

CodeWarrior

Development Studio

for Freescale MPC55xx/MPC56xx
Microcontrollers V2.10



Quick Start

CodeWarrior Development Studio for MPC55xx/MPC56xx Microcontrollers, version 2.xx — Quick Start

SYSTEM REQUIREMENTS

Hardware	PC with 1.4 GHz Pentium®-compatible processor (1.8 GHz recommended) 1GB RAM (2 GB recommended) CD-ROM drive (for installation) USB port (for communication with target hardware) Ethernet port (for network communication) 2nd Ethernet port (optional, but recommended for communication with target hardware)
Operating System	Microsoft® Windows® XP Windows Vista™, 32-bit or 64-bit edition Windows 7, 32-bit or 64-bit edition
Disk Space	1 GB free hard disk space (2 GB recommended), 400 MB of which must be on Windows system disk

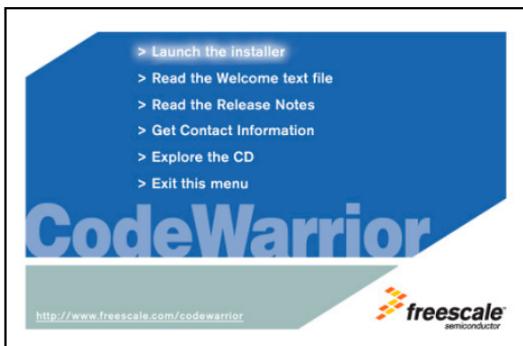
This document explains how to install this CodeWarrior product and how to use the IDE to create and build an MPC55xx/MPC56xx project.

Section A: Installing and Updating the Software

1. Install the CodeWarrior software.
 - a. Insert the **CodeWarrior Development Studio** installation CD in the CD drive of your PC — the CodeWarrior setup menu appears.

NOTE If auto-install is disabled, run `Launch.exe` manually. This program is in the root directory of the installation CD.

CodeWarrior Installation Menu



- b. Click the **Launch the installer** option to start the install wizard — the installation menu appears.
 - c. Follow the wizard instructions to install the CodeWarrior software and the P&E ICDPPCNEXUS™ Starter Edition debugger. When the installation finishes, the Installation Complete page appears.
 - d. In this page, check **Yes, check for program updates**.
 - e. Click **Finish** — the CodeWarrior Updater window appears.
2. Check for software updates.
- a. In the CodeWarrior Updater window, click **Next** — the updater checks for newer versions of the CodeWarrior products currently on your PC.
 - b. If updates are available, follow the on-screen instructions to download and install them.
 - c. Click **Finish** — the updater exits and software installation is complete.

Section B: Creating and Building a Project

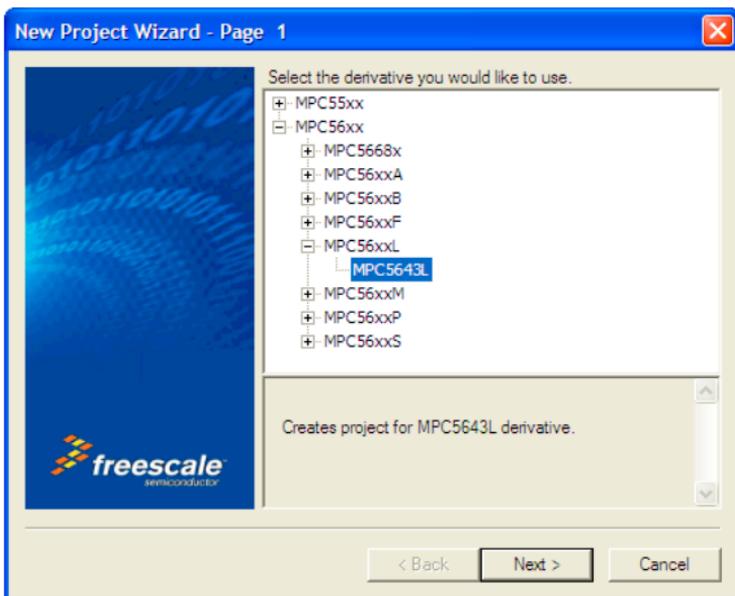
1. Create a project.
 - a. From the Windows taskbar, click **start** — the start menu appears.
 - b. From this menu, select **Programs > Freescale CodeWarrior > CW for MPC55xx, MPC56xx 2.xx > CodeWarrior IDE** — the **Startup** dialog box appears.

Startup Dialog Box



- c. From the **Startup** dialog box, click **Create New Project** — the **New Project Wizard** starts and displays the microcontrollers derivative page. The list below explains the purpose of each of the other **Startup** dialog box options:
- **Load Example Project** — Displays a list of "cookbook" example projects and creates a new project based on the example you select.
 - **Load Previous Project** — Displays a list of recently used projects and opens the one you select.
 - **Start Using CodeWarrior** — Lets you use the CodeWarrior IDE's main window.

Microcontroller Derivative Page



- d. From the microcontroller derivative page, select the MPC55xx/MPC56xx microcontroller derivative on your target board.
- e. Click **Next** — the languages and libraries page appears.

NOTE If you selected a multicore device (such as the MPC5514E or the MPC5643L), the multicore configuration page appears instead of the languages and libraries page. In this case, refer to *Targeting MPC55xx-MPC56xx Microcontrollers.pdf* for instructions. This document is in the layout here: `installDir\Help\PDF`.

Languages and Libraries Page

Please specify the set of languages to be supported initially. You can make multiple selections.

Project name:
test_project_1.mcp

Location:
D:\Profiles\RAT748\My Documents\test_project\test_project_1\
Set...

C_ASM Use size optimized MSL libraries.
 C Use unsigned chars.
 C++ Use VLE

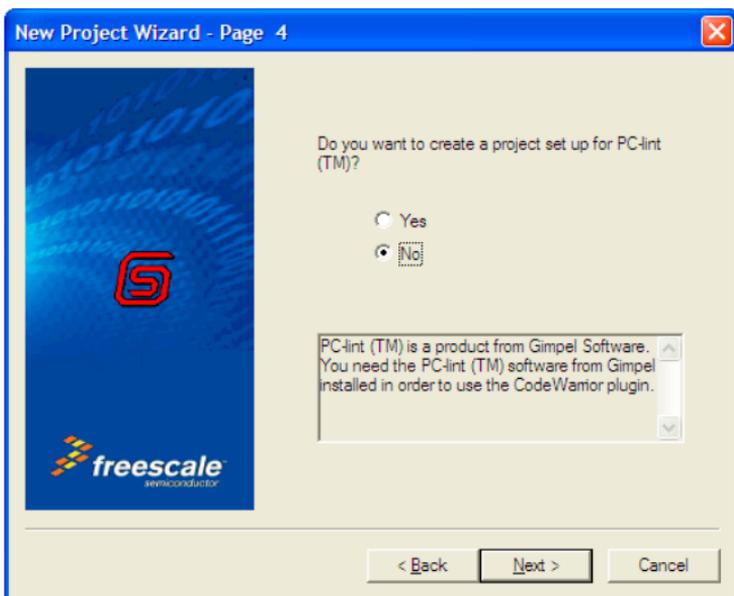
When enabled the compiler VLE options will be enabled and the V libraries selected. If the selected processor does not support VLE, this option will be ignored.

< Back Next > Cancel

- f. In the **Project name** text box, type the name of the new project.
- g. In the **Location** text box, type the path in which to create this project. Alternatively, click **Set** to display a dialog box with which to select this path.
- h. Check the **C** checkbox.
- i. Uncheck the **Use size optimized MSL libraries** checkbox.
- j. Check the **Use unsigned chars** checkbox.
- k. Uncheck the **Use VLE** checkbox.
- l. Click **Next** — the PC-lint page appears.

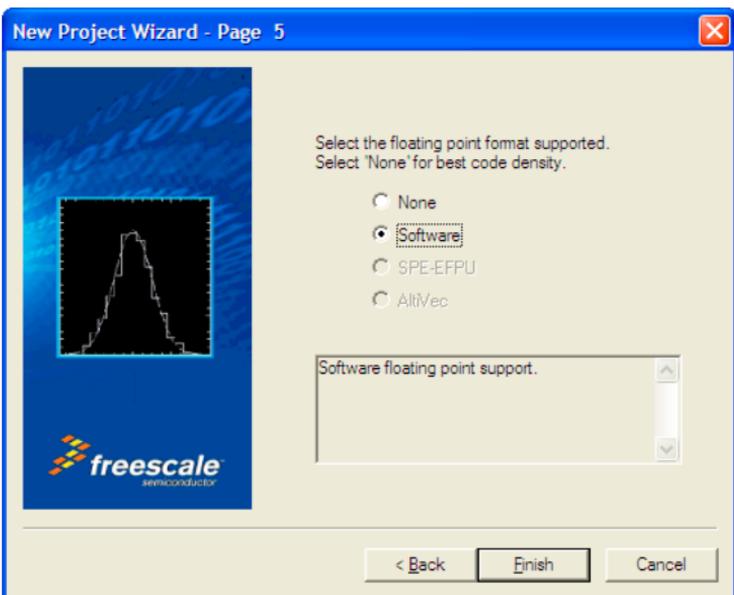
NOTE If OSEKTurbo is installed, the OSEK page appears. Refer to the targeting manual for instructions that explain how to fill in this page.

PC-lint Page



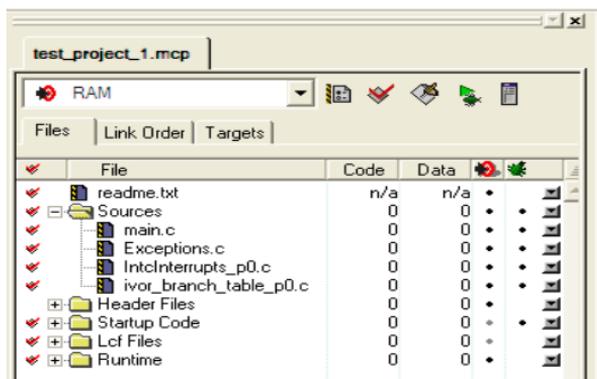
- m. Select **No**.
- n. Click **Next** — the floating-point format support page appears.

Floating-Point Format Support Page



- o. Select **Software**.
- p. Click **Finish** — the wizard creates a project according to you specifications and displays it in a project window.

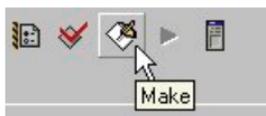
Project Window



2. Build the project.

- a. From the project window toolbar, click **Make** — the IDE compiles the project's source code and links the resulting object code into an ELF-format executable file.

Make Button



- b. Use the debugger of your choice to run and debug the executable file.

NOTE This CodeWarrior product includes a source code debugger and flash programmer from P&E Micro. For instructions that explain how to use these tools, refer to the *P&E ICDPPCNEXUS Quick Start Guide*.

Congratulations!

You have installed your CodeWarrior software, created an MPC55xx/MPC56xx project, and built this project.

NOTE If you obtained this product as part of a CodeWarrior Development Suite, you now have a 30-day evaluation license. To obtain your permanent license, follow the registration and activation instructions in the *CodeWarrior Development Suite Quick Start*.

If you have the Special Edition of this product, you do not have to register because you have a permanent, but feature-limited license. This license lets you develop projects that generate binaries up to 128 KB in size. To upgrade, you must purchase the CodeWarrior Development Suite - Professional Edition. For more information, go to:

www.freescale.com/CodeWarriorSuites.

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