15% point)

For each speedup mentioned below:

- i) Good SpeedUp: (full point)
- ii) Any speedUp: (half point)

Note: 5% Points extra will be awarded for reduction in total execution time.

3) Analysis report: (30% points)

Understanding of the tool and what you have inferred from it. What tools have reported to you and on that basis how do you make the improvement in your code.

Point for each tool analysis:

a) callgrind (10% points)

In the report, you have to tell which part of the program takes the most time.

b) cachegrind (10% points)

You have to tell what the cache miss and hit rate.

a) memcheck (5% points)

You have to tell where you find the memory leak and how you handle it.

b) gprof (5% points)

You have to provide the profile of the whole program which includes function call time ,function execution time, etc.