README

* **Best performance for project implementation and its analysis.**

I tested my program varying the size of work given per actor for the **input 1000000 4**. My observations were like

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Size of work | Real | System | User | Ratio |
| 100 | 3.528 | 0.156 | 3.66 | 1.8378 |
| 1000 | 1.48 | 0.08 | 2.64 | 1.08 |
| 10000 | 1.448 | 0.1 | 3.21 | 2.286 |
| 1000000 | 1.904 | 0.108 | 2.77 | 1.5147 |

More the ratio more the parallelism in the system.

Thus when the work size is 10000 there is maximum parallelism.

* **Result of running with the input value 1000000 4**

**No output** is print on console because there is no sequence of four consecutive integer exists which satisfies problem definition.

* **Result of CPU time to REAL time**

Real 0m 1.48s

User 0m 2.64s

Sys 0m 0.08s

Total time used by the process is user+sys= 2.72s

Therefore the CPU time is 1.48s and the real time is 2.72s. **The ratio is 1.8378s.**

* **Largest problem my program can solve.**

Largest program I tested on my computer is 10 Billion i.e 1010. It took around 5 -7 minutes to run my local machine. I ran the program for the sequence of 20.