# Script for Sorting SPE-LDST Data and Identifying Performance Bottlenecks

## Prerequisites

git clone https://github.com/GayathriNarayana19/Frontend\_Backend\_Performance\_Tool.git

Code optimizations will be done based on analyzing the spe-ldst.csv data which helps to narrow down to the hotspot based on total latency value per PC. And, for the same, developed a script sort\_csv.py that

1. Sorts the pc values, and adds the latency value in every pc group to have one total latency per PC value 🡪 total\_latency.csv gives total latency per Program Counter group.
2. sorted\_file\_by\_latency.csv 🡪 Sorted CSV based on latency values
3. sorted\_file\_freq\_pc.csv 🡪Sorted file based on frequency of occurrence of a Program Counter group.

## How to run the script?

Simple! Just run python3 sort\_csv.py spe-ldst.csv

Below 3 files get generated which gives useful information for optimization.

**~/telemetry-solution/tools/spe\_parser**$ python3 sort\_csv.py spe-ldst.csv

Files saved:

- sorted\_file\_freq\_pc.csv

- total\_latency.csv

- sorted\_file\_by\_latency.csv