



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

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## BASIC SYSTEM REQUIREMENTS

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<b>PC Hardware</b>	200 MHz Pentium® II or AMD-K6® class processor, 64 MB of RAM, Parallel Port, 9-pin Serial Port, and CD-ROM drive
<b>Operating System</b>	Microsoft® Windows® 98/2000/XP/NT
<b>Disk Space Required</b>	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

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### 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

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### 1. Run `MWRegister.exe` program

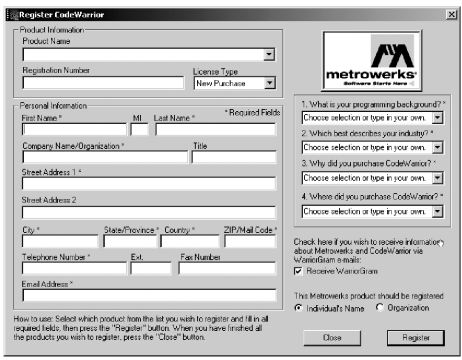
- a. Click Windows desktop, click **Start > Programs > Metrowerks > CodeWarrior CW08 V2.1** – menu appears
- b. Select **Register CodeWarrior for CW08\_V2.1** – Register CodeWarrior Window appears

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


### 3. Complete all fields



Register 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



Registration Method Dialog Box

You can email the registration file to:  
License@metrowerks.com  
or  
License\_europe@metrowerks.com

### Section C - Installing CodeWarrior License Key

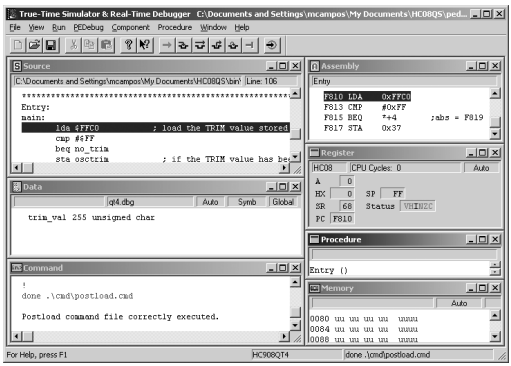
**Note** - You should receive a license key by e-mail. You must install this key in your license file (license.dat) to use the CodeWarrior IDE. No separate license is necessary for service pack software.

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

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

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



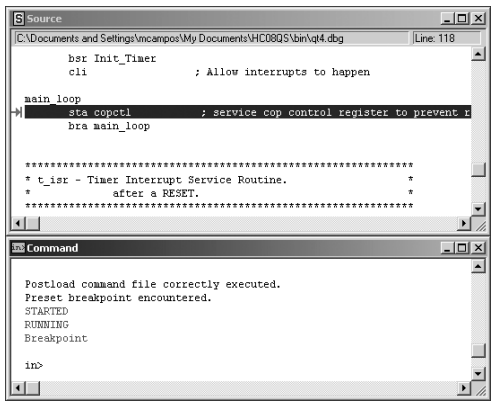
Debugger Simulator Window

## 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

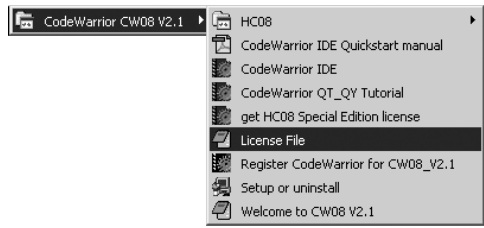
- Click **Start > Programs > Metrowerks > CodeWarrior CW08 V2.1** – menu appears
- Select **License File** – Notepad starts and opens `license.dat` file

## 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

- Insert **User Documentation** CD into CD-ROM drive
- Click **My Computer** on Windows desktop
- Click CD ROM drive – List of documentation CD contents appears
- 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.

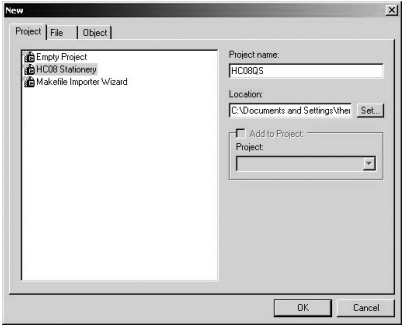
- In CD contents list, click **CodeWarrior\_HC08\_V2.1 SPx.exe** icon – InstallShield Wizard starts
- Follow the Wizard's on-screen instructions - service pack installs

## 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

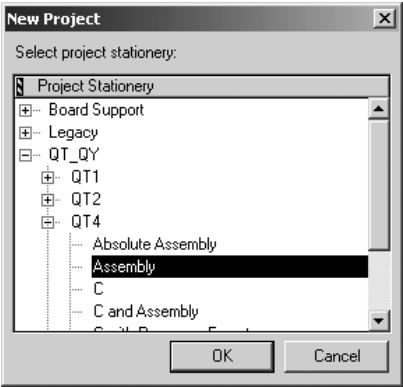
## 2. Create new project

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



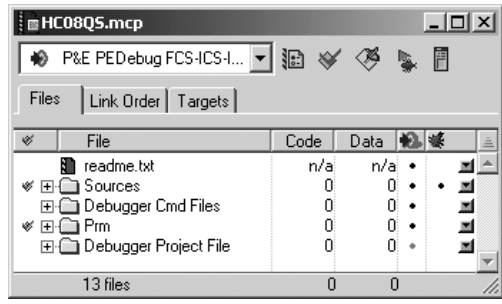
New Window

- 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



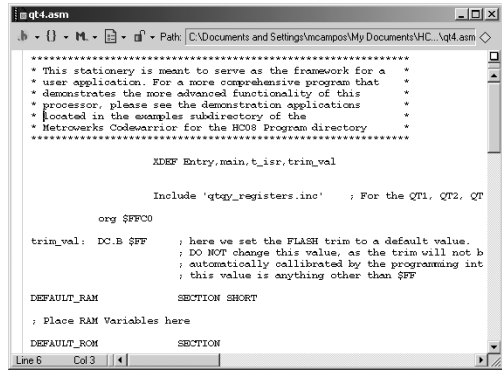
New Project Dialog Window

- 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