lab2.md 2025-09-19

## Lab 2 Submission

Virtual Machine settings

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```
jay@jay-HP-Envy-x360-2-in-1-Laptop-14-fc0xxx: ~
                                                                                     Q ≡
jay@jay-HP-Envy-x360-2-in-1-Laptop-14-fc0xxx:~$ cpufetch 2> /dev/null
                                                Name:
                                                              Intel(R) Core(TM)
                                                              Unknown
                                                Technology:
                                                              Unknown
                   .############.
                                                P-cores:
             .####
                                      ####
                                                  Max Freq:
                                                              4.800 GHz
                                                              2 cores (4 threads
                                          ###
                                                  Cores:
                                                              AVX, AVX2
      ##
                                   :##
                                           ###
                     ##
                                           ##
                                                              FMA3
                                   :##
          ######.
                     #### ##### :##
                                                  L1i Size:
                                                              64KB (128KB Total)
 ##
                                           ##
                                                  L1d Size:
                                                              48KB (96KB Total)
##
      ##
          ##:
                         ## ### :##
                                          ###
                        :####### :##
                                                  L2 Size:
                                                              2MB (4MB Total)
##
      ##
               ##:
                                  :## ####
                                                E-cores:
##
                                                              3.800 GHz
                     #### ####:
                                   ##
##
                                                              10 cores
                                                  Cores:
 ###.
                               ..o####.
                                                              AVX, AVX2
  ######00...
                       ..00#######
                                                              FMA3
                                                              64KB (640KB Total)
         o###########o
                                                  L1i Size:
                                                              32KB (320KB Total)
                                                  L2 Size:
                                                              2MB (6MB Total)
                                                L3 Size:
                                                              12MB
                                                Peak Perf.:
                                                              761.60 GFLOP/s
jay@jay-HP-Envy-x360-2-in-1-Laptop-14-fc0xxx:~$
```

