Aung Myin Kyaw (Max) weekly Research Progress Report

Date : 29/09/2018 to 06/09/2018

- **Scope of the work:**
  - ✓ **Printing of the data to csv file and understanding the values**

➢ Research Progress in last week

- This is week I was able to collect data into the csv file (the file is attached as ‘test1.csv). The code I used to collect data is attached in the following slide.

- However, the data collected does not tally with the data I downloaded from Thorlabs which is attached as ‘testthorlabs.csv’. Thus, for the coming week I will be examining the representation of the values that are collected.

- After analyzing both Thorlabs program and my own program I had realized that both have different integration time. Thorlabs has integration time of 2.33 second while my program I set it as 0.1 sec.

➢ Research Progress in last week

- Thus, I changed my program integration time to 2.33 sec which is the same as Thorlabs using the following code.

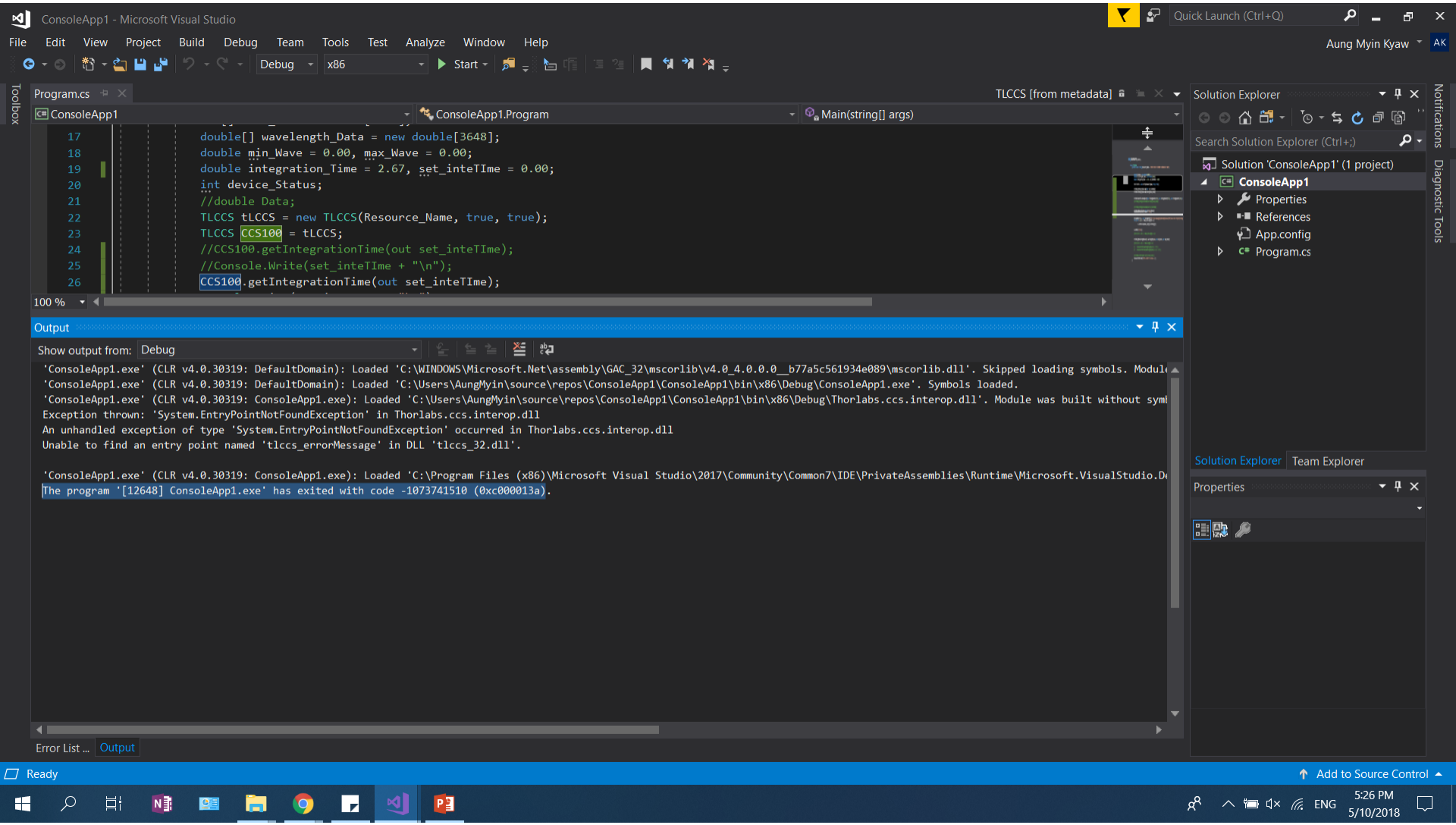
```
double set_integrationtime = 2.33, get_integrationtime = 0.00
CCS100.setIntegrationTime(set_integrationtime );
Console.Write(set_integrationtime + "\n");
CCS100.getIntegrationTime(out get_integrationtime );
Console.Write(get_integrationtime + "\n");
```

The above lines of code will set the integration time to 2.33 and get the integration time from the system to print it out. Printing out of the integration time is to ensure that the timing was set correctly.

➢ Research Progress in last week

- However, after I set the integration time to 2.33 second I was unable to do scanning and collect the data to csv file. There was an error whenever it reaches the collection of data line of code in the program, an error can be seen in the photo below.

- I have tried to changed to other integration time there is still an error. I need to further examine the program to ensure it was not my line of codes error. This is because the error that throwing is from the main library which was written by Thorlabs.


ConsoleApp1 - Microsoft Visual Studio
File Edit View Project Build Debug Team Tools Test Analyze Window Help
Aung Myin Kyaw
Debug x86 Start
Program.cs
TLCCS [from metadata]
ConsoleApp1
ConsoleApp1.Program
Main(string[] args)
double[] wavelength_Data = new double[3648];
double min_Wave = 0.00, max_Wave = 0.00;
double integration_Time = 2.67, set_inteTIme = 0.00;
int device_Status;
//double Data;
TLCCS tLCCS = new TLCCS(Resource_Name, true, true);
TLCCS CCS100 = tLCCS;
//CCS100.getIntegrationTime(out set_inteTIme);
//Console.Write(set_inteTIme + "\n");
CCS100.getIntegrationTime(out set_inteTIme);
100 %
Output
Show output from: Debug
'ConsoleApp1.exe' (CLR v4.0.30319: DefaultDomain): Loaded 'C:\WINDOWS\Microsoft.Net\assembly\GAC_32\mscorlib\v4.0_4.0.0.0__b77a5c561934e089\mscorlib.dll'. Skipped loading symbols. Module
'ConsoleApp1.exe' (CLR v4.0.30319: DefaultDomain): Loaded 'C:\Users\AungMyin\source\repos\ConsoleApp1\ConsoleApp1\bin\x86\Debug\ConsoleApp1.exe'. Symbols loaded.
'ConsoleApp1.exe' (CLR v4.0.30319: ConsoleApp1.exe): Loaded 'C:\Users\AungMyin\source\repos\ConsoleApp1\ConsoleApp1\bin\x86\Debug\Thorlabs.ccs.interop.dll'. Module was built without symb
Exception thrown: 'System.EntryPointNotFoundException' in Thorlabs.ccs.interop.dll
An unhandled exception of type 'System.EntryPointNotFoundException' occurred in Thorlabs.ccs.interop.dll
Unable to find an entry point named 'tlccs_errorMessage' in DLL 'tlccs_32.dll'.
'ConsoleApp1.exe' (CLR v4.0.30319: ConsoleApp1.exe): Loaded 'C:\Program Files (x86)\Microsoft Visual Studio\2017\Community\Common7\IDE\PrivateAssemblies\Runtime\Microsoft.VisualStudio.De
The program '[12648] ConsoleApp1.exe' has exited with code -1073741510 (0xc000013a).
Solution Explorer
Search Solution Explorer (Ctrl+;)
Solution 'ConsoleApp1' (1 project)
ConsoleApp1
Properties
References
App.config
Program.cs
Solution Explorer Team Explorer
Properties
Error List ... Output
Ready
Add to Source Control
ENG
5:26 PM
5/10/2018

➢ Research Plan for next week

- ❖ Further examine the error that I am currently facing.
- ❖ Start writing on the report for CA to be submitted on the Wednesday of Week 12 and for the presentation.

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