Create CUDA Project For CSC3150 Assignment 3

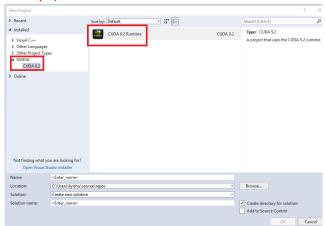
Environment:

- Win 10
- VS2017
- CUDA 9.2
- NVIDIA Geforce GTX 1060
- Compute capacity: 6.1

Configuration steps:

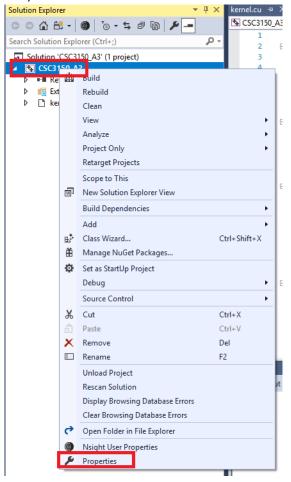
- 1. Launch VS2017
- 2. Create CUDA project

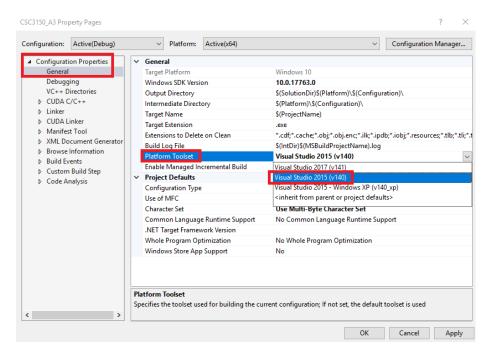
(If you're using PCs in TC301, change the project storing location in this step. Please ensure storing your CUDA project in D disk, rather than C disk, where will auto delete users' data every 30 days.)



3. There will be a "kernel.cu" automatically created.

4. Select and right click the project, open its properties. Update the platform toolkit as 'Visual Studio 2015(v140)'

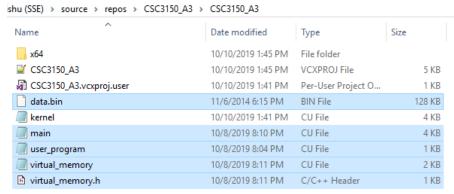




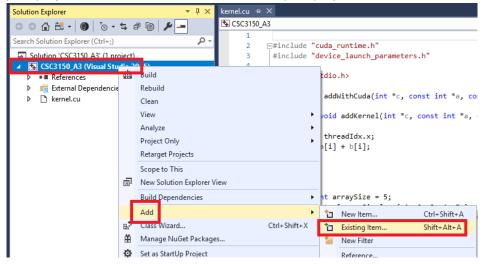
5. Press "Ctrl"+"F5" to run the project. If the calculation results being displayed correctly in console, it means your CUDA project settings is correct.

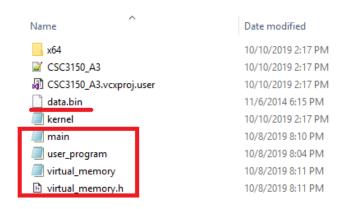


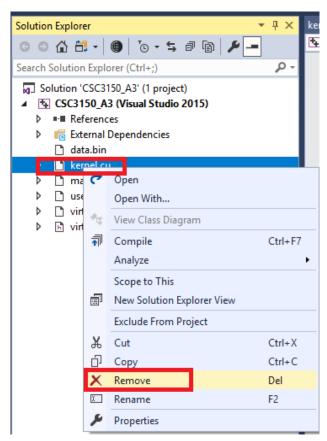
6. Copy provided source code into your project folder. ('main.cu', 'user_program.cu', 'virtual_memory.cu', 'virtual_memory.h', 'data.bin')

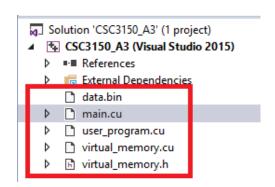


7. In Visual Studio, select and right click your project, add exiting items (the source codes) into your project. And remove the 'kernel.cu' from your project.

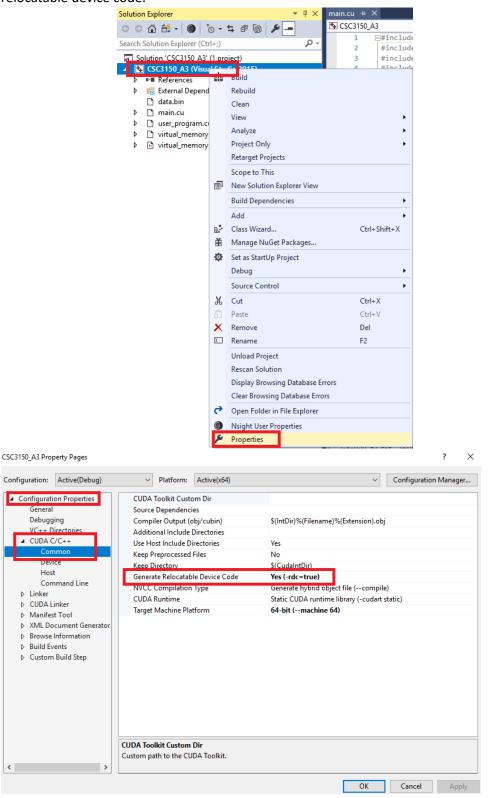








8. Select the project and right click it. Open its properties, allow the CUDA files to generate relocatable device code.



9. For those three cuda files (.cu), right click to compile them. (Or use 'Ctrl'+'F7'). Then press "Ctrl"+"F5" to run your program.

For the provided template, you will get output as below:

```
input size: 131072
pagefault number is 0

C:\Users\liyishu\source\repos\CSC3150_A3\x64\Debug\CSC3150_A3.exe (process 8116) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.

Press any key to close this window . . .
```

10. In "virtual_memory.cu", start your programming.