Project 0

Simple OpenMP Experiment

Submitted my: Aman Pandita

Email: panditaa@oregonstate.edu

1. Tell what machine you ran this on?
    - Rabbit(rabbit.engr.oregonstate.edu)
2. What performance results did you get?

S.No.	**Execution time for 4 threads (MegaMults/sec)**	**Execution time for 1 thread (MegaMults/sec)**
1.	1548.26	401.91
Average	1548.26	401.91

3. What was your 4-thread-to-1-thread speedup?
    - S= (Execution time with 4 thread)/(Execution time with 1 threads)
      S= 1548.26/401.91 = 3.85

4. If the 4-thread-to-one-thread speedup is less than 4.0, why do you think it is this way?
    - There is a demand of resources when using threading, and an average speedup is usually between 3.0 to 4.0. So, a speedup of 3.85 is very usual in this case.

5. What was your Parallel Fraction, Fp?
    - float Fp = (4./3.)*(1. - (1./**3.85**))
      float Fp = 0.987