

# Assignment 3

## Computação em Larga Escala

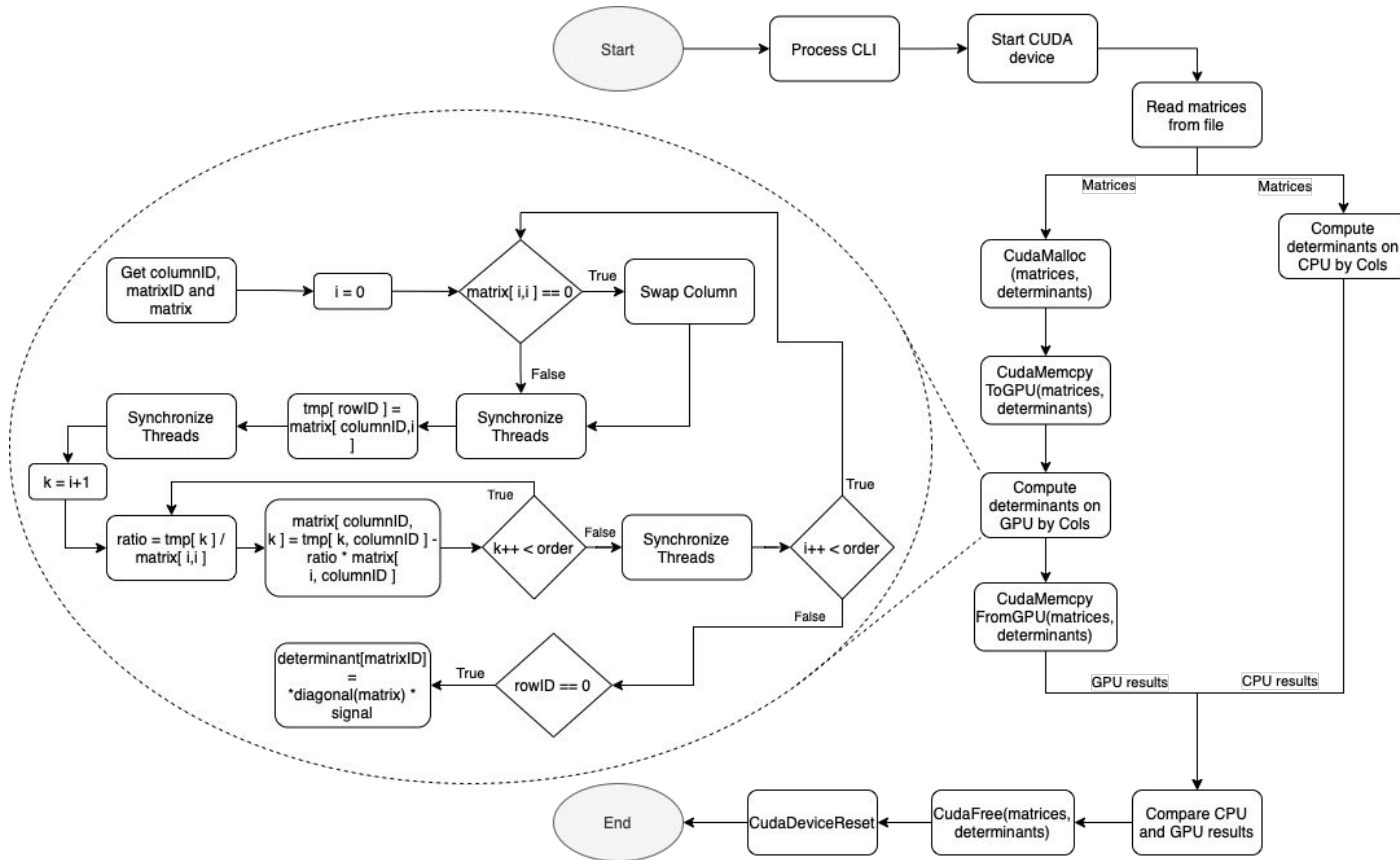
TP1 - G8

92984 - João Rainho

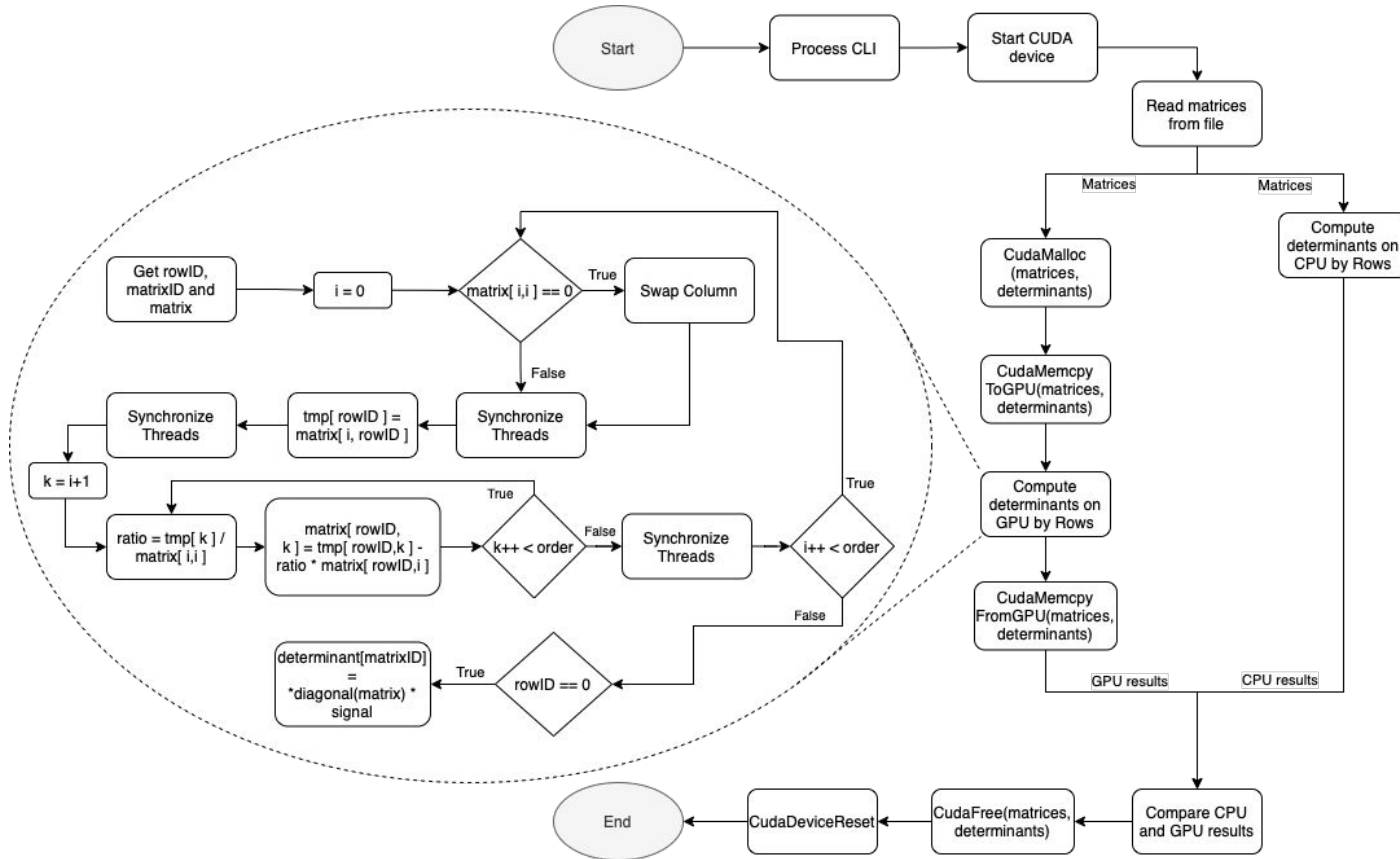
93305 - João Ferreira

June 2022

# Decomposition Cols algorithm

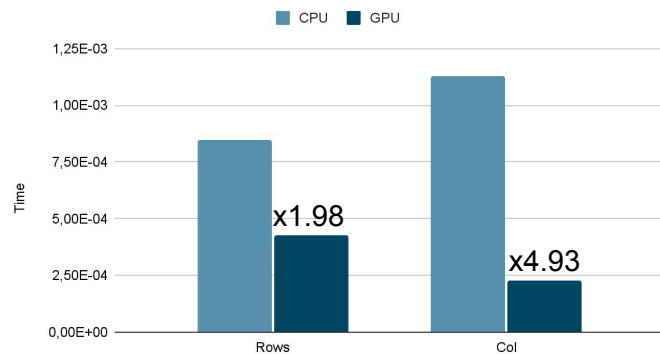


# Decomposition Rows algorithm

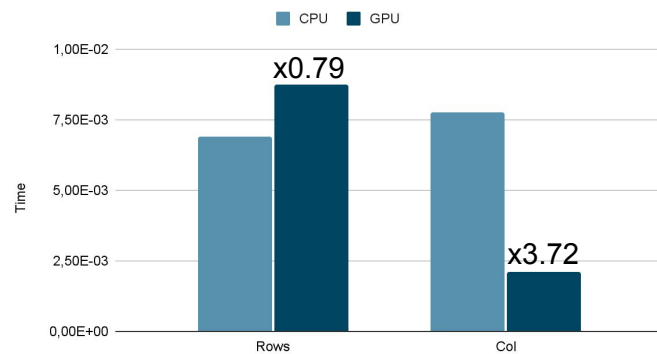


# Results

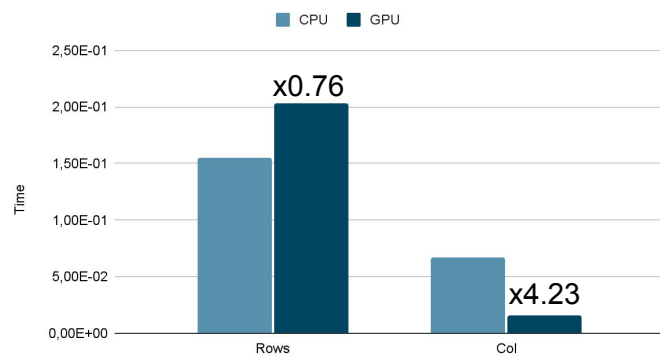
mat128\_32



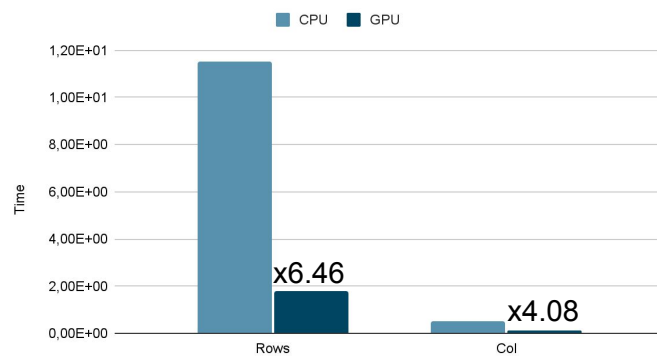
mat128\_64



mat128\_128

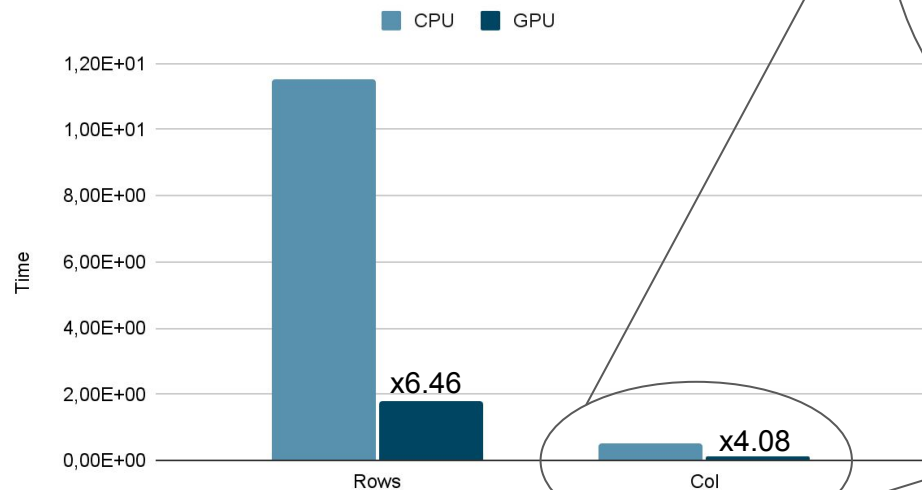


mat128\_256

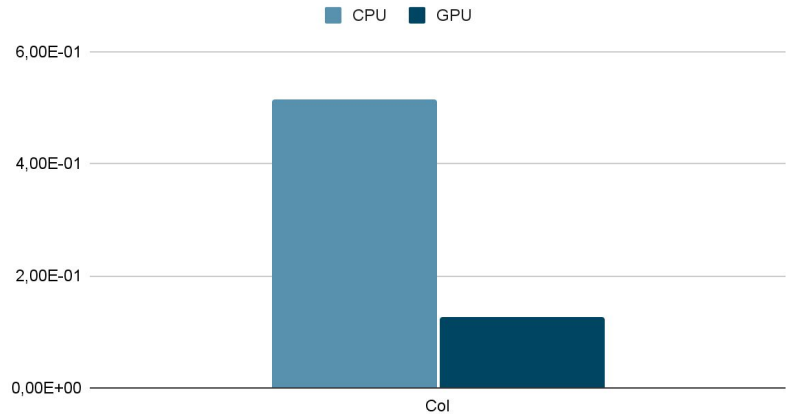


# Results - mat128\_256

mat128\_256

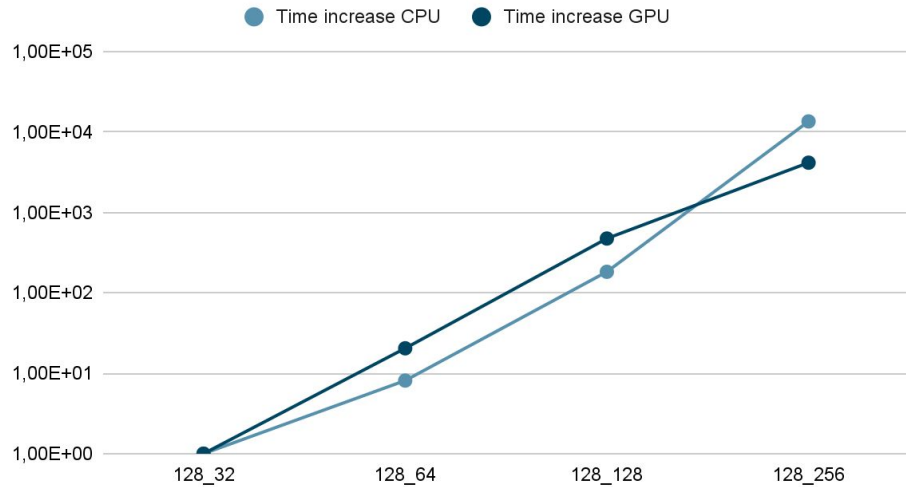


Time

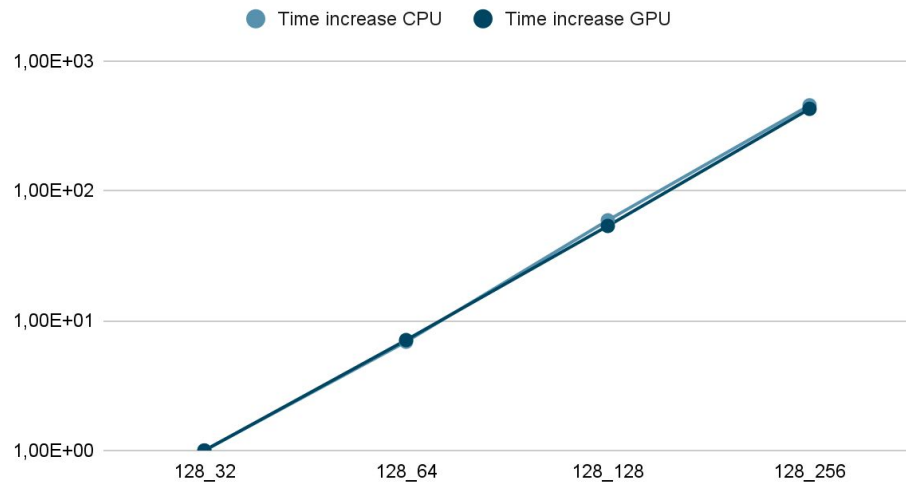


# Processing time comparison

Time increase algorithm Rows



Time increase algorithm Cols

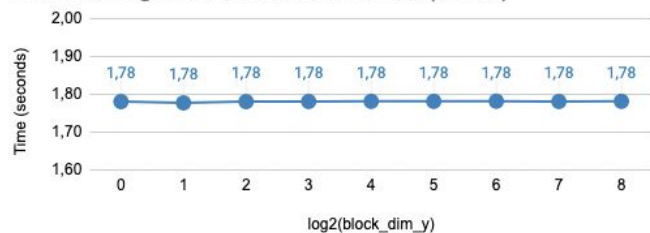


# Results GPU - mat128\_256

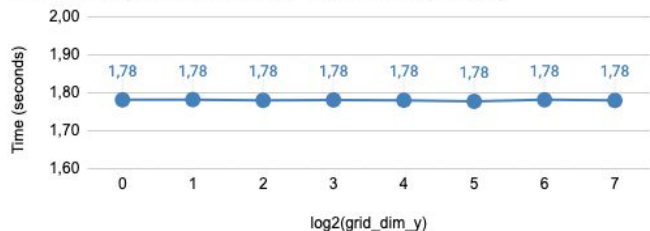
Constant performance independently of both the grid and the block structure

## Rows

### Block configuration results with Grid(128,1)

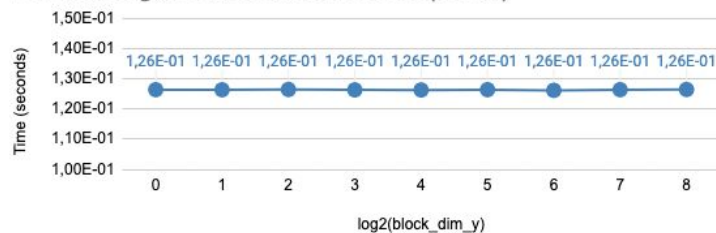


### Grid configuration results with Block(256,1)



## Cols

### Block configuration results with Grid(128,1)



### Grid configuration results with Block(256,1)

