



CodeWarrior™ Development Studio

Quick Start for Freescale™ 56800/E Digital Signal Controllers

SYSTEM REQUIREMENTS

Hardware	1.0 GHz Pentium® compatible processor 1GB RAM 2GB RAM minimum is strongly recommended for systems running on Microsoft® Windows® Vista™ Business Operating System CD-ROM drive
Operating System	Microsoft Windows XP, or Windows Vista Operating Systems
Disk Space	2.0 GB free hard drive space

This Quick Start explains how to install the CodeWarrior Development Studio for Freescale 56800/E Digital Signal Controllers and then use the CodeWarrior Development Studio to create, build, and run an example program.

Section A: Installing CodeWarrior Software

1. Insert the CodeWarrior Development Studio CD into the CD-ROM drive — the CodeWarrior Auto Install begins.

NOTE If Auto Install does not start, run `launch.exe`, which is located in the root directory of the CD.

2. Follow setup program's on-screen instructions.

NOTE For licensing and activation of your CodeWarrior Development Studio for Freescale 56800/E Digital Signal Controllers, refer to the *CodeWarrior Development Suite Quick Start*. Save the license file, `license.dat`, to the installation root folder. The default is `C:\Program Files\Freescale\CodeWarrior for DSC56800E v8.3`

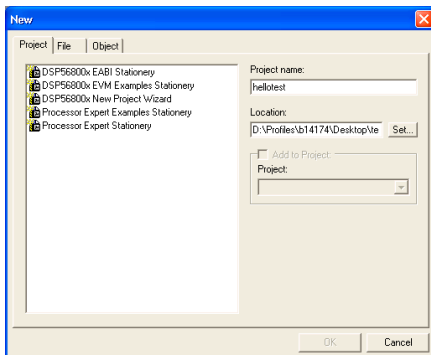
Special Edition: The Special Edition license is automatically installed with your product and you do not need to register it. This license allows you to develop projects with unlimited assembly code, up to 64KB of C Code.

NOTE Evaluation Edition: The Evaluation license is automatically installed with your product and you do not need to register it. This license allows you to develop projects as Professional Edition within the 30-day evaluation period. After 30 days, the license works as Special Edition license (free permanent, but feature limited) which supports up to 64KB of C Code.

Section B: Creating, Building, and Debugging Project

1. Create new project
 - a. Select **Start > Programs > Freescale CodeWarrior > CodeWarrior for DSC56800E v8.3 > CodeWarrior IDE** — the IDE starts and the main window appears.
 - b. From the CodeWarrior window main menu bar, select **File > New** — the **New** dialog box appears.
2. Name new project
 - a. Select **DSP56800x EABI Stationery**.
 - b. In the **Project name** text box, type `hellotest`.

New Dialog Box

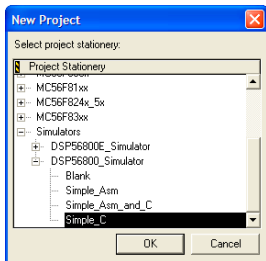




OK — the **New Project** dialog box appears, showing the list of stationery.

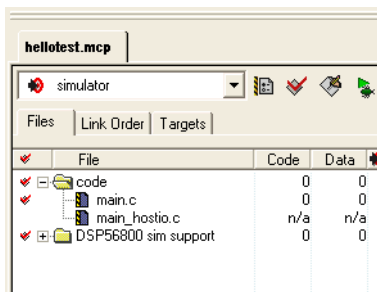
- d. Expand **Simulators > DSP56800_Simulator** tree node and select **Simple_C**.

New Project Dialog Box



- e. Click **OK** — the **hellotest.mcp** project window appears.
- f. Expand the **Code** folder to view the folder contents.

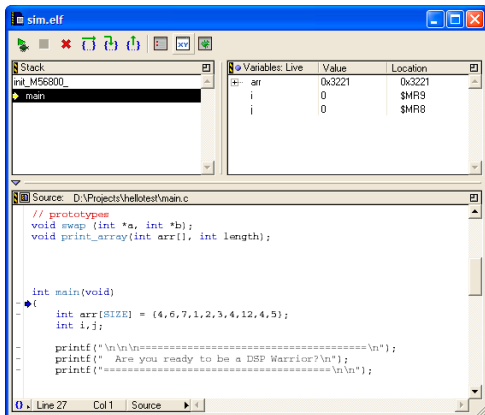
hellotest.mcp Project Window



3. Build and run project
 - a. From the main menu bar, select **Project > Make**.
 - b. From the main menu bar, select **Project > Debug** — the CodeWarrior software builds the project (since the **Stationery** defaults to **Build before running Always**) and downloads the program to the target. The debug window appears.

NOTE The debug window appears as a child window, at the right side of the main window. To change the docked/floating status of any window, right-click its title, then select a status from the context menu.

Debug Window (hellotest.mcp)



NOTE The **Stationery** defaults to **Stop on application launch** in the **Debugger Settings** target settings panel. For more information on the **Debugger Settings** target settings panel, see the *IDE User's Guide*.

- c. Click **Debug** — the program runs and the new console window shows the program's output.

Debug Button



- d. When you are ready to end the debug session, in the debug window, click **Kill** — the debug session ends.

Kill Button



Congratulations!

You have successfully created, built, and run a simple Freescale 56800/E Digital Signal Controllers program using CodeWarrior software.



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