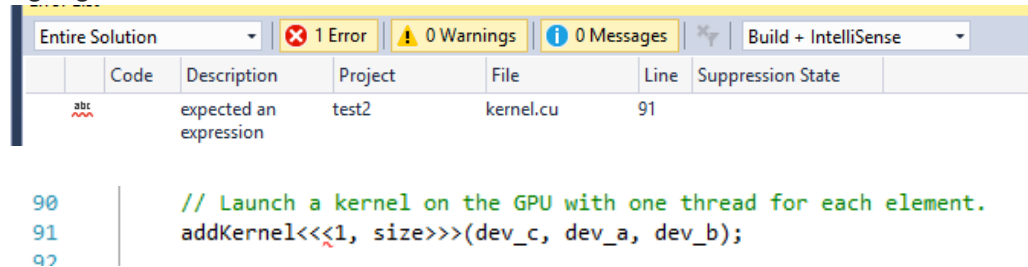
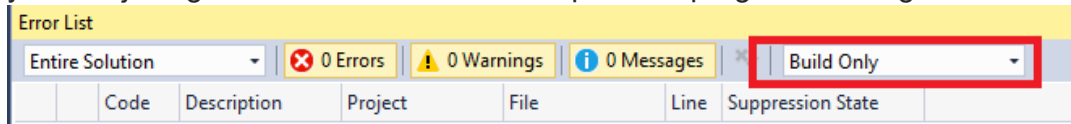


1. When compiling the CUDA project in Visual Studio, you may get such case. The program runs well, no compile error, but you will still see an IntelliSense Error “expected an expression”, and the third “<” in your kernel function is highlighted with red.







For this case, ignore this error is fine. Visual Studio provides IntelliSense for C++, but “<<<” syntax is for CUDA.

If you want to get rid of this error, change the build setting as “Build only”. Or you can just ignore this error. It will not impact our program running.



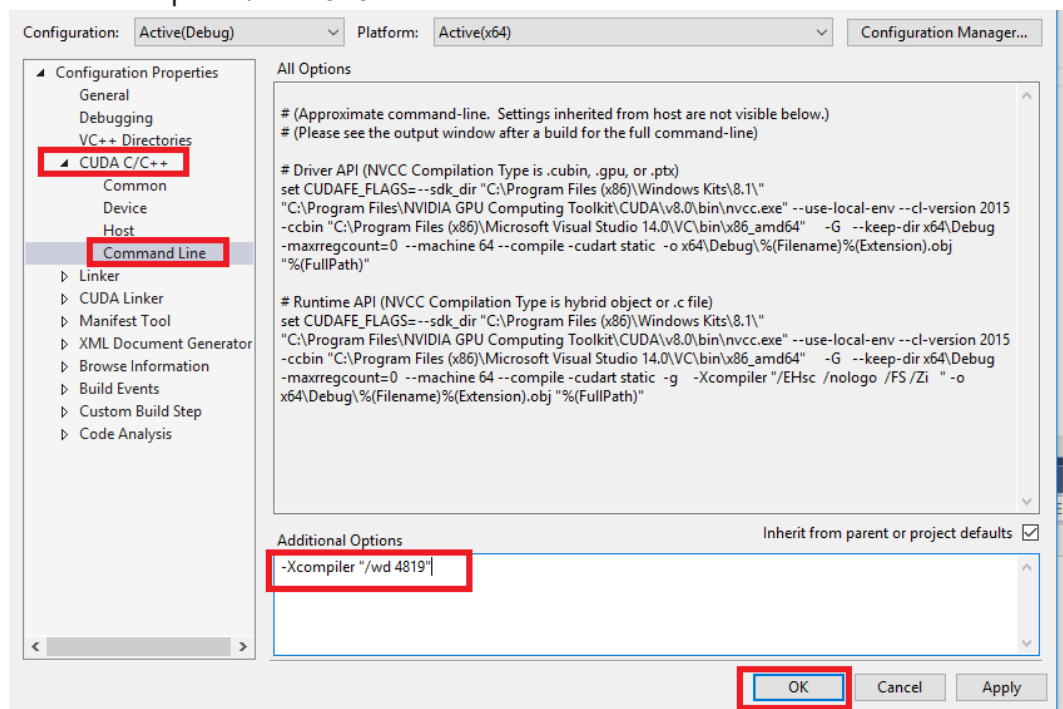
But if you get other compile error, then check your code or setting please.

2. After you create CUDA project, and run the provided “kernel.cu”, you may get C4819 warnings about Unicode format of the source file.

 C4819	The file contains a character that cannot be represented in the current code page (936). Save the file in Unicode format to prevent data loss	test3	device_functions. 1 h
 C4819	The file contains a character that cannot be represented in the current code page (936). Save the file in Unicode format to prevent data loss	test3	device_functions. 774 h
 C4819	The file contains a character that cannot be represented in the current code page (936). Save the file in Unicode format to prevent data loss	test3	device_functions. 1618 h
 C4819	The file contains a character that cannot be represented in the current code page (936). Save the file in Unicode format to prevent data loss	test3	math_functions.h 1

For this case:

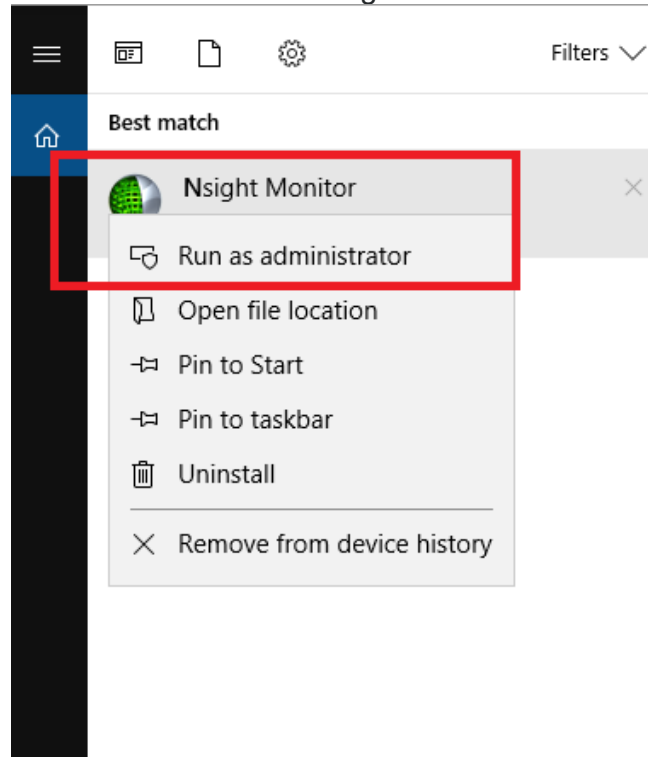
- 1) Select the project and right click
- 2) Select “Properties”
- 3) Expand “CUDA C/C++” and select “Command Line”
- 4) Add “-Xcompiler "/wd 4819"" at the end.



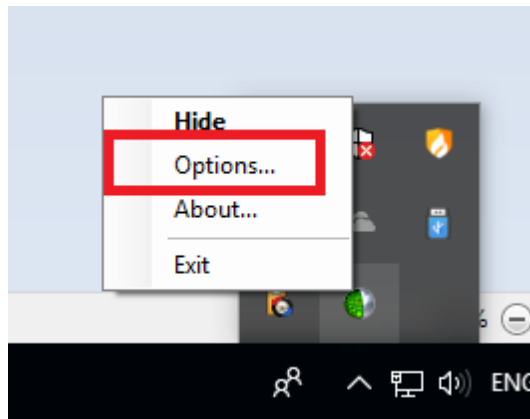
3. When running your program, you may find the screen flashes to black and the CUDA function terminates. This is because the PC default setting of TDR Delay is 2 seconds. But your program may occupy more GPU running time.

To solve it, change the TDR Delay of your computer.

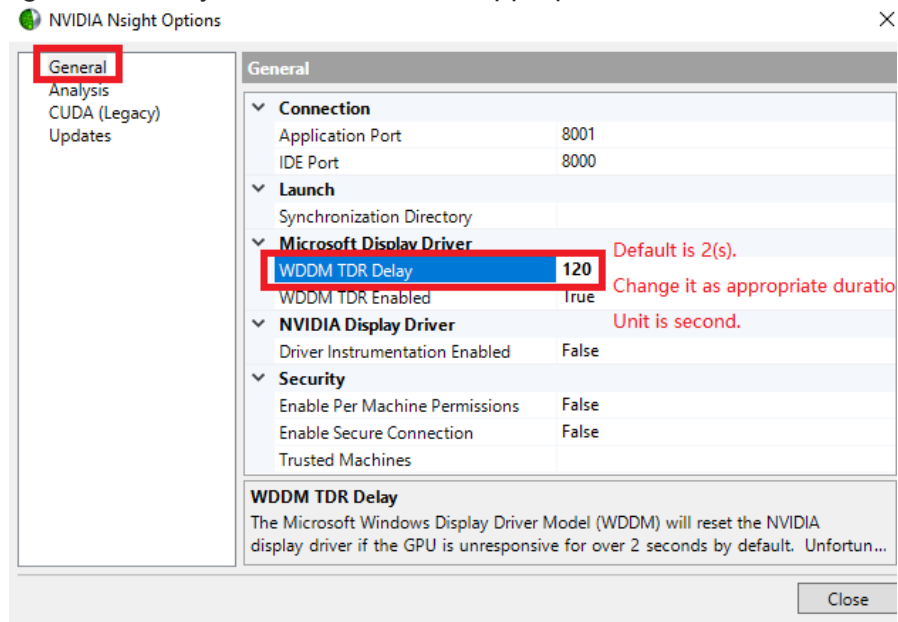
- 1) Run "NSight Monitor.exe" with admin right.



- 2) Open its option



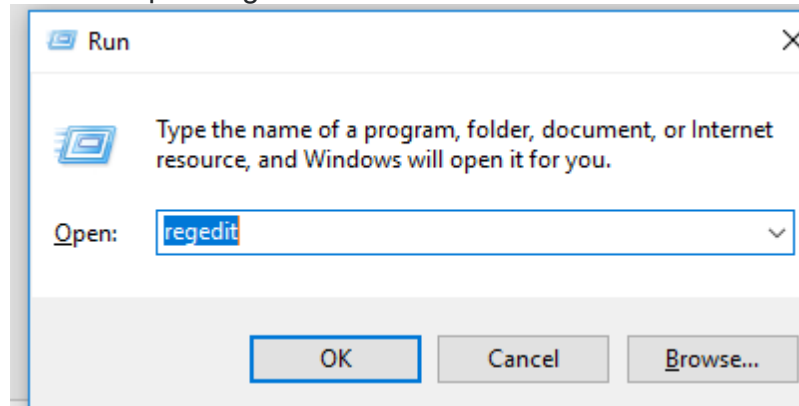
3) Change TDR Delay from 2 seconds to appropriate duration.



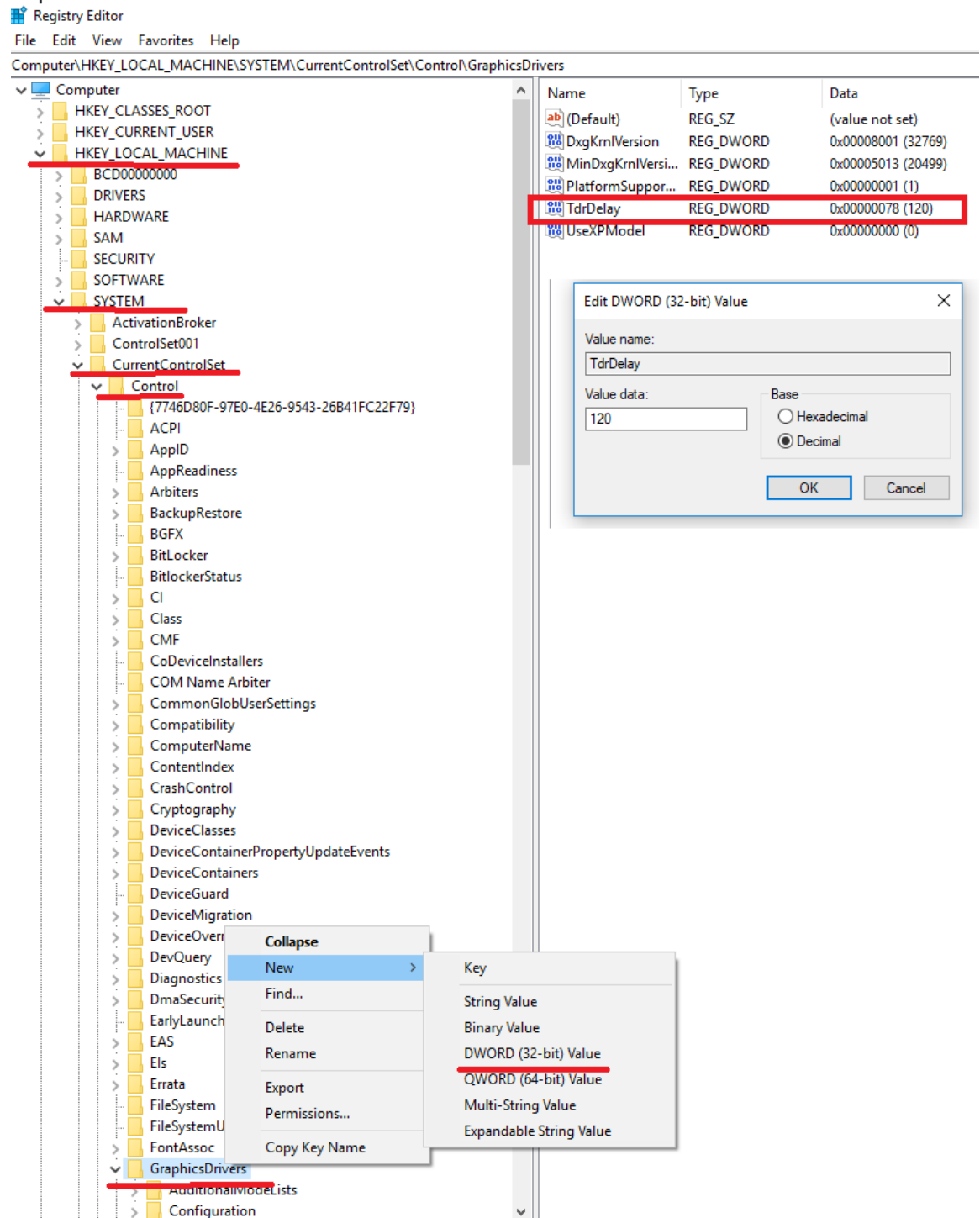
4) Restart your machine to make it works.

If NSight Monitor is not installed in your PC, then follow below steps:

1) Open 'Run' and open 'regedit' from run.



- 2) In “HKEY\_LOCAL\_MACHINE -> System -> CurrentControlSet -> Control -> GraphicsDrivers”, change the TdrDelay as expected duration. If this setting does not exit, add a new DWROD value and edit its value as expected duration.



- 3) Restart your computer to make it works.