Creating an IAR Embedded Workbench project for TI HALCoGen generated files

This QuickStart Guide briefly describes how to create an IAR Embedded Workbench® project that uses files generated with the code generation tool HALCoGen from Texas Instruments.

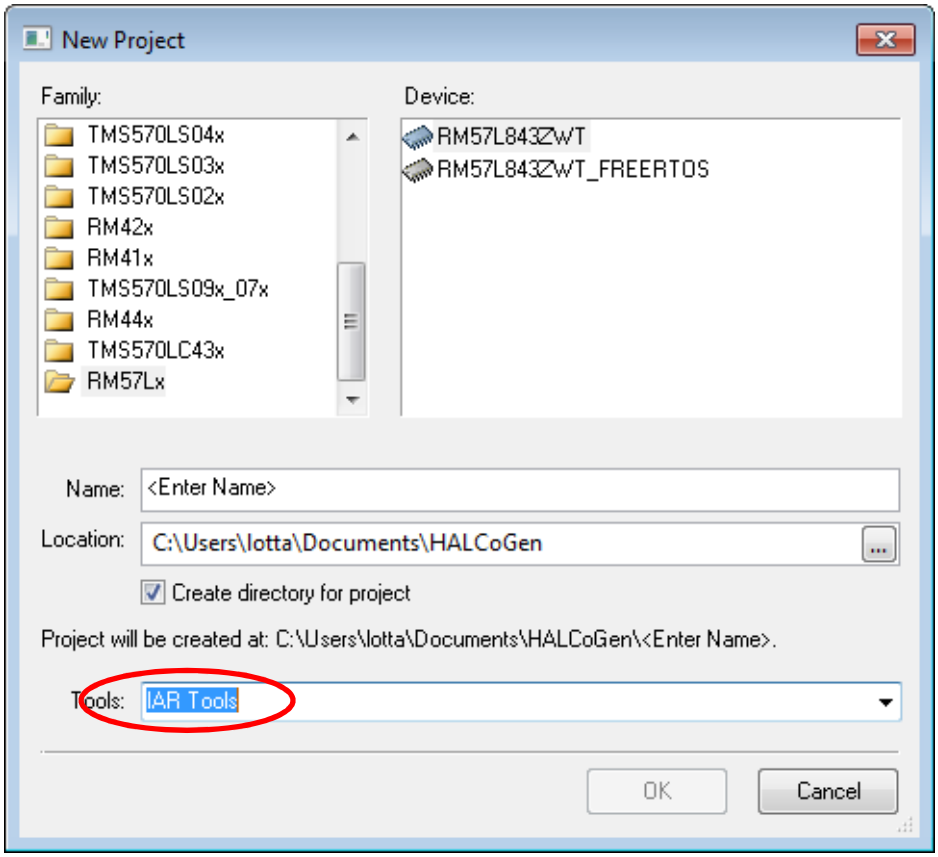
For more information about using IAR Embedded Workbench, see the user guides. These documents are available from the Help menu in the IAR Embedded Workbench IDE.

Set up a TI HALCoGen project for IAR Embedded Workbench

To create a new TI HALCoGen project, follow these steps:

1 Start TI HALCoGen.

2 Choose **New>Project** from the **File** menu.



3 Select Device family, Device, and the name and location for your project.

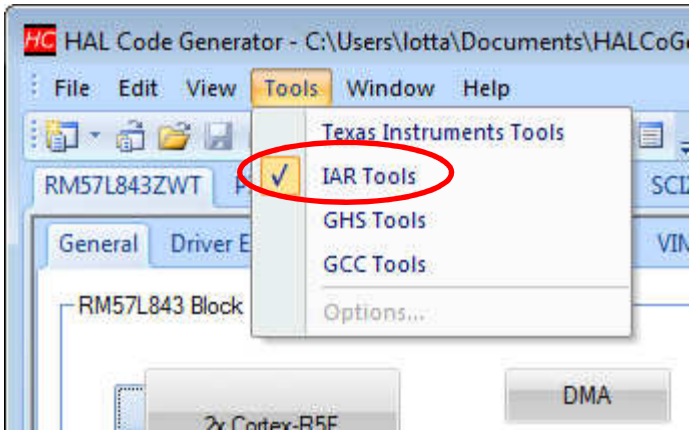
4 Choose **IAR Tools** from the **Tools** drop down menu.

5 Build your TI HALCoGen project.

If you are using an existing TI HALCoGen project, follow these steps:

1 Open your HALCoGen project.

2 Choose **IAR Tools** from the **Tools** menu.



3 Build your TI HALCoGen project.

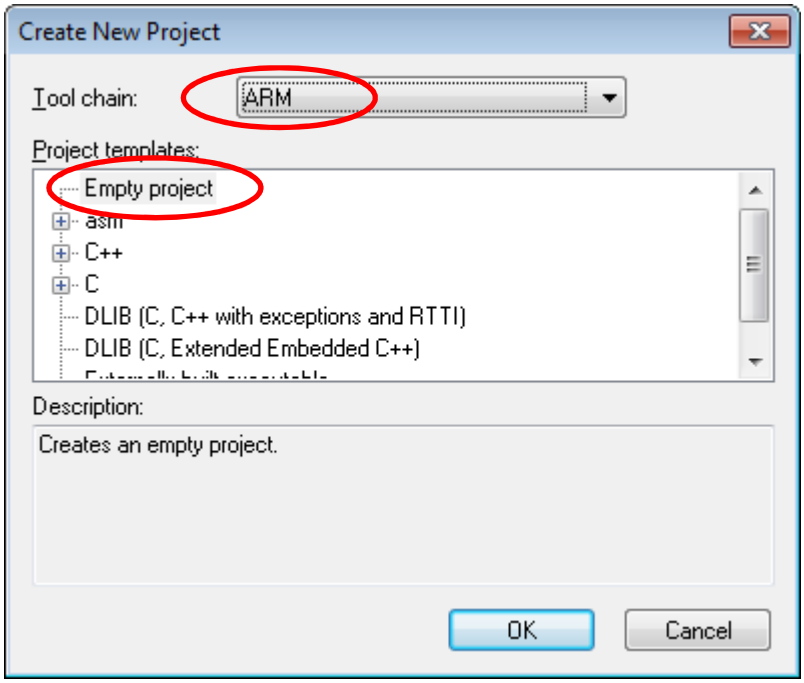
Add TI HALCoGen files to an IAR Embedded Workbench project

1 Start the IAR Embedded Workbench IDE.

2 Select **Project>Create New Project** to create a new project, The **Create New Project** dialog box appears which lets you base your new project on a project template.

3 Choose ARM from the **Tool chain** drop-down list.

4 Select the project template Empty project, which creates an empty project that uses default project settings. Click OK.



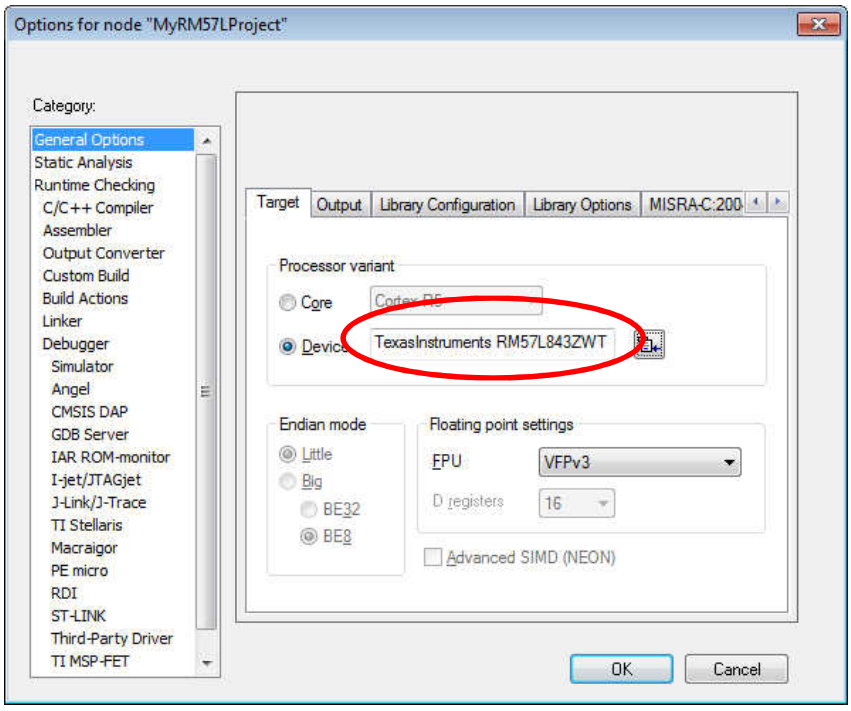
5 Specify where you want to place your project file in the standard **Save As** dialog box.

6 Choose **Project>Add Files** to add all `.c` and `.asm` files that was generated by TI HALCoGen to the project.

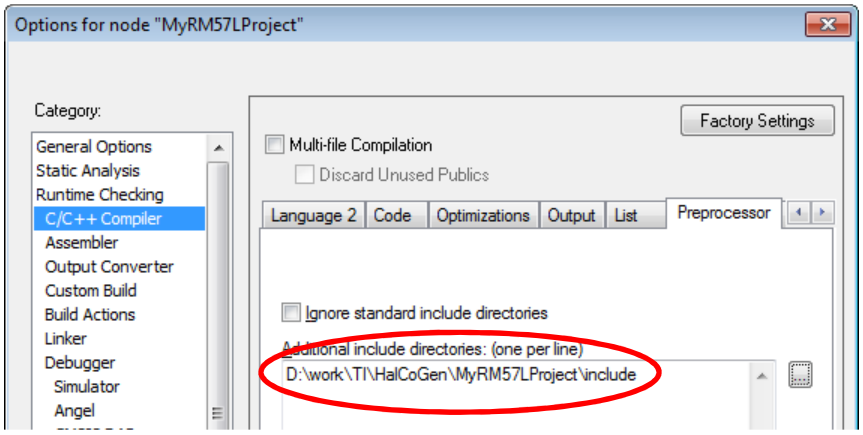
Set project options

1 Choose **Project>Options** to open the project options dialog.

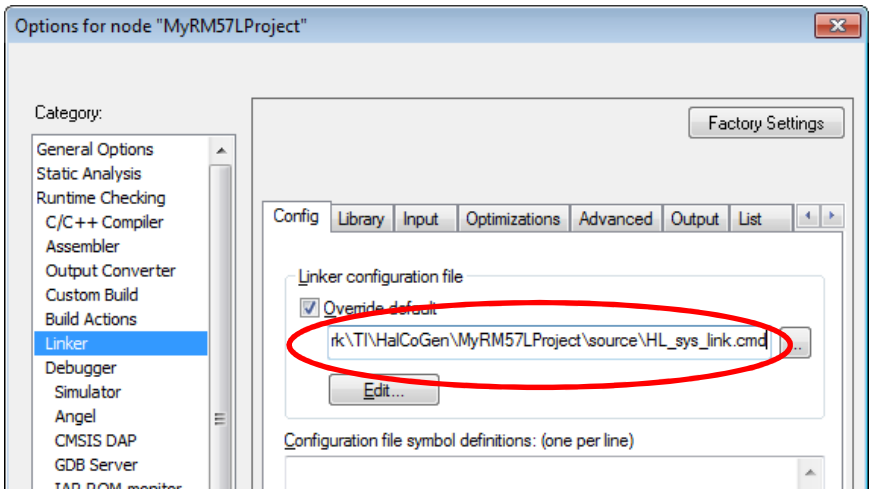
2 On the **General Option >Target** options page, choose the correct device for you project.



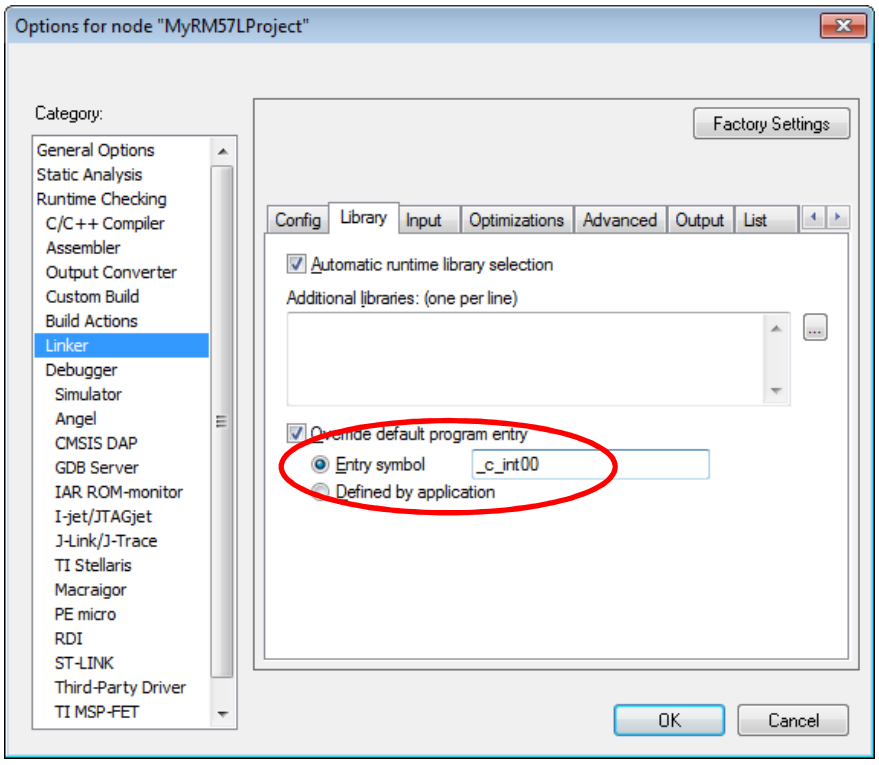
3 On the **C/C++ Compiler>Preprocessor** options page, specify where the HALCoGen header files are located as an addition include directory.



4 On the **Linker>Config** options page, specify the linker command file that was generated by TI HALCoGen. This file is called `HL_sys_link.cmd` or `sys_link.cmd` depending which device you are using.

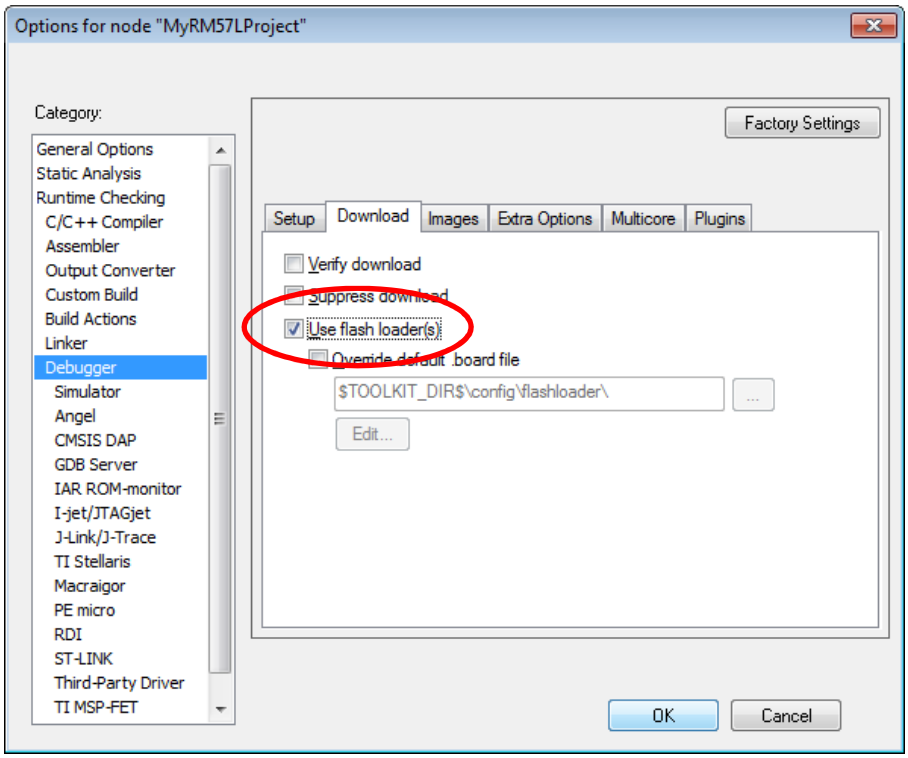


5 On the **Linker>Library** options page, specify the program entry point, use the symbol `_c_int00`.



6 On the **Debugger>Setup** option page, make appropriate settings for the debugger you are using**.**

7 On the **Debugger>Download** page, select the **Use flash loader** option.



8 Close the project options dialog.

Build and download the application

1 Select **Project>Make** to build your project.

2 Select **Project>Download and Debug** to start the debugger.

3 You can now run your TI HALCoGen generated code on your target board.

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