# COMP 605 – H.W.1

## Pradeep Singh Red ID: 821368893

## **Matrix – Vector Multiplication:**

Optimization Flags	Time command (sec)	gettimeofday() (sec)	Binary Size (KiB)
No Flag	.01612	.018	8.6
-01	.00763	.009	8.6
-02	.00754	.009	8.6
-03	.00751	.008	8.6

#### gprof output --

### **Matrix – Matrix Multiplication:**

Optimization Flags	Time command (sec)	gettimeofday() (sec)	Binary Size (KiB)
No Flag	6.115	6.112	8.6
-01	0.960	0.957	8.6
-02	0.958	0.964	8.6
-03	0.950	0.943	8.6

#### gprof output -

```
[singh@117 hw1]$ gprof ./mat-mat
Flat profile:
Each sample counts as 0.01 seconds.
  કુ
     cumulative
                  self
                                    self
                                            total
 time
        seconds
                 seconds
                            calls Ts/call Ts/call name
100.55
            6.12
                    6.12
                                                    main
```

#### **Hardware and OS Information:**

a) Intel(R) Xeon Processor E3 v5 Family

b) Processor No: E3-1240V5c) Architecture: x86\_64d) Base Frequency: 3.50 GHz

e) RAM: 16 GB

f) Operating System: Linux -- CentOS - 7

g) Compiler: gcc (GCC) 4.8.5