1 Prerequisites

- You have completed all week 1 lectures or videos
- You have completed Lab0 (MP0)
- Chapter 2 of the text book would also be helpful

2 环境配置

根据目录中的 rai_build.yml 反推出 makefile 文件内容:

```
WB = $\{WB_DIR\}
    .DEFAULT_GOAL := cleanall
    .PHONY: clean cleanall
    all: template
    template: template.cu
    nvcc -std=c++11 -rdc=true -I $(WB) -c template.cu -o template.o
    nvcc -std=c++11 -o template template.o $(WB)/lib/libwb.so
8
    bash run_datasets
    clean:
    -rm -f template.o
11
12
13
    cleanall: clean
14
    rm -f template
15
16
17
```

3 Instruction

- You should edit the code in 'template.cu' to perform the following:
 - Allocate device memory
 - Copy host memory to device
 - o Initialize thread block and kernel grid dimensions

3 INSTRUCTION 2

- $\circ\,$ Invoke CUDA kernel
- o Copy results from device to host
- \circ Free device memory
- Write the CUDA kernel

Instructions about where to place each part of the code is demarcated by the '//@@' comment lines.

3 INSTRUCTION 3

实验结果如下 (截图)



图 1: lab1 实验结果

注意核函数是向量相加