

**Document Title :** Procedure to build DD-42992S0 SDK Samples in Visual Studio – 2019

**Document No :** AN0007

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**Introduction :** This document explains the steps for creating a Visual Studio C++ console project to rebuild the samples provided by DDC's DD-42992S0 'C' SDK. Steps described are for Visual Studio 2019 but may be followed for other versions as well. The document is made with DD-42992S0 ver 4.4.2 for building 64-bit versions of the sample code but may be generally followed for other versions as well.

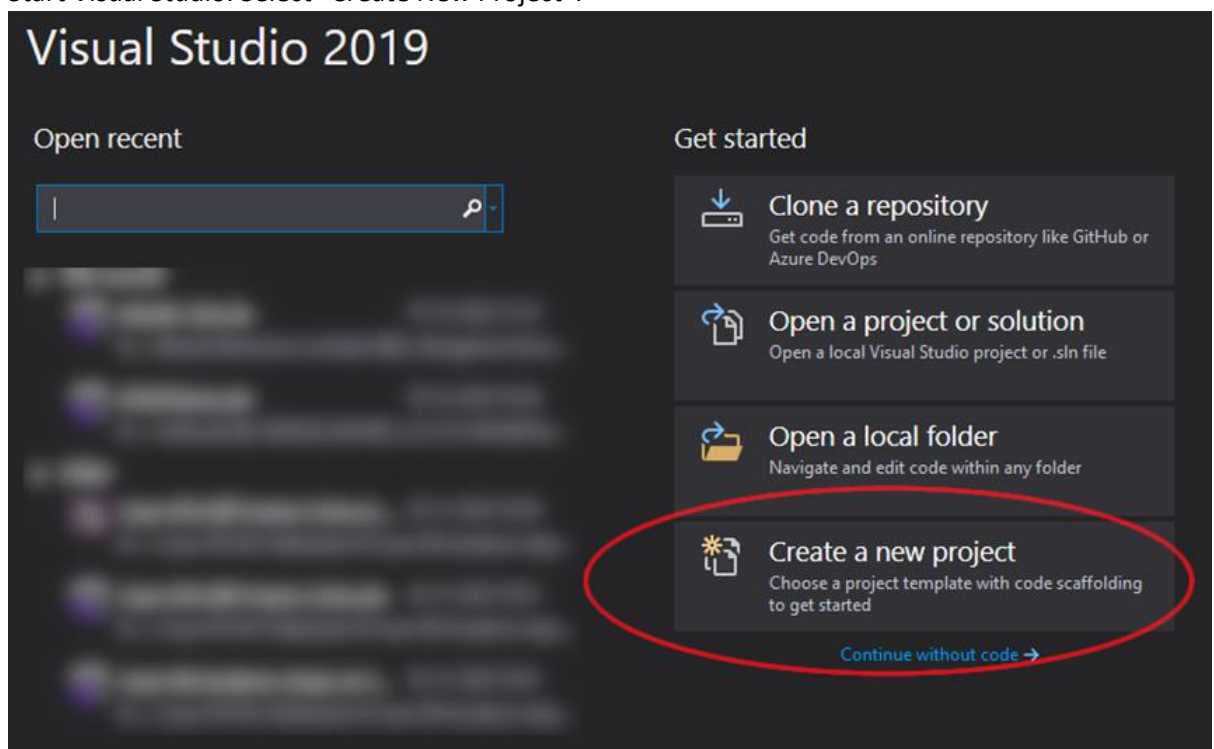
The same procedure may be followed to build your own DD-42992S0 'C' SDK based applications as well.

**Pre-requisites :**

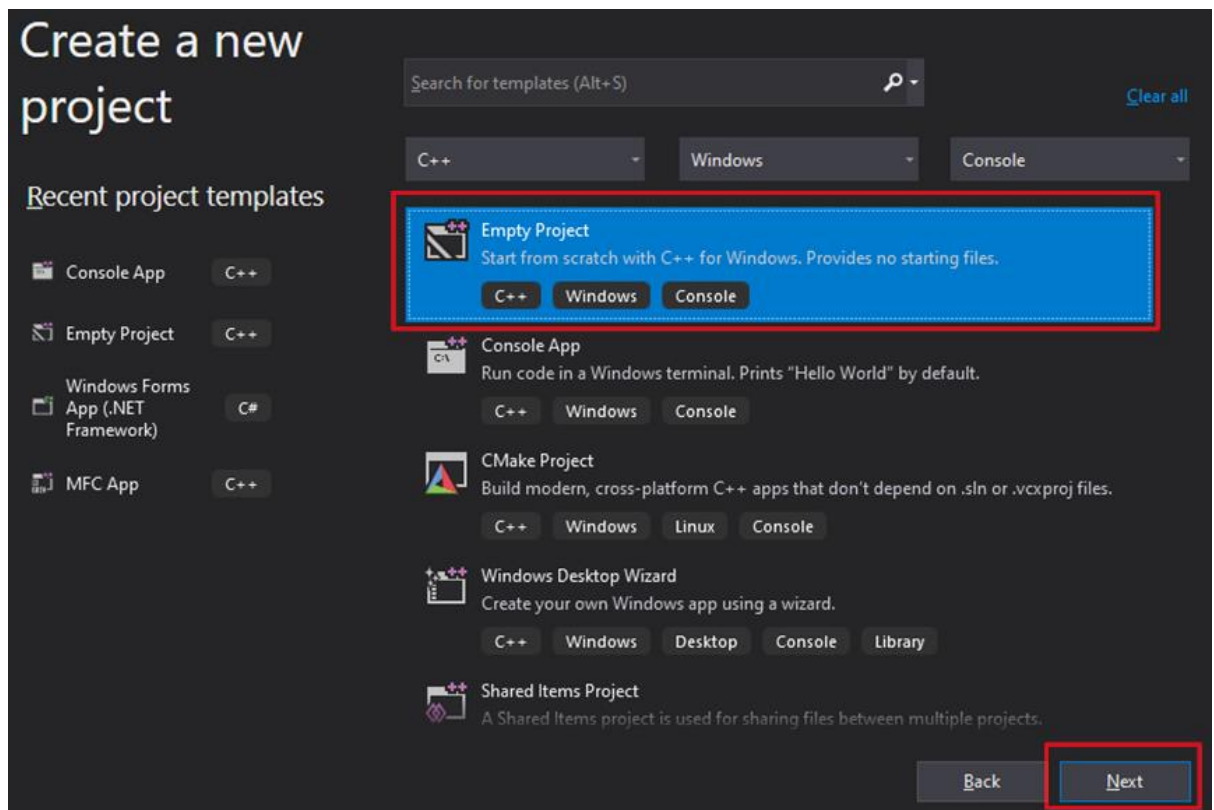
- a. DDC's DD-42992S0 'C' SDK for Windows must be installed.
- b. Visual Studio 2019 is installed.
- c. Although the steps described are in detail, familiarity in using Visual Studio will greatly help.

**Procedure :**

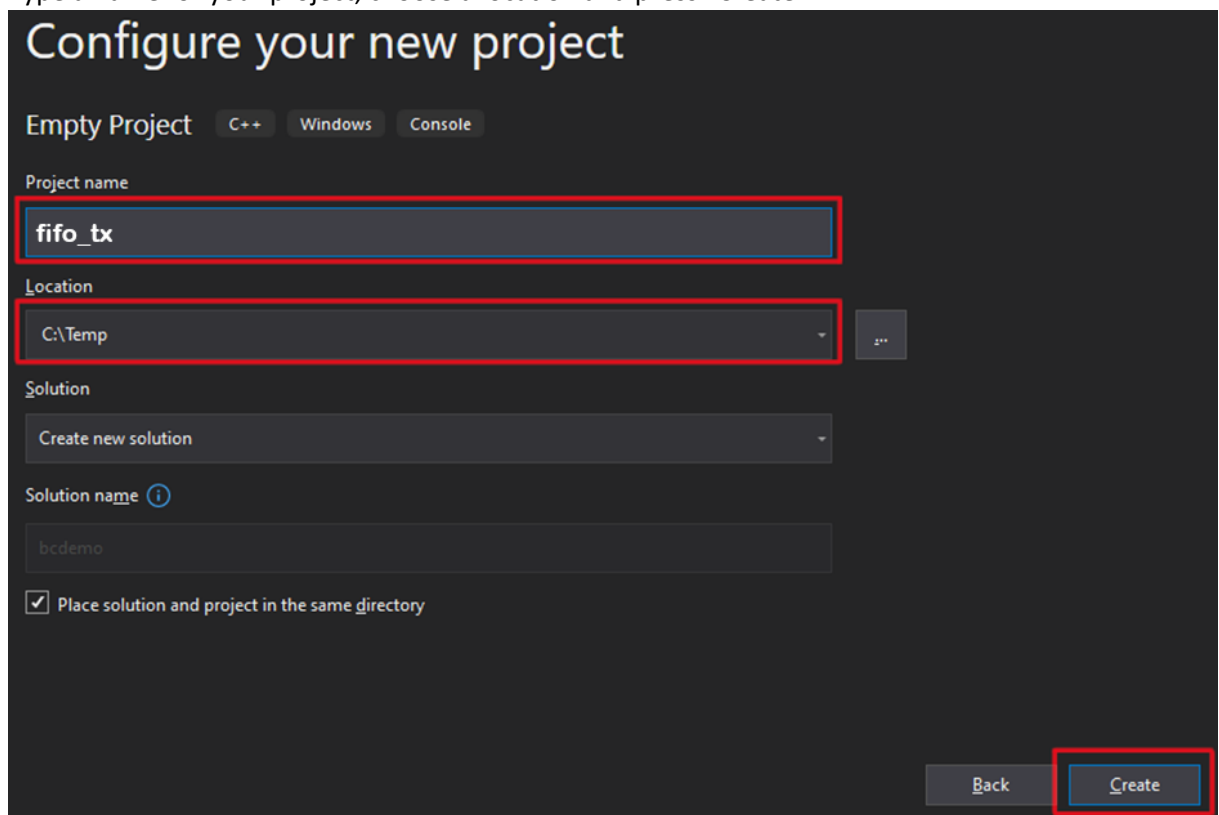
- 1) Start Visual Studio. Select "Create New Project".



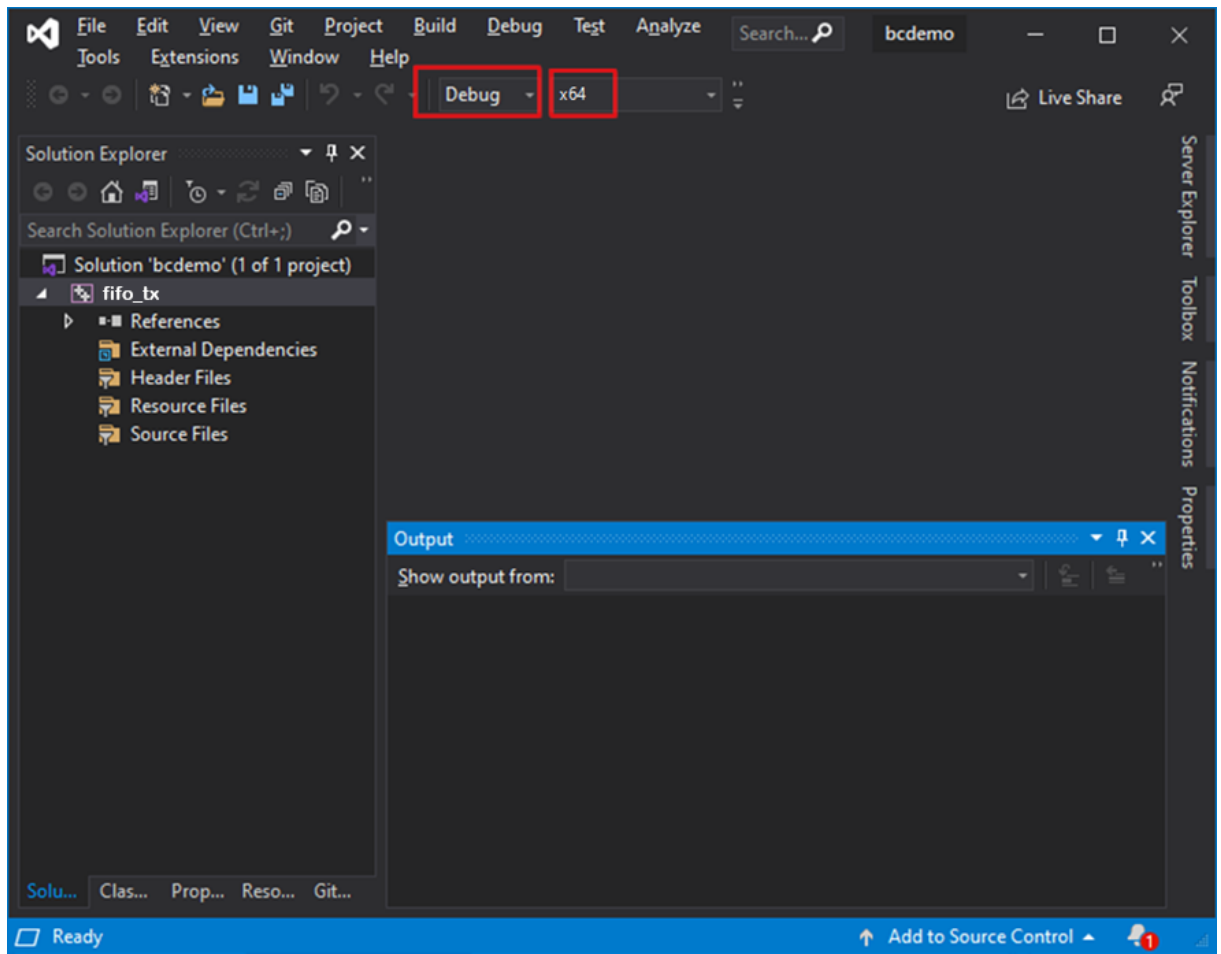
- 2) Select "Empty Project" and press "Next"



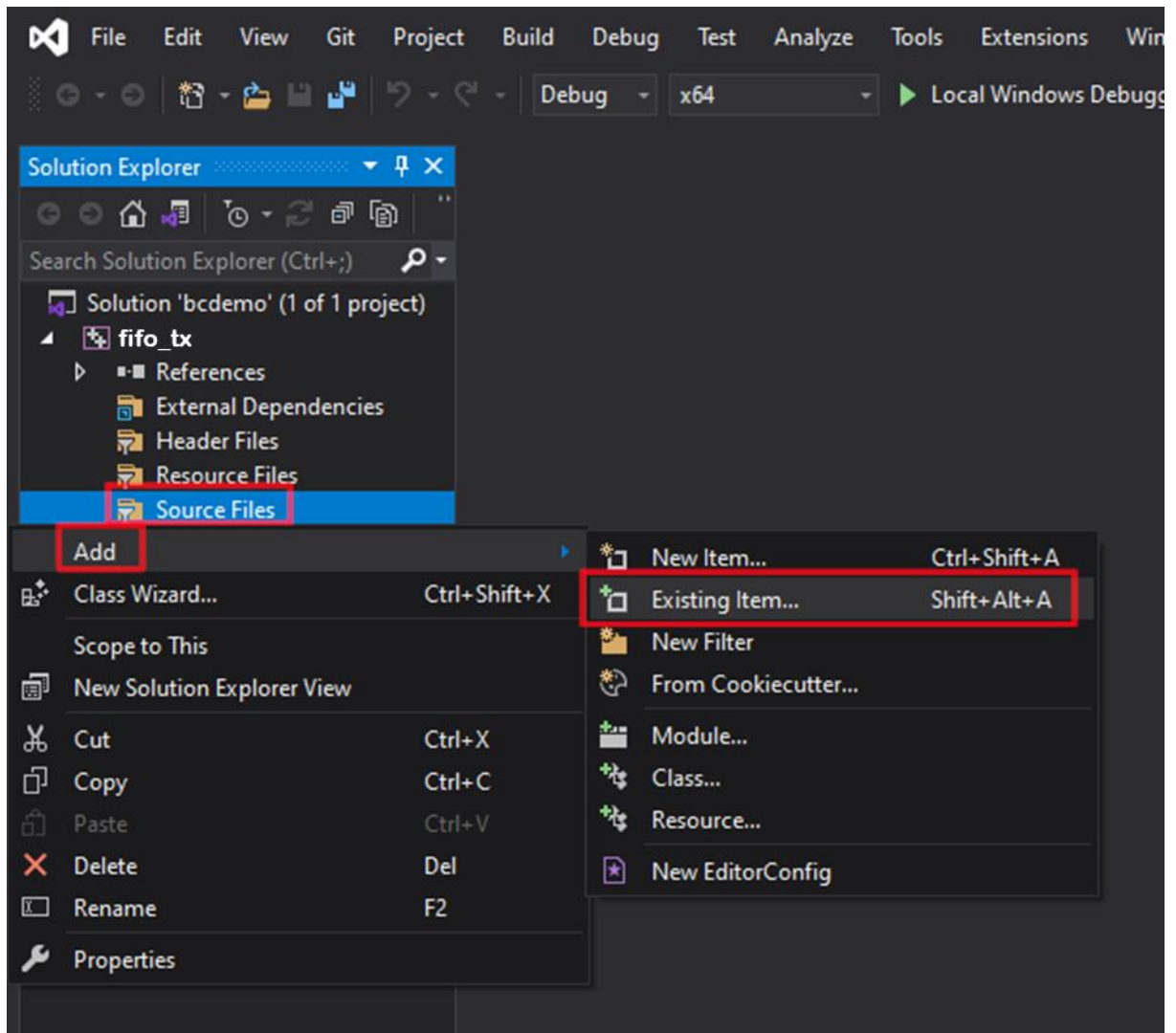
- 3) Type a name for your project, choose a location and press "Create".



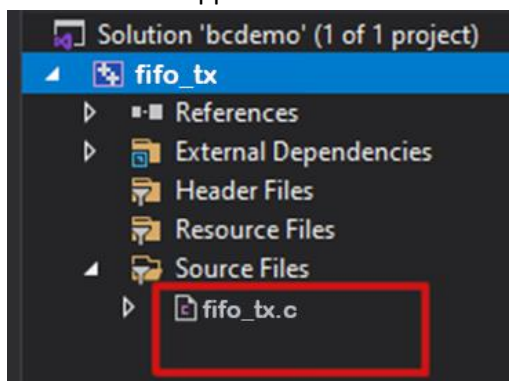
- 4) The project is created as below. Change the configuration to "Debug" and platform to "x64".



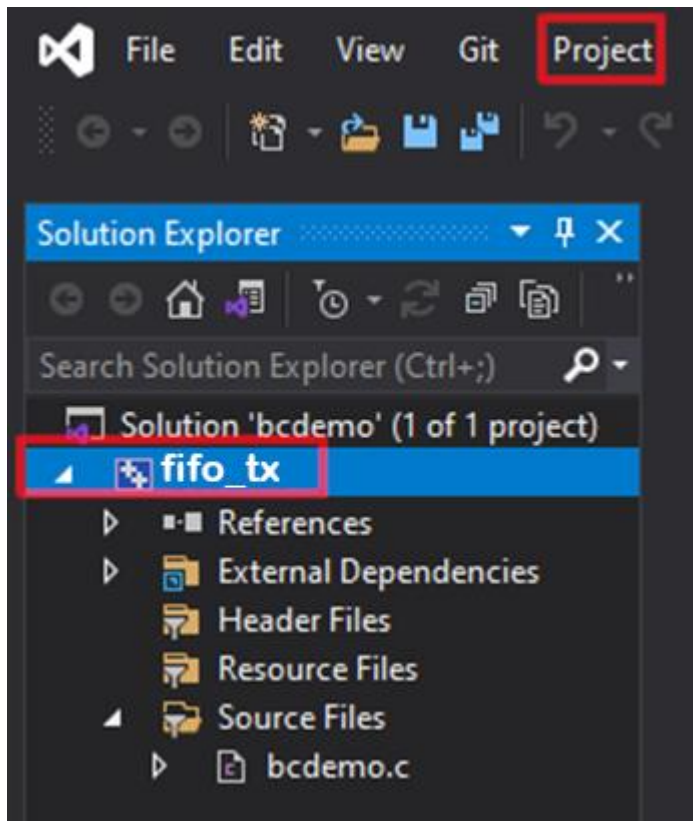
- 5) You may now add the sample .c file to the project. To do this right click on “Source Files”, choose “Add” and “Existing Item...”.



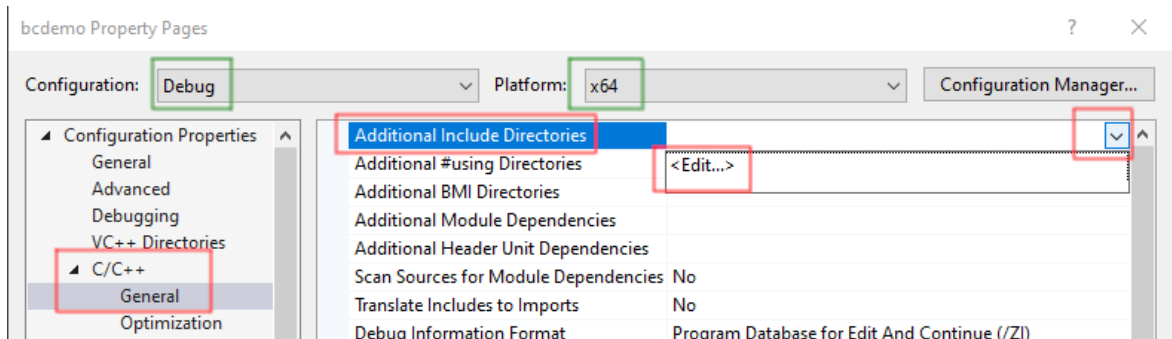
- 6) Browse to the folder containing the sample and choose the .c file.
- 7) The added file appears as below.



- 8) Open Project Properties by clicking on project name and then choosing menu "Project->Properties" or pressing Alt+F7.

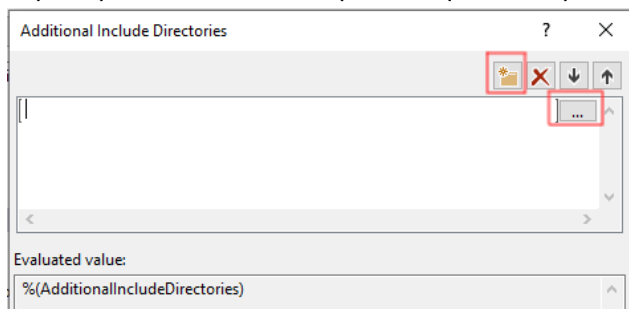


- 9) In Project Properties select Configuration as Debug, Platform as x64, click on “C/C++->General” and under “Additional Include Directories” click the down arrow and then “Edit”.

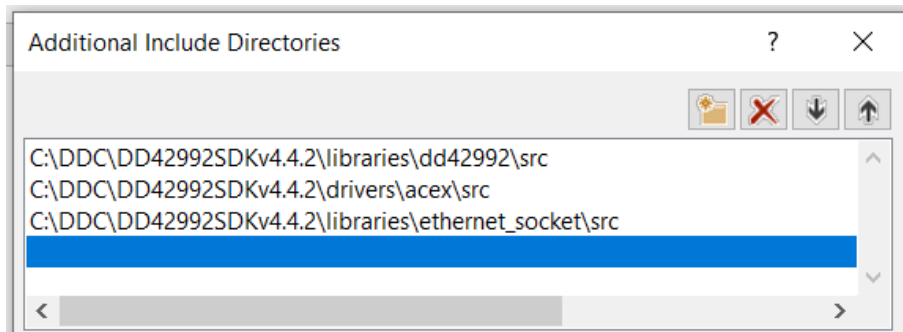


- 10) The “Additional Include Directories” pop up appears. Here click the folder icon (“New Line”) and the *browse* button. A “Select Directory” popup appears. Browse and select the following folder (note replace C:\DDC with the location at which the DD-42992S0 SDK was installed and DD42992SDKv4.4.2 with the name of your DD-42992S0 SDK folder):

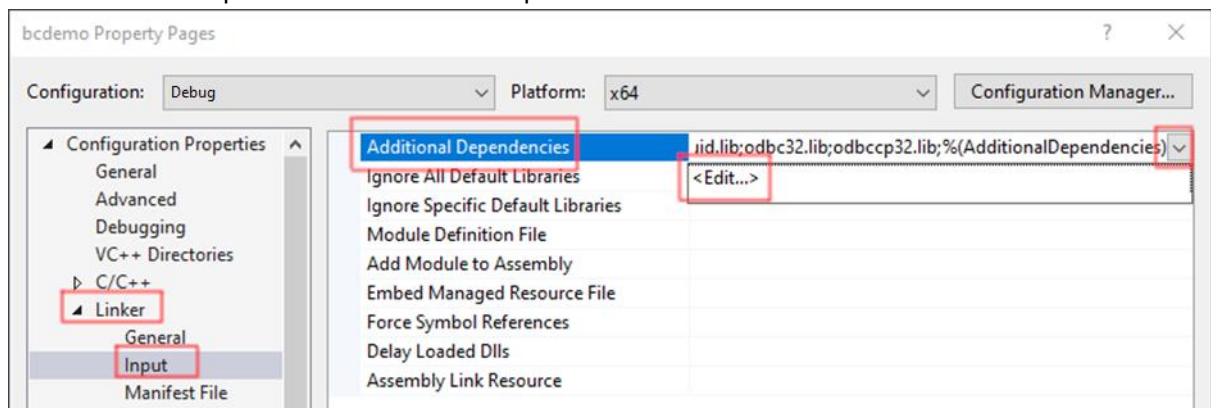
C:\DDC\DD42992SDKv4.4.2\libraries\dd42992\src



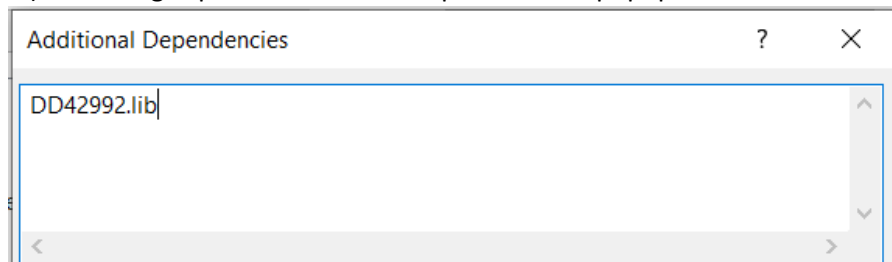
- 11) Repeat above step to add C:\DDC\DD42992SDKv4.4.2\drivers\acex\src and C:\DDC\DD42992SDKv4.4.2\libraries\ethernet\_socket\src folders. The added folders appear as below.



- 12) In Project Properties Window select "Configuration Properties->Linker->Input". Under "Additional Dependencies" click the drop-down arrow and click "Edit"

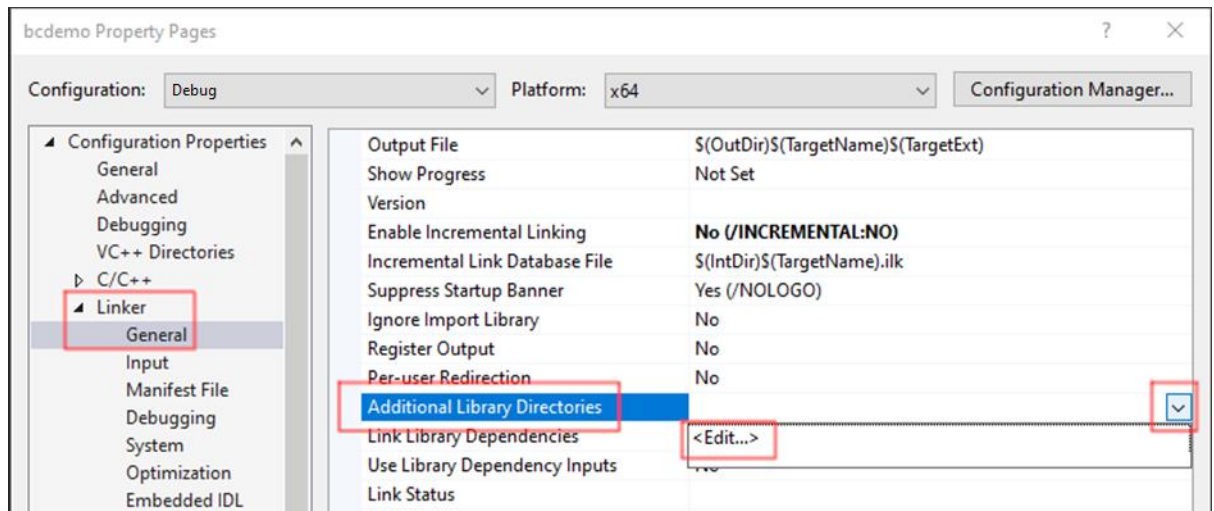


- 13) This brings up the "Additional Dependencies" popup. Enter "DD42992.lib" and click OK.



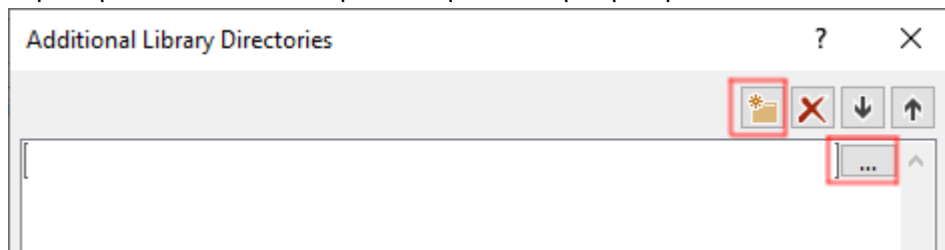
- 14) In Project Properties Window select "Configuration Properties->Linker->General". Under "Additional Library Directories" click the drop-down arrow and click "Edit".



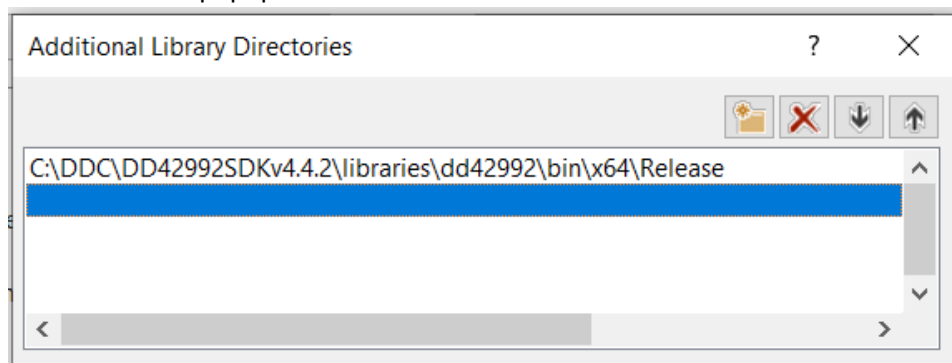


- 15) The “Additional Library Directories” pop up appears. Here click the folder icon (“New Line”) and the *browse* button. A “Select Directory” popup appears. Browse and select the following folder (note replace C:\DDC with the location at which the DD-42992S0 SDK was installed and DD42992SDKv4.4.2 with the name of your DD-42992S0 SDK folder:

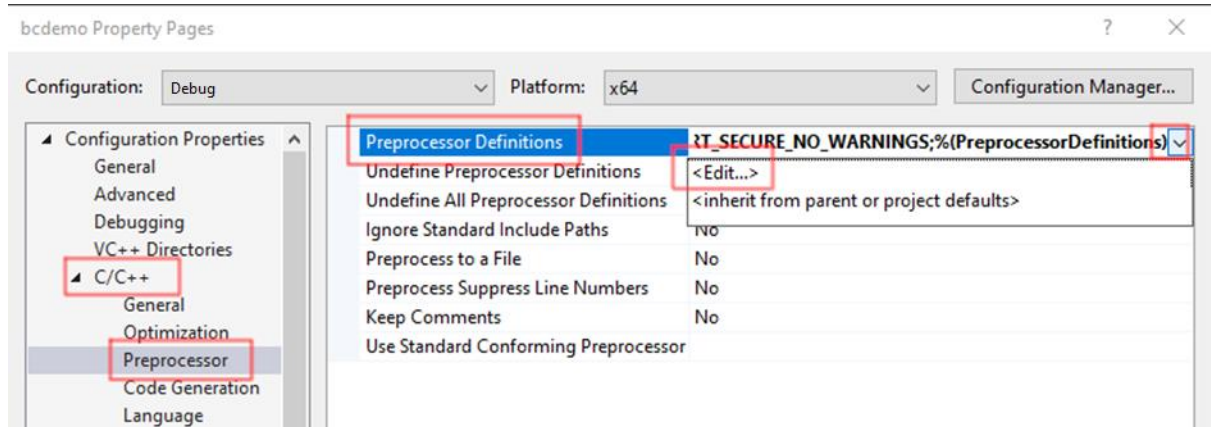
C:\DDC\DD42992SDKv4.4.2\libraries\dd42992\bin\x64\Release



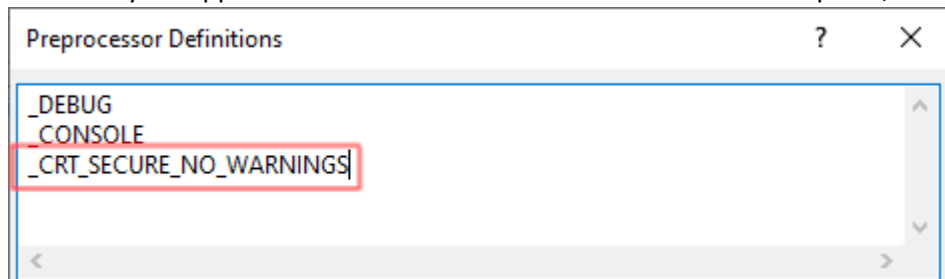
- 16) After folder selection above, the “Additional Library Directories” will appear as below. Click OK to close this popup.



- 17) In Project Properties dialog box, select C/C++ -> Preprocessor. Under “Preprocessor Definitions” click the drop-down arrow and click “Edit”.



- 18) The “Preprocessor Definitions” pop up appears. In the last line add a new entry with text “\_CRT\_SECURE\_NO\_WARNINGS” as below and click OK to close the popup. This step is only needed if your application used unsafe versions of ‘C’ functions like printf, scanf, sprintf etc.



- 19) This completes all settings to be made in Project Properties. In the Project Properties dialog box press “Apply” and then OK to close it.
- 20) Build the project (F7) and verify that there are no errors.