

Setting up Keil project to work with the iNemo board:

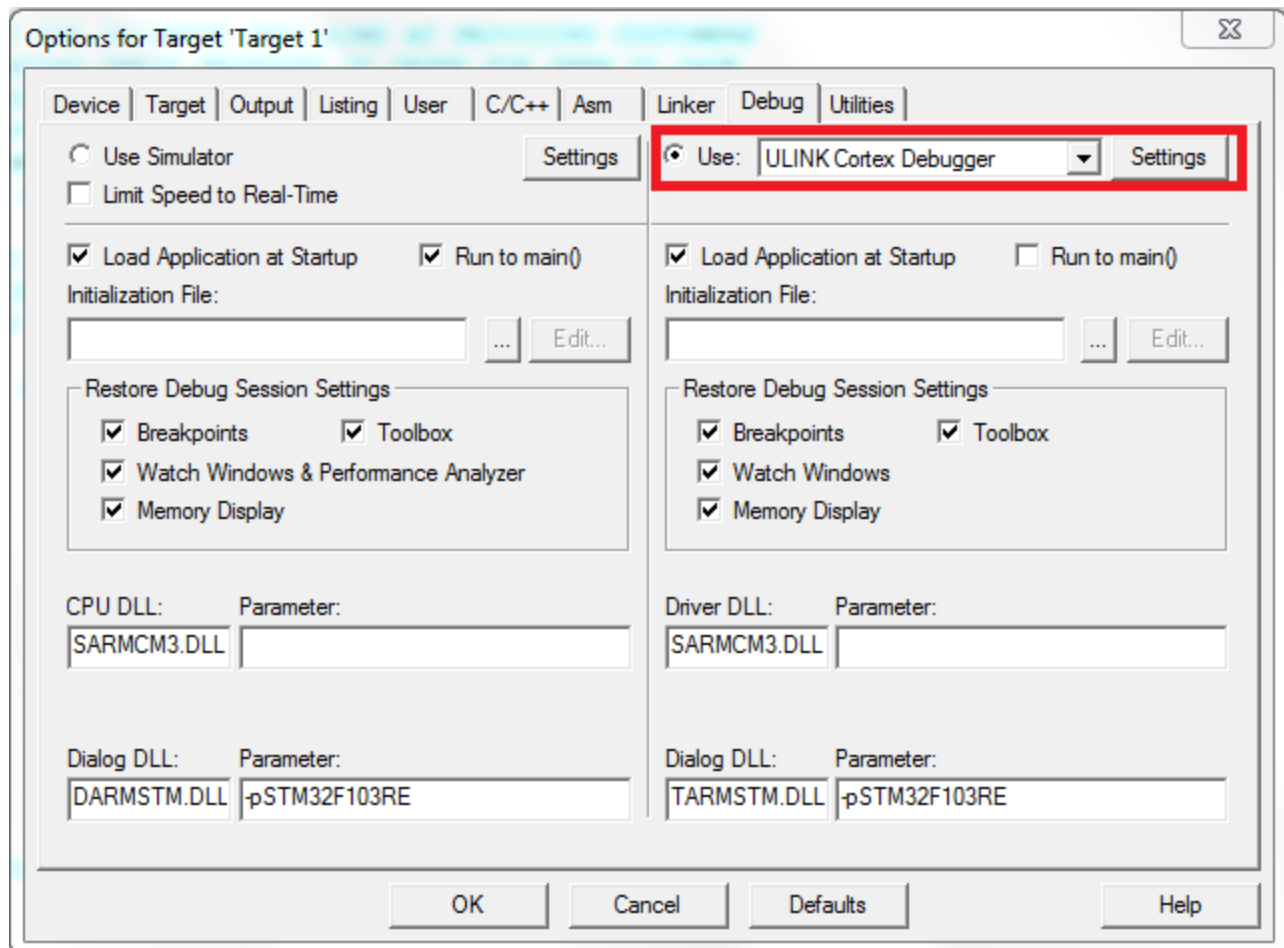
NOTE: Don't 'double click' to open the keil uvision projects instead to open project click: Project -> open project -> pick one of the letter drives ex: (\\Expo.campus.mcgill.ca\Home3\ECE) (M:) \Desktop

1) Setting up the debugger.

When debugging, make sure that the "ULINK Cortex Debugger" is selected.

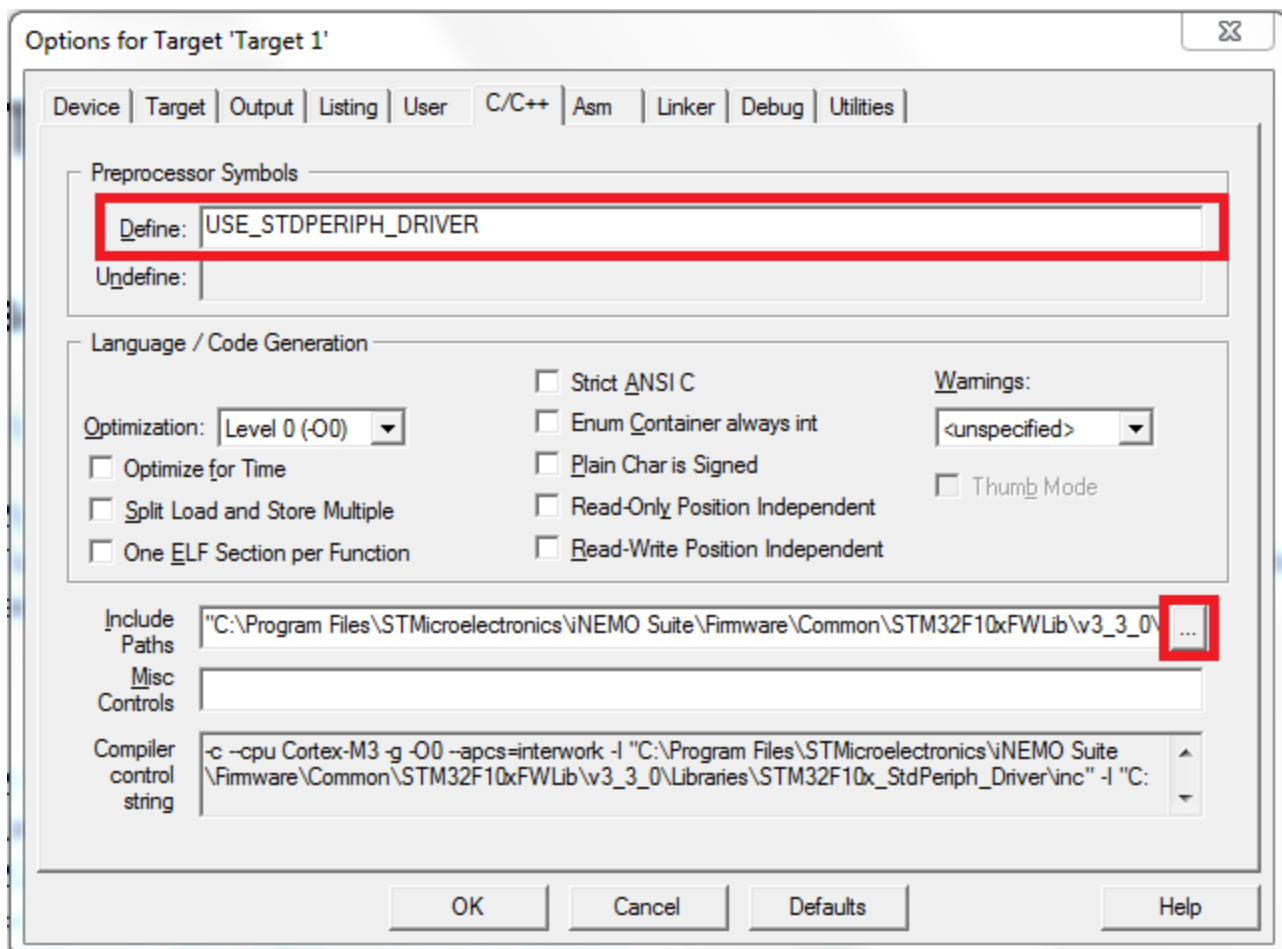
To do so:

Right-Click "Target 1" in the Project Window -> Options for target 1 -> Debug -> drop down -> "ULINK Cortex Debugger" -> click on "use" next to "ULINK Cortex Debugger".



2) Set the right target options.

Right-Click "Target 1" in the Project Window. Then click project -> options for target 1 -> C/C++



2.1) Set the additional preprocessor symbols.

Under Preprocessor Symbol, add "USE_STDPERIPH_DRIVER"

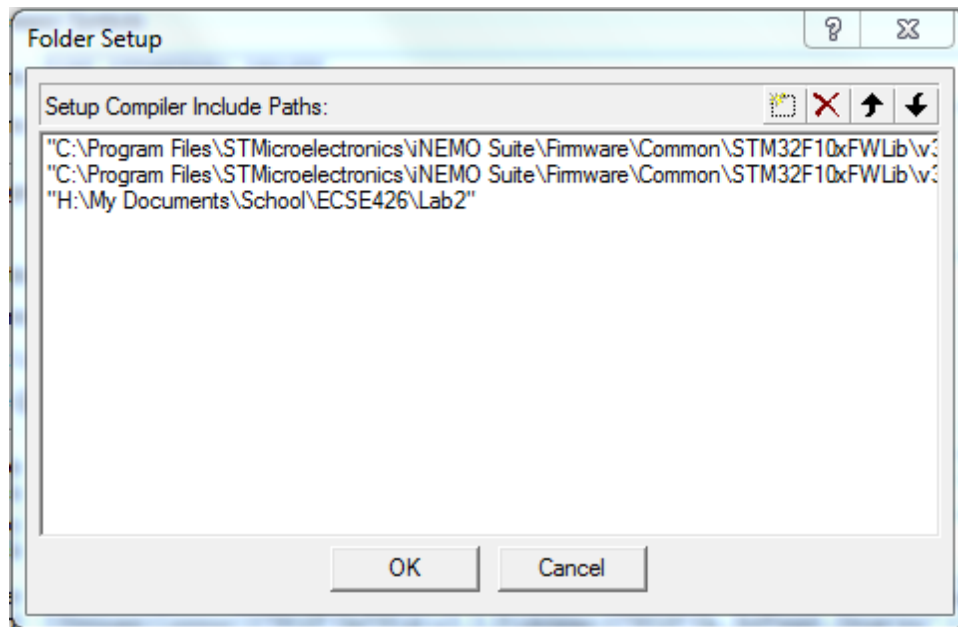
2.2) Set the right include paths to point to the right directories.

-> Include paths -> ... -> New (Insert) -> ... -> add the Following paths:

"C:\Program Files\STMicroelectronics\iNEMO Suite\Firmware\Common\STM32F10xFWLib\v3_3_0\Libraries\STM32F10x_StdPeriph_Driver\inc"

"C:\Program Files\STMicroelectronics\iNEMO Suite\Firmware\Common\STM32F10xFWLib\v3_3_0\Libraries\CMSIS\CM3\DeviceSupport\ST\STM32F10x"

Add your working directory to your include paths as well, and make sure you surround them with quotation marks, which will take care of the spaces in the paths



3) Add the appropriate source files to your project.

To add a file, you must do: Right-Click on "Target1" in your project window, and then click "Add files To Group (...)". It is good practice to copy them to your working directory first.

3.1) Add the header files located on WebCT to your project.

The files are "LSM303DLH.c" and "stm32f10x_conf.h" and are located on WebCT. Put them in your working directory.

3.2) Add the header files in the iNEMO development kit to your project.

Copy the file "HAL_LSM303DLH.h" to working directory. It is located in the following directory:
"C:\Program Files\STMicroelectronics\iNEMO Suite\Firmware\iNEMO_Project\iNEMO_Project\iNEMO_Lib\LSM303DLH\inc"
Then make sure to add these files to your "Source Group" in the Project window.

3.3) **Add the source files you might need for your project.**

Copy the remaining c files that you intend to use to your working directories and add them to your source group. These "C" files can be found in "C:\Program Files\STMicroelectronics\iNEMO Suite\Firmware\Common\STM32F10xFWLib\v3_3_0\Libraries\STM32F10x_StdPeriph_Driver\src" You might need more or less depending on what you will be using and the description of the labs. For example, I used the gpio.c, i2c.c and rcc.c files to do Lab2.