

# علیرضا آخوندی

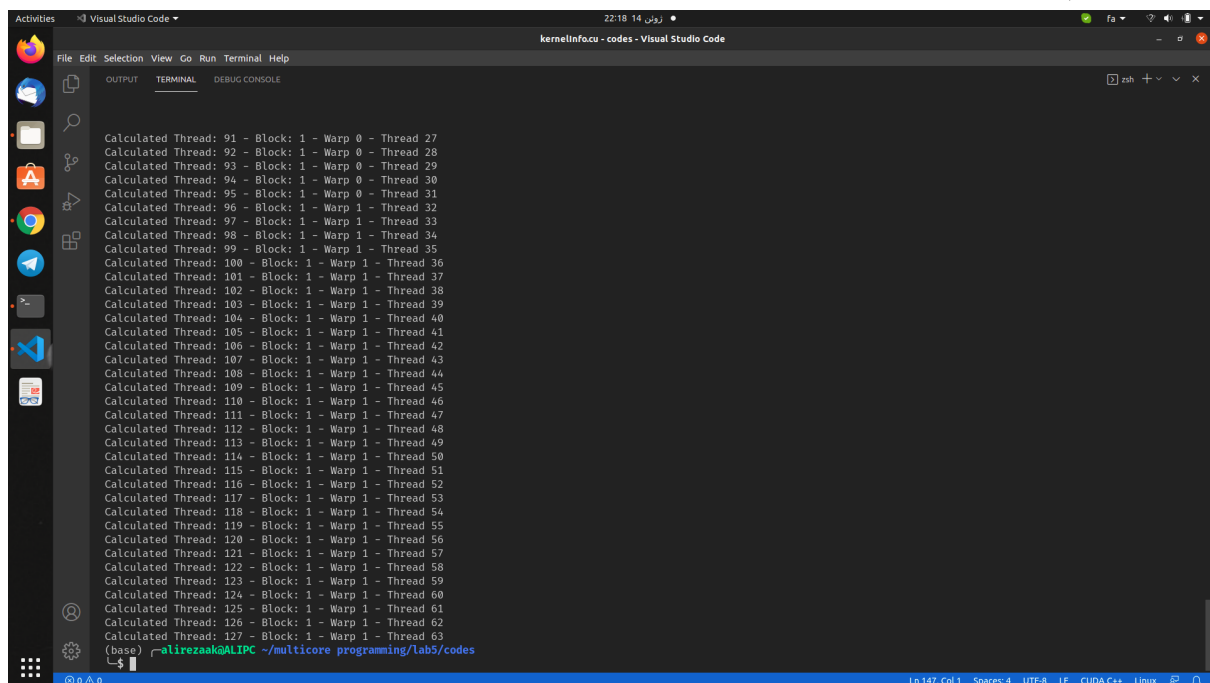
## ۹۷۳۱۱۰۷

گام سوم :

```
$ ./vectorAdd
time for without stride : 0.000156 s
time for with stride: 0.052152 s
```

زمان اول مربوط به روشی است که گرید را به بلاک های ۱۰۲۴ تردی تقسیم کرده و هر ترد وظیفه به دست آوردن حاصل جمع یک خانه را دارد و زمان دوم مربوط به روشی است که در آن حاصل جمع خانه ها بین ترد ها پخش می شود. در واقع هرچه حجم محاسباتی که به یک نخ می دهیم کمتر باشد و به جای آن تعداد نخ ها را افزایش دهیم speedup بیشتری می گیریم.

گام چهارم : اطلاعات مربوط به هر نخ در چند آرایه ذخیره میشود و در آخر با منتقل شدن به حافظه cpu ، آنها را پرینت می کنیم.



```
kernelInfo@cpu - codes - Visual Studio Code
OUTPUT TERMINAL DEBUG CONSOLE
Calculated Thread: 91 - Block: 1 - Warp 0 - Thread 27
Calculated Thread: 92 - Block: 1 - Warp 0 - Thread 28
Calculated Thread: 93 - Block: 1 - Warp 0 - Thread 29
Calculated Thread: 94 - Block: 1 - Warp 0 - Thread 30
Calculated Thread: 95 - Block: 1 - Warp 0 - Thread 31
Calculated Thread: 96 - Block: 1 - Warp 1 - Thread 32
Calculated Thread: 97 - Block: 1 - Warp 1 - Thread 33
Calculated Thread: 98 - Block: 1 - Warp 1 - Thread 34
Calculated Thread: 99 - Block: 1 - Warp 1 - Thread 35
Calculated Thread: 100 - Block: 1 - Warp 1 - Thread 36
Calculated Thread: 101 - Block: 1 - Warp 1 - Thread 37
Calculated Thread: 102 - Block: 1 - Warp 1 - Thread 38
Calculated Thread: 103 - Block: 1 - Warp 1 - Thread 39
Calculated Thread: 104 - Block: 1 - Warp 1 - Thread 40
Calculated Thread: 105 - Block: 1 - Warp 1 - Thread 41
Calculated Thread: 106 - Block: 1 - Warp 1 - Thread 42
Calculated Thread: 107 - Block: 1 - Warp 1 - Thread 43
Calculated Thread: 108 - Block: 1 - Warp 1 - Thread 44
Calculated Thread: 109 - Block: 1 - Warp 1 - Thread 45
Calculated Thread: 110 - Block: 1 - Warp 1 - Thread 46
Calculated Thread: 111 - Block: 1 - Warp 1 - Thread 47
Calculated Thread: 112 - Block: 1 - Warp 1 - Thread 48
Calculated Thread: 113 - Block: 1 - Warp 1 - Thread 49
Calculated Thread: 114 - Block: 1 - Warp 1 - Thread 50
Calculated Thread: 115 - Block: 1 - Warp 1 - Thread 51
Calculated Thread: 116 - Block: 1 - Warp 1 - Thread 52
Calculated Thread: 117 - Block: 1 - Warp 1 - Thread 53
Calculated Thread: 118 - Block: 1 - Warp 1 - Thread 54
Calculated Thread: 119 - Block: 1 - Warp 1 - Thread 55
Calculated Thread: 120 - Block: 1 - Warp 1 - Thread 56
Calculated Thread: 121 - Block: 1 - Warp 1 - Thread 57
Calculated Thread: 122 - Block: 1 - Warp 1 - Thread 58
Calculated Thread: 123 - Block: 1 - Warp 1 - Thread 59
Calculated Thread: 124 - Block: 1 - Warp 1 - Thread 60
Calculated Thread: 125 - Block: 1 - Warp 1 - Thread 61
Calculated Thread: 126 - Block: 1 - Warp 1 - Thread 62
Calculated Thread: 127 - Block: 1 - Warp 1 - Thread 63
(base) alirezaak@ALIPC ~/multicore programming/lab5/codes
```