**Jacob Leno CS 475 Program 0 : Simple OpenMP**

1. The code was run on OSU server flip2
2. At the time the code was executed the load average was 1.02, 1.06, 1.05

Using 1 thread

* peak performance was 168.40 MegaMults/Sec
* average performance was 167.31 MegaMults/Sec
* average time was 11.91 Milliseconds

Using 4 threads

* peak performance was 661.51 MegaMults/Sec
* average performance was 652.78 MegaMults/Sec
* average time was 3.09 Milliseconds

1. 4 thread to 1 thread speed up was: 3.85
2. When the number of threads were set to 4 the passes of the for loop were divided up between the 4 different threads reducing the time it took for the program to perform the calculations by nearly ¼th.
3. Fp = = **0.9870**