PDC Assignment 3

Single Processor with values , 10^4, 10^5, 10^6 anfd 10^7

1 Thread with values , 10^4, 10^5, 10^6 anfd 10^7

```
aswin@ubuntu:~/Desktop/F23/PDC/hw3/hw3_prime_template$ ./prime_finder.bin m 1 10000
Parallel
0.00187044 [s]
aswin@ubuntu:~/Desktop/F23/PDC/hw3/hw3_prime_template$ ./prime_finder.bin m 1 100000
Parallel
0.02625662 [s]
aswin@ubuntu:~/Desktop/F23/PDC/hw3/hw3_prime_template$ ./prime_finder.bin m 1 1000000
Parallel
0.45620416 [s]
aswin@ubuntu:~/Desktop/F23/PDC/hw3/hw3_prime_template$ ./prime_finder.bin m 1 10000000
Parallel
11.40288220 [s]
aswin@ubuntu:~/Desktop/F23/PDC/hw3/hw3_prime_template$
```

2 Threads with values , 10^4, 10^5, 10^6 anfd 10^7

```
aswin@ubuntu:~/Desktop/F23/PDC/hw3/hw3_prime_template$ ./prime_finder.bin m 2 10000
Parallel
0.00212631 [s]
aswin@ubuntu:~/Desktop/F23/PDC/hw3/hw3_prime_template$ ./prime_finder.bin m 2 100000
Parallel
0.02406520 [s]
aswin@ubuntu:~/Desktop/F23/PDC/hw3/hw3_prime_template$ ./prime_finder.bin m 2 1000000
Parallel
0.31016888 [s]
aswin@ubuntu:~/Desktop/F23/PDC/hw3/hw3_prime_template$ ./prime_finder.bin m 2 10000000
Parallel
6.29020050 [s]
aswin@ubuntu:~/Desktop/F23/PDC/hw3/hw3_prime_template$
```

4 Threads with values , 10^4, 10^5, 10^6 anfd 10^7

```
aswin@ubuntu:~/Desktop/F23/PDC/hw3/hw3_prime_template$ ./prime_finder.bin m 4 10000
Parallel
0.00214362 [s]
aswin@ubuntu:~/Desktop/F23/PDC/hw3/hw3_prime_template$ ./prime_finder.bin m 4 100000
Parallel
0.01891320 [s]
aswin@ubuntu:~/Desktop/F23/PDC/hw3/hw3_prime_template$ ./prime_finder.bin m 4 1000000
Parallel
0.27183303 [s]
aswin@ubuntu:~/Desktop/F23/PDC/hw3/hw3_prime_template$ ./prime_finder.bin m 4 10000000
Parallel
6.03149141 [s]
aswin@ubuntu:~/Desktop/F23/PDC/hw3/hw3_prime_template$
```

6 Threads with values , 10^4, 10^5, 10^6 anfd 10^7


```
aswin@ubuntu:~/Desktop/F23/PDC/hw3/hw3_prime_template$ ./prime_finder.bin m 6 10000
Parallel
0.00241961 [s]
aswin@ubuntu:~/Desktop/F23/PDC/hw3/hw3_prime_template$ ./prime_finder.bin m 6 100000
Parallel
0.01825596 [s]
aswin@ubuntu:~/Desktop/F23/PDC/hw3/hw3_prime_template$ ./prime_finder.bin m 6 1000000
Parallel
0.26669976 [s]
aswin@ubuntu:~/Desktop/F23/PDC/hw3/hw3_prime_template$ ./prime_finder.bin m 6 10000000
Parallel
6.03315761 [s]
aswin@ubuntu:~/Desktop/F23/PDC/hw3/hw3_prime_template$
```

8 Threads with values 10^4, 10^5, 10^6 anfd 10^7


```
aswin@ubuntu:~/Desktop/F23/PDC/hw3/hw3_prime_template$ ./prime_finder.bin m 8 10000
Parallel
0.00224642 [s]
aswin@ubuntu:~/Desktop/F23/PDC/hw3/hw3_prime_template$ ./prime_finder.bin m 8 100000
Parallel
0.01886731 [s]
aswin@ubuntu:~/Desktop/F23/PDC/hw3/hw3_prime_template$ ./prime_finder.bin m 8 1000000
Parallel
0.26718344 [s]
aswin@ubuntu:~/Desktop/F23/PDC/hw3/hw3_prime_template$ ./prime_finder.bin m 8 10000000
Parallel
6.03685383 [s]
aswin@ubuntu:~/Desktop/F23/PDC/hw3/hw3_prime_template$
```