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
bash run_datasets
clean:
-rm -f template.o


cleanall: clean
rm -f template


```

3 Instruction

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

- Invoke CUDA kernel
- Copy results from device to host
- Free device memory
- Write the CUDA kernel

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

实验结果如下 (截图)

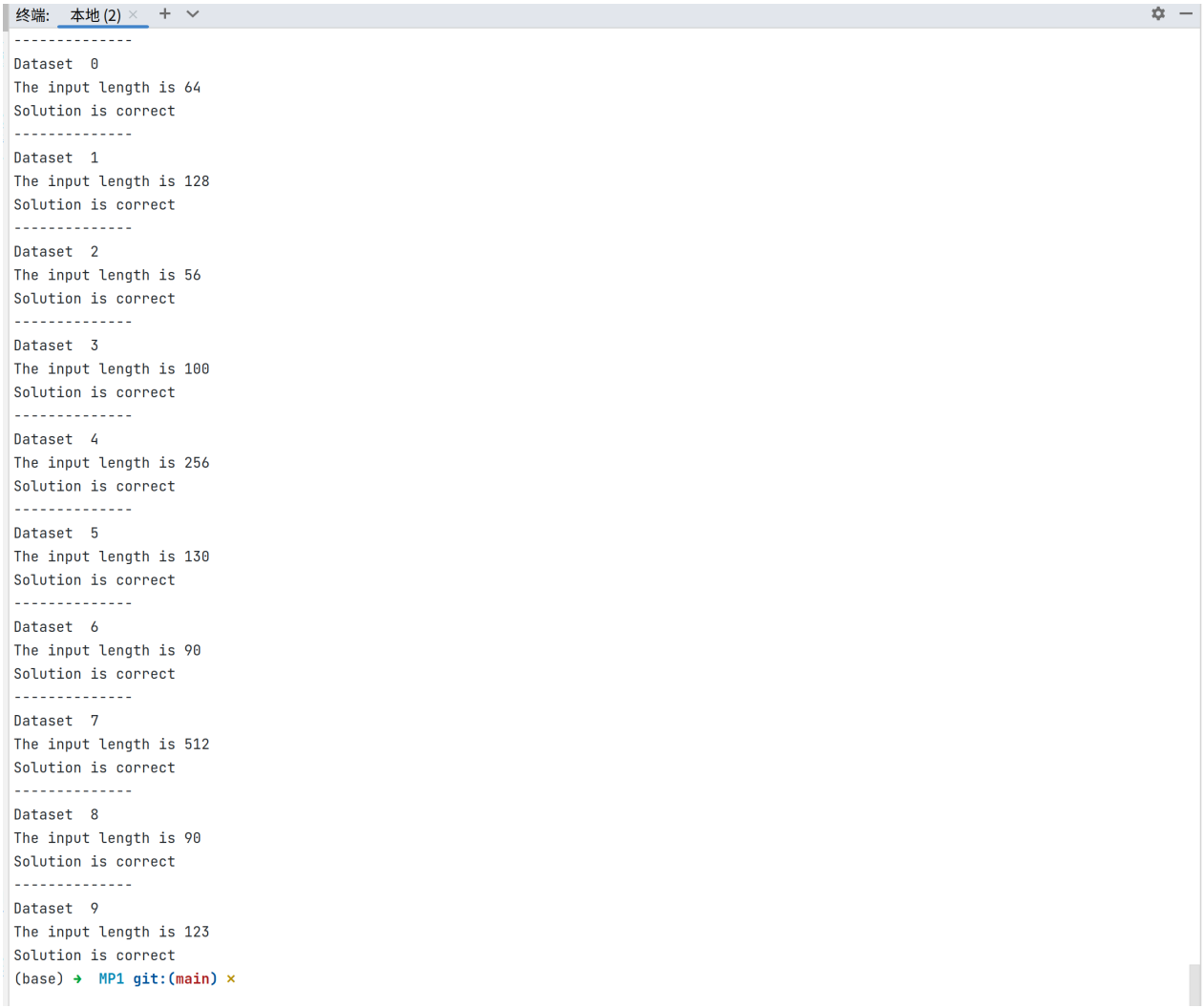

图 1: lab1 实验结果

注意核函数是向量相加