

Speedup Report

Experiment setup

Virtual Machine Specifications

- Virtualization : VMWare
- OS : Ubuntu 22.04.2 LTS 64-bit
- RAM : 4GB

Single process execution

- Scraper execution time = 19.06 secs
- Total execution time = 22.70 secs

```
• rohit@rohit-virtual-machine:~/Desktop/23CS60R19_Assgn_6B$ /bin/python3 /home/rohit/Desktop/23CS60R19_Assgn_6B/23CS60R19_Assgn_6_3.py
Start time : 1696607163.3327265
○ rohit@rohit-virtual-machine:~/Desktop/23CS60R19_Assgn_6B$
Scraper running ...
(2,)
https://en.wikipedia.org/wiki/2008_Summer_Olympics
(9,)
https://en.wikipedia.org/wiki/1996_Summer_Olympics
(3,)
https://en.wikipedia.org/wiki/2000_Summer_Olympics
(8,)
https://en.wikipedia.org/wiki/1984_Summer_Olympics
(10,)
https://en.wikipedia.org/wiki/1976_Summer_Olympics
(5,)
https://en.wikipedia.org/wiki/1972_Summer_Olympics
(1,)
https://en.wikipedia.org/wiki/1980_Summer_Olympics
(6,)
https://en.wikipedia.org/wiki/2016_Summer_Olympics
(7,)
https://en.wikipedia.org/wiki/2012_Summer_Olympics
(4,)
https://en.wikipedia.org/wiki/2004_Summer_Olympics
None

Scraper End Time : 1696607186.0321488
Scraper Execution time : 19.060309886932373
```

Multiprocess process execution (Parallel processing using 3 processes)

- Scraper_1 execution time = 7.53 secs
- Scraper_2 execution time = 7.96 secs
- Scraper_3 execution time = 8.86 secs
- Total execution time = Start_time – max(scraper_End_time) = 12.89 secs
- Speed-up = (Single process execution time) / (Multiprocess execution time)

$$= 22.70 / 12.89$$

$$= 1.76$$

```
rohit@rohit-virtual-machine:~/Desktop/23CS60R19_Assgn_6B$ /bin/python3 /home/rohit/Desktop/23CS60R19_Assgn_6B/23CS60R19_Assgn_6_3.py
Start time : 1696607374.007682
rohit@rohit-virtual-machine:~/Desktop/23CS60R19_Assgn_6B$
Scraper running ...
(2,)
https://en.wikipedia.org/wiki/2012_Summer_Olympics

Scraper running ...
(9,)
https://en.wikipedia.org/wiki/2008_Summer_Olympics

Scraper running ...
(7,)
https://en.wikipedia.org/wiki/2016_Summer_Olympics
(1,)
https://en.wikipedia.org/wiki/2020_Summer_Olympics
(6,)
https://en.wikipedia.org/wiki/2000_Summer_Olympics
(4,)
https://en.wikipedia.org/wiki/1992_Summer_Olympics
(8,)
https://en.wikipedia.org/wiki/2004_Summer_Olympics
(5,)
https://en.wikipedia.org/wiki/1988_Summer_Olympics
(10,)
https://en.wikipedia.org/wiki/1996_Summer_Olympics
(3,)
https://en.wikipedia.org/wiki/1976_Summer_Olympics
None

Scraper End Time : 1696607385.4575295
Scraper Execution time : 7.527165651321411
None

Scraper End Time : 1696607385.9213066
Scraper Execution time : 7.962087631225586
None

Scraper End Time : 1696607386.8948412
Scraper Execution time : 8.86177110671997
```