

GPGPU Assignment #0

TA: Yu Sheng Lin

Instructor: Wei Chao Chen

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1 Goals

You have to

1. Figure out the most suitable OS/IDE/editor for writing CUDA by yourself (Google it!).
2. Get familiar with CUDA syntax (You must have learnt it on the lecture).

2 Requirements

We won't provide instructions on compiling the source code which we provided.

In this assignment you have to write a simple text transformer in CUDA. We have provide a skeleton and some utilization functions (`SyncedMem<T>` and `MemoryBuffer<T>`).

Here we provide some possible examples:

```
1 ./a.out test.txt
2 LOREM IPSUM DOLOR SIT AMET, CONSECTETUR ADIPISCING ELIT. QU
3 ...
```

Listing 1: Convert all characters to be captial.

```
1 ./a.out test.txt
2 Olerm piusm odolr ist mate, ocsnceetutr dapisiicgn leti. Uq
3 ...
```

Listing 2: Swap all pairs in all words (Note: this is quite hard).

3 Submission

- The deadline is 2016/3/2 23:59 (Wed.).
- If you fails to submit the code in time, then you will be unregistered from this course.
- TA will clone your code through Git using script, just keep revise and TA will clone your code on time.

- You will be required to fill the repo address form, and I will test your submission on 2016/3/1 23:59 so you can make up before the deadline.
- If you use Bitbucket, please make sure that your code can be cloned by this account: <https://bitbucket.org/johnjohnlys/>.
- If you use an address without password, please don't let others copy your code, or your code will be count as plagiarism.