Elapsed Time: 0.263s | Application execution time is too short. Metrics data may be unreliable. | Consider reducing the sampling interval or increasing your application | execution time. | Top Hotspots Function Module CPU Time % of CPU Time(%) -------- ------ -------- ---------------- Effective Physical Core Utilization: 12.0% (0.240 out of 2) | The metric value is low, which may signal a poor physical CPU cores | utilization caused by: | - load imbalance | - threading runtime overhead | - contended synchronization | - thread/process underutilization | - incorrect affinity that utilizes logical cores instead of physical | cores | Explore sub-metrics to estimate the efficiency of MPI and OpenMP parallelism | or run the Locks and Waits analysis to identify parallel bottlenecks for | other parallel runtimes. | Effective Logical Core Utilization: 8.0% (0.319 out of 4) | The metric value is low, which may signal a poor logical CPU cores | utilization. Consider improving physical core utilization as the first | step and then look at opportunities to utilize logical cores, which in | some cases can improve processor throughput and overall performance of | multi-threaded applications. | Collection and Platform Info Application Command Line: ./a.out Operating System: 5.15.153.1-microsoft-standard-WSL2 DISTRIB_ID=Ubuntu DISTRIB_RELEASE=18.04 DISTRIB_CODENAME=bionic DISTRIB_DESCRIPTION="Ubuntu 18.04.6 LTS" Computer Name: DESKTOP-I3A7UQ5 Result Size: 3.6 MB Collection start time: 19:00:13 15/08/2024 UTC Collection stop time: 19:00:14 15/08/2024 UTC Collector Type: Driverless Perf per-process counting,User-mode sampling and tracing CPU Name: Intel(R) Processor code named Kabylake ULX Frequency: 2.712 GHz Logical CPU Count: 4 Cache Allocation Technology Level 2 capability: not detected Level 3 capability: not detected If you want to skip descriptions of detected performance issues in the report, enter: vtune -report summary -report-knob show-issues=false -r . Alternatively, you may view the report in the csv format: vtune -report -format=csv.