



## Creating an Absolute Assembly project with CodeWarrior for HC08 V5.0

Project wizard from CodeWarrior HC08 V5.0 does not provide support to create an absolute assembly project. An absolute assembly project is a project, which consist in

- one single assembly unit (assembly source file + include file(s))
- Whole application use only absolute sections (defined with ORG directive)

This Technical Note explains how to create an absolute assembly project using CodeWarrior for HC08 V5.0.

## **Project Creation**

*Freescale* 

- Start CodeWarrior. The Starup dialog is opened.
- Click on "Create New Project". The "HC(S)08 New Project" dialog is opened.
- The "Project Parameters" panel should be initialized as follows:
  - Specify a project name in the "Project name" edit box
  - Browse for the appropriate directory, where you want to create the project in the "Location" edit box.
  - Check the "Assembly" Check box
  - Make sure the "C" and "C++" box are unchecked.

HC(5)08 New Project		×
Wizard Map Project Parameters Device and Connection Add Additional Files Processor Expert	Please choose the set of languages to be supported initially. You can make multiple selections.	Project name: MyAbsAssembly Location: D:\Freescale\Work\HC08\MyAbsAssembly Set
	< <u>B</u> ack	Next > Einish Cancel

- Click on Next.
- In the "Device and Connection" panel, select the appropriate derivative and connection
  - For example M68HC908QY4 as Device and P&E Multilink/Cyclone Pro as connection.
  - Click on Next
- In the "Add Additional Files" panel
  - Make sure "Create main.c/main.asm file" is unchecked.
  - If the source file already exist on your disk:



**Technical Note** 

- Make sure the check box "Copy Files to Project" is checked.
- Browse for the source file in the "Add existing files to the project" list box
- Press "Add".
- Click Finish.
- CodeWarrior creates the project frame.

## Add Project Source file

If you have already added a source file to the project in eth previous step, skip this section. Otherwise aou will have to create the source fiel and add it to the project

- Select "File" -> "New Text File". An empty edit window is created.
- Select "File" -> "Save As" and specify a name for the source fiel (for example source.asm).
- Select "Project" -> "Add source.asm to Project". The source file is added to the project.

## Adjust Project Settings

The created project is currently set up for relocatabel assembly application. Some settings need to be adjusted to comvert it to an absolute assembly project.

- Open the Target Setting dialog (Clicking the <sup>1</sup>/<sub>10</sub> button or pressing ALT+F7)
- Switch to the "Assembler for HC08" panel
- In the Command line argument add "-FA2".

Standard Settings [MyAb	sAssembly.mcp]	? ×
Target Settings Panels	Assembler for HC08	
Target     Target      Target Settings     Access Paths     Build Extras     Source Trees     OSEK Sysgen     Assembler for HC08     Burner for HC08     Importer for HC08     Linker for HC08     Linker for HC08     Editor	Command Line Arguments: FA2 Messages Options Display generated commandlines in message window Use Decoder to generate Disassembly Listing	
	About Help Factory Settings Revert Import Panel Export Pa	nel
	OK Cancel App	ily

• Switch to the "Linker for HC08" panel.



• Check the "Absolute, Single-File Assembly project" option button.

-	
Target Settings Panels → Target → Target Settings → Access Paths → Build Extras → File Mappings → Source Trees → OSEK Sysgen → Assembler for HC08 → Compiler for HC08 → Importer	Command Line Arguments: -WmsgSd1100 -WmsgSd1912 Messages Options Preprocess PRM file Display generated commandlines in message window Use Custom PRM file Project.prm Use Template PRM file hc908qv4.prm Copy.Template Use PRM file from project
Editor Custom Keywords	Application Filename: Project.abs About Help
	Factory Settings         Revert         Import Panel         Export Panel

• Click on "OK" to save the settings and close the target Settings dialog Your Absolute assembly project is now ready and can be build.