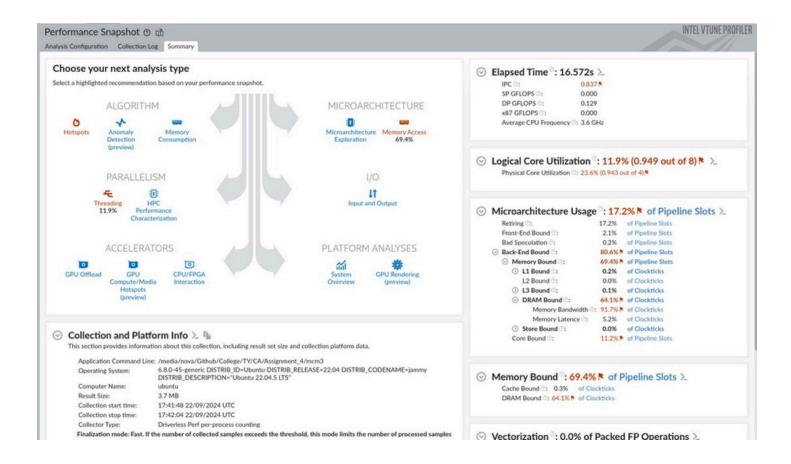
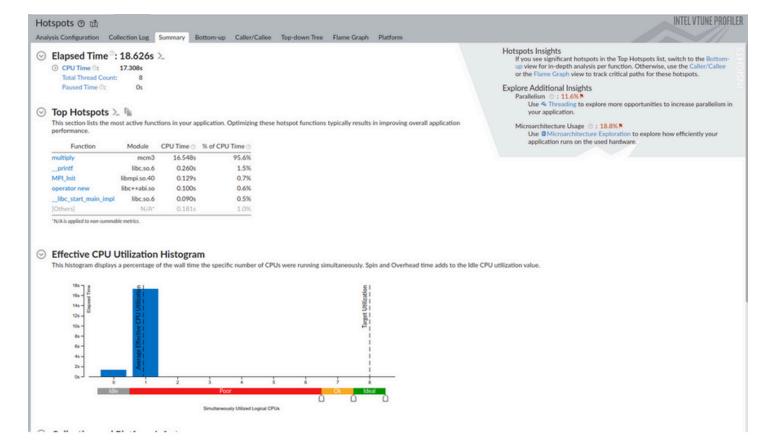
# Name - Aryan Babar

### PRN - 22610090

## Batch - T4

## **Course - Computer Algorithm Lab**

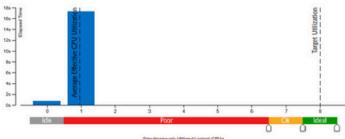




#### Effective CPU Utilization : 12.0% (0.960 out of 8 logical CPUs) \* 1

⊙ Effective CPU Utilization Histogram %

This histogram displays a percentage of the wall time the specific number of CPUs were running simultaneously. Spin and Overhead time adds to the Idle CPU utilization value.



Simultaneously Utilized Logical CPU

⊙ Total Thread Count: 8 ≿ %

Thread Oversubscription ©: 0s (0.0% of CPU Time)

⊙ Top Waiting Objects > ¶₁

This section lists the objects that spent the most time waiting in your application. Objects can wait on specific calls, such as sleep() or I/O, or on contended synchronizations. A significant amount of Wait time associated with a synchronization object reflects high contention for that object and, thus, reduced parallelism.

| Sync Object       | Wait Time with poor CPU Utilization ( | (% from Object Wait Time) ③ | Wait Count @ |
|-------------------|---------------------------------------|-----------------------------|--------------|
| select            | 35.345s                               | 100.0%                      | 11           |
| poll              | 35.282s                               | 100.0%                      | 9            |
| Stream 0x1066984e | 35.235s                               | 100.0%                      | 67           |
| Stream 0x6c3e029b | 0.424s                                | 100.0%                      | 1            |
| Stream 0x4c6e3554 | 0.238s                                | 100.0%                      | 9            |
| [Others]          | 0.262s                                | 100.0%                      | 1,315        |

"N/A is applied to non-summable metrics.

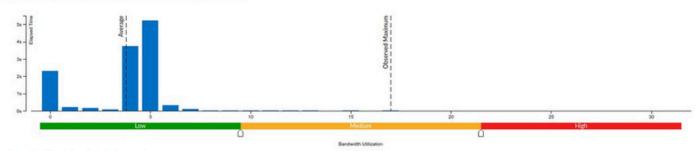
⑤ Spin and Overhead Time ◎: 0s (0.0% of CPU Time) %

#### Bandwidth Utilization Histogram I

Explore bandwidth utilization over time using the histogram and identify memory objects or functions with maximum contribution to the high bandwidth utilization.

Bandwidth Domain: DRAM, GB/sec ✓

Bandwidth Utilization Histogram fla
This histogram displays the wall time the bandwidth was utilized by certain value. Use sliders at the bottom of the histogram to define thresholds for Low, Medium and High utilization levels. You can use these bandwidth utilization types in the Bottom-up view to group data and see all functions executed during a particular utilization type. To learn bandwidth capabilities, refer to your system specifications or run appropriate benchmarks to measure them; for example, Intel Memory Latency Checker can provide maximum achievable DRAM and Interconnect bandwidth.



 $\odot$  Top Functions with High Bandwidth Utilization  $\succsim \, f_{li}$ 

This section shows top functions, sorted by LLC Misses that were executing when bandwidth utilization was high for the domain selected in the histogram area.

No data to show. The collected data is not sufficient.

