

Report

Execution times

CPU serial -> 25 – 35 milliseconds

GPU parallel -> 40 – 45 milliseconds

My GPU parallel code got slower compare with CPU serial code . This slowing situation is caused by copying memory as far as i think. But the point is that problem of this encoding thing is not complicated or hard to solve. It means copyin memory to GPU takes more time than solving problem. To get more certain information about speed-up we need bigger problem to solve.

In GPU side, i splited one dimensional string heap data to every 100 characters . Each thread had 100 character to process .