



CodeWarrior™ Development Studio for Motorola HC08 Microcontrollers Quick Start for Windows®

BASIC SYSTEM REQUIREMENTS

PC Hardware	200 MHz Pentium® II or AMD-K6® class processor, 64 MB of RAM, Parallel Port, 9-pin Serial Port, and CD-ROM drive
Operating System	Microsoft® Windows® 98/2000/XP/NT
Disk Space Required	330 MB (Service pack downloads may require more)

This Quick Start explains how to: install the CodeWarrior IDE for HC08 V2.1 software, install service packs that support additional HC08 derivatives, use the IDE to create and debug a project.

Note: Advanced users may use the numbered steps; substeps are expanded descriptions.

Section A - Installing CodeWarrior IDE for HC08 V2.1

1. Install CodeWarrior IDE

- a. Insert **CodeWarrior for HC08** CD into CD-ROM drive – CW Auto Install begins
Note - If Auto Install does not start, run setup.exe, which is located in the root directory of the CD.
- b. Follow setup program's on-screen instructions
Note - You can run the `MWRegister.exe` program as the last step of the installation. You can also register later, as explained in Section B.

2. Restart your computer

Note - Restarting ensures that the newly installed drivers are available to the CodeWarrior IDE.

Section B - Registering CodeWarrior Software

1. Run `MWRegister.exe` program

- a. Click Windows desktop, click **Start > Programs > Metrowerks > CodeWarrior CW08 V2.1** – menu appears
- b. Select **Register CodeWarrior for CW08_V2.1** – Register CodeWarrior Window appears


2. Select New Purchase or Renewal from License Type pull-down menu

3. Complete all fields



» button – Registration Method dialog box appears

Register CodeWarrior Window

5. Click on Start/Continue icon  – Program execution resumes
6. In the Debugger Simulator Window tool bar, select File > Exit to exit the CodeWarrior IDE
7. In the IDE Main Window tool bar, select File > Exit to exit the CodeWarrior IDE

Congratulations!
You have created and debugged a program using CodeWarrior for HC08 V2.1 software!

- c. Select **E-Mail** option button
 - d. Click **OK** button – the MWRegister.exe program sends an email to Metrowerks
- Note** - If you encounter difficulty with the licensing server, you can e-mail your registration file. the registration file is a text file. The filename begins with MWRegistration. the registration file is located in the following directory:
- {install_directory}/Metrowerks/CodeWarrior
CW08_V2.1/Other Metrowerks
Tools/MWRegister/CW08_V2.1

You can email the registration file to:

License@metrowerks.com
or
License_europe@metrowerks.com

Registration Method Dialog Box

Section C - Installing CodeWarrior License Key

Note - You should receive a license key by e-mail. You must install this key in your license file (license.dat) to use the CodeWarrior IDE. No separate license is necessary for service pack software.

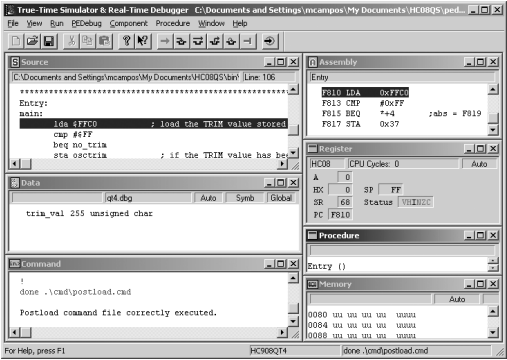
If you need a Special Edition license, select **Start > Programs > Metrowerks > CodeWarrior CW08 V2.1 > get HC08 Special Edition license** - a web page opens in your web browser with instructions on obtaining a Special Edition license.



1. Start debugger

- a. From IDE main menu bar, select **Project**
- b. Select **Debug** – Debugger Simulator window opens

Note - Source and Assembly panes display the `qt4.asm` program and code.



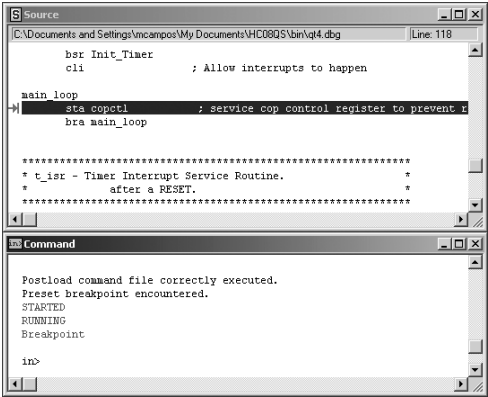
Debugger Simulator Window

- 2. Right click the mouse in the Source pane to set breakpoints in program code

- 3. From the Debugger Simulator main menu, select **Run** – Run menu appears

- 4. Click on **Start/Continue** – Program executes until encountering the first breakpoint

Note - The Debugger Window's Command pane displays Program status.



Debugger Simulator Window Source and Command Panes

1. Open license file

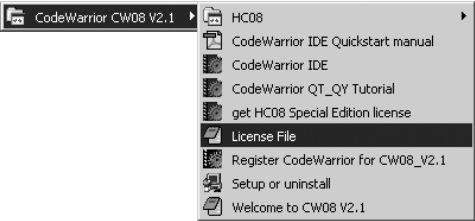
- a. Click **Start > Programs > Metrowerks > CodeWarrior CW08 V2.1** – menu appears
- b. Select **License File** – Notepad starts and opens `license.dat` file

2. Copy license key to new line at the bottom of `license.dat` file

Note - If you are adding a license key for an upgrade, paste the new license key above the other keys in the `license.dat` file.

3. Save `license.dat` file – License is installed

4. Close `license.dat` file – License is installed



Finding the License File

Note - Do not move or delete the `license.dat` file. You can append future keys to the bottom of this file.

Section D - Software support for additional HC08 derivatives

Note - You can find software support (service packs) for additional HC08 derivatives on the Metrowerks website or on the documentation CD.

1. Determine if you need service pack

- a. Insert **User Documentation** CD into CD-ROM drive
- b. Click **My Computer** on Windows desktop
- c. Click CD ROM drive – List of documentation CD contents appears
- d. If no **CodeWarrior_HC08_V2.1.SPx.exe** file is listed, no patch is needed, go to **Section E** of this document. If a service pack is listed, go to **Step 2**.

Note - <http://www.metrowerks.com/MW/download> contains a link for **CodeWarrior for Motorola HC08**, which directs you to a page that lists the processors served by each service pack. If your target processor is not listed, you do not need a service pack.

2. Install service pack

Note - CodeWarrior IDE for HC08 V2.1 must be installed before you can install a service pack.

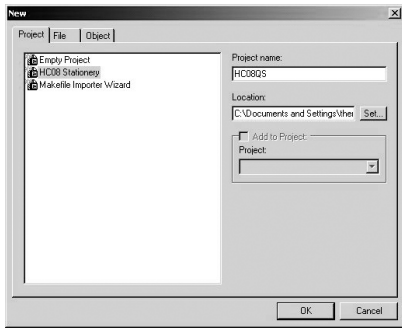
- a. In CD contents list, click **CodeWarrior_HC08_V2.1.SPx.exe** icon – InstallShield Wizard starts
- b. Follow the Wizard's on-screen instructions - service pack installs

1. Launch CodeWarrior IDE

- a. From Windows desktop click **Start > Programs > Metrowerks > CodeWarrior CW08 V2.1** – menu appears
- b. Select **CodeWarrior IDE** – IDE starts, and CodeWarrior window appears

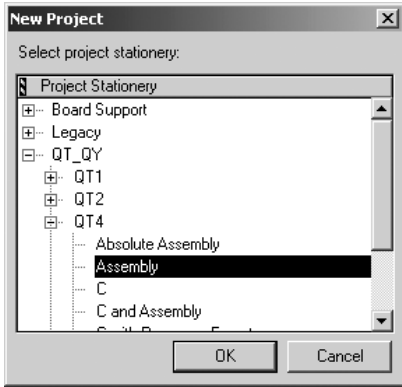
2. Create new project

- a. From main menu bar, select **File > New** – New window appears



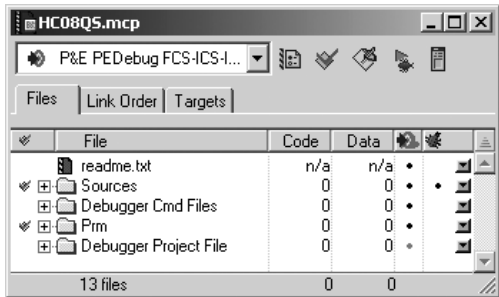
New Window

- b. Select **HC08 Stationery**
- c. Enter a name for your project in **Project name** text box – IDE automatically adds .mcp extension when you save project
- d. Click **OK** button – New Project window appears



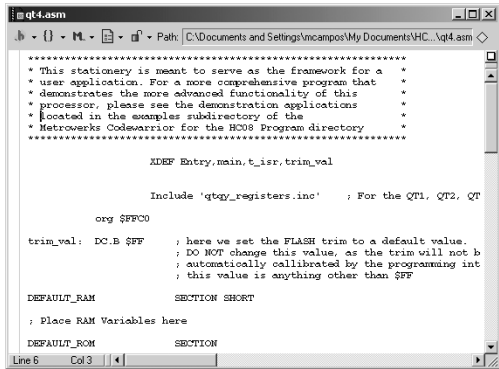
New Project Dialog Window

- e. Click + to display the **QT_QY** stationery
- f. Click + to display the **QT4** stationery
- g. Select **Assembly** – the IDE will base the new project on this stationery
- h. Click **OK** button – IDE creates projects, and opens Project window, which displays your named project



Project (HC08QS.mcp) Window

- i. Click + to display contents of **Sources** folder
- j. Double click on **qt4.asm** – Editor window opens displaying the main program contents
- k. Make changes to contents of qt4.asm file if desired



qt4.asm in Editor Window

- l. If you made changes to source code, from IDE main menu bar, select **File > Save** – IDE saves changes
- m. From IDE main menu bar, select **Project > Make** – IDE compiles the project