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

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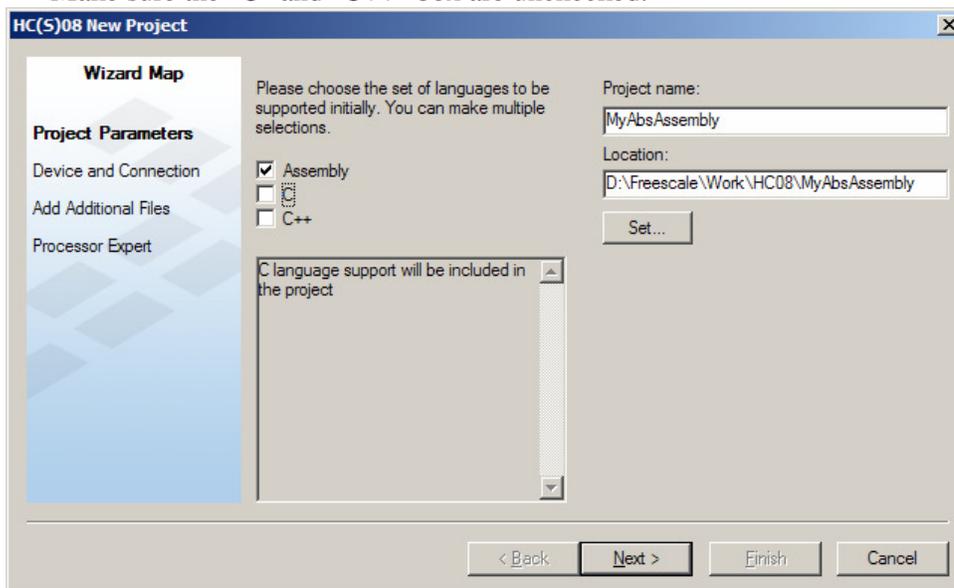
- Click on Next.
- In the "Device and Connection" panel, select the appropriate derivative and connection
    - For example M68HC908QY4 as Device and P&E Multilink/Cyclone Pro as connection.
    - Click on Next
- In the "Add Additional Files" panel
    - Make sure "Create main.c/main.asm file" is unchecked.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

- 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 convert it to an absolute assembly project.

- Open the Target Setting dialog (Clicking the ⬚ button or pressing ALT+F7)
- Switch to the "Assembler for HC08" panel
- In the Command line argument add "-FA2".
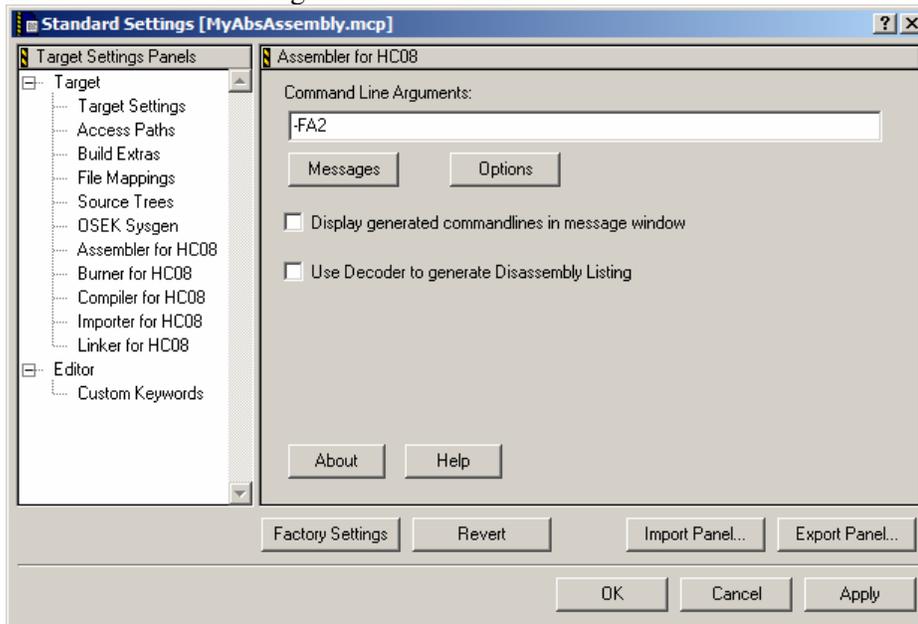
- Switch to the "Linker for HC08" panel.

- Check the "Absolute, Single-File Assembly project" option button.
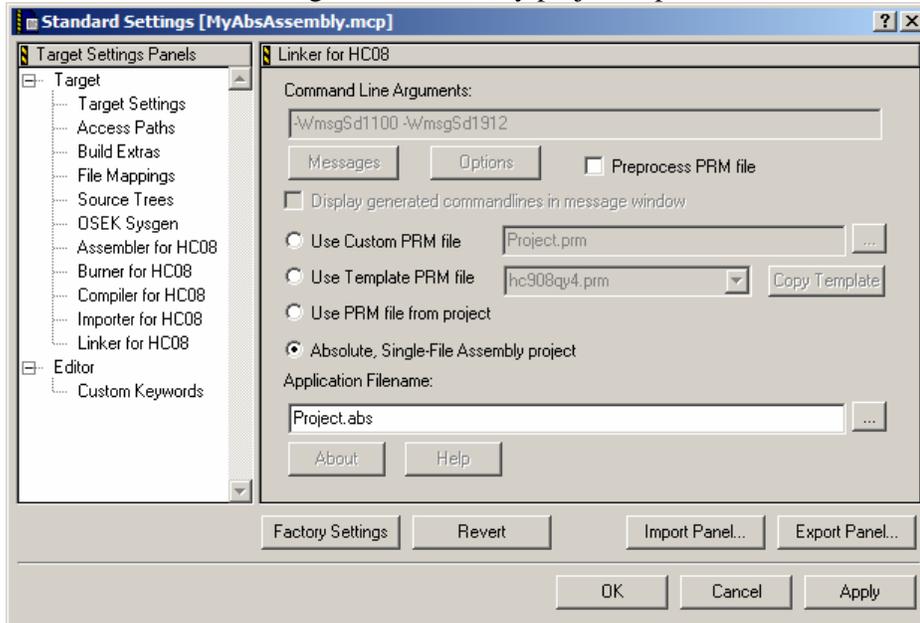
- Click on "OK" to save the settings and close the target Settings dialog

Your Absolute assembly project is now ready and can be build.