

# CodeWarrior™

## Development Tools

HC08 V2.0

## Windows® Quick Start

### MINIMUM SYSTEM REQUIREMENTS

PC Hardware	PC with 64 MB of RAM, Parallel Port, and a CD-ROM drive
Operating System	Microsoft® Window 95/98/2000
Disk Space Required	160 MB

This Quick Start explains how to: install the CodeWarrior™ IDE for HC08, use CodeWarrior IDE to create a project and create and debug a program.

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

## Section A - Installing CodeWarrior IDE for HC08 V2.0

### 1. Install CodeWarrior IDE

- Insert **CodeWarrior for HC08** CD into CD-ROM drive

**Note - If Auto Install is disabled, run the installer program `install.exe` in the CD's root directory.**

- Follow setup program's on-screen instructions - `MWRegister.exe` program is run as last step of installation

### 2. Restart your computer

**Note - Restarting ensures that the newly installed drivers are available for use.**

## Section B - Registering CodeWarrior Software

### 1. Full License Users: Complete

- Run the `MWRegister.exe` program with the shortcut created by the installation – **Register CodeWarrior Window** appears
- Select **New Purchase** or **Renewal** from License Type pull-down menu
- Completely fill in all other fields
- Click **Register** – Registration Method dialog box appears
- Select **E-Mail** option button
- Click **OK** button

The screenshot shows the 'Register CodeWarrior' dialog box. It has a 'Product Information' section with 'Product' set to 'CodeWarrior for 68K/Coldfire Embedded Systems', 'Version' set to '3.0', and 'License Type' set to 'New Purchase'. Below this is a 'Personal Information' section with fields for 'Yourname' (First Name, MI, Last Name), 'YourCo.', 'Yourjob', 'Title', 'Street Address 1', 'Street Address 2', 'Yourtown', 'Yourstate', 'USA', 'City', 'State/Province', 'Country', 'Zip', 'Telephone Number', 'Ext.', 'Fax Number', and 'Email Address'. A 'Select the method for registration' dialog box is open over the personal information fields, with 'E-Mail (requires internet connection)' selected. The 'metrowerks' logo is in the top right corner. At the bottom right, there is contact information: 'Send to: license@metrowerks.com, 512-997-4905 or 9801 Metric Blvd, Austin, TX 78758'. There are 'Register Later' and 'Register' buttons at the bottom.

Figure 1 - Registration Window

**Note - If you encounter any difficulty with the licensing server, email us your registration information (Metrowerks/CodeWarrior/Other Metrowerks Tools/MW Registration.txt) at:**

**License@metrowerks.com.**  
OR  
**License\_europe@metrowerks.com.**

## Section C - Installing CodeWarrior license key

### 1. You received a license file (license.dat) on a diskette or by email

- Click windows **Start** button – Start menu appears
- Select **Programs** - Programs menu appears
- Select **Metrowerks CodeWarrior** - CodeWarrior for HC08 menu appears
- Select **CodeWarrior HC08** - options menu appears
- Select **License File** - NotePad will open your license.dat file
- Copy or type your key on new line at the bottom of this file,

**Note - Leave file in the location where you found it. Any future key can be appended to the bottom of this file.**



**Figure 2 - Finding the License File**

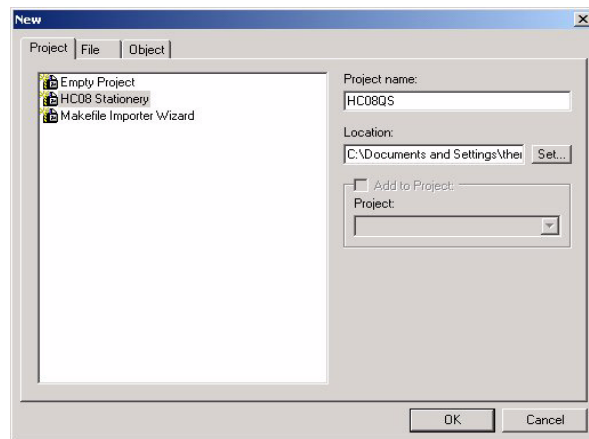
## Section D - Creating an HC08 program in assembler

### 1. Launch CodeWarrior IDE

- Click Windows **Start** button – Start menu appears
- Select **Programs** – Programs menu appears
- Select **Metrowerks CodeWarrior** – CodeWarrior for HC08 menu appears
- Select **CodeWarrior HC08** – options menu appears
- Select **CodeWarrior IDE** – IDE starts, and CodeWarrior window appears

### 2. Create new project

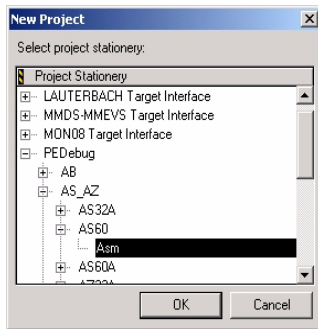
- From main menu bar, select **File > New** – New window appears
- Select HC08 Stationery
- Enter a name for your project in **Project name:** text box – IDE automatically adds .mcp extension when you save project



**Figure 3 - New Window**

**Note - You can set the location for this project by typing a new location in the Location field. For this exercise, do not do so. Go to instruction d.**

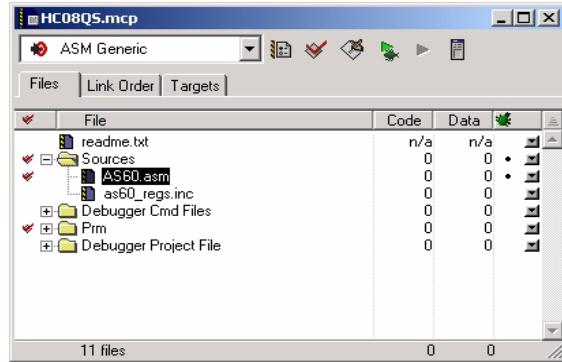
- Click **OK** button – New Project window appears



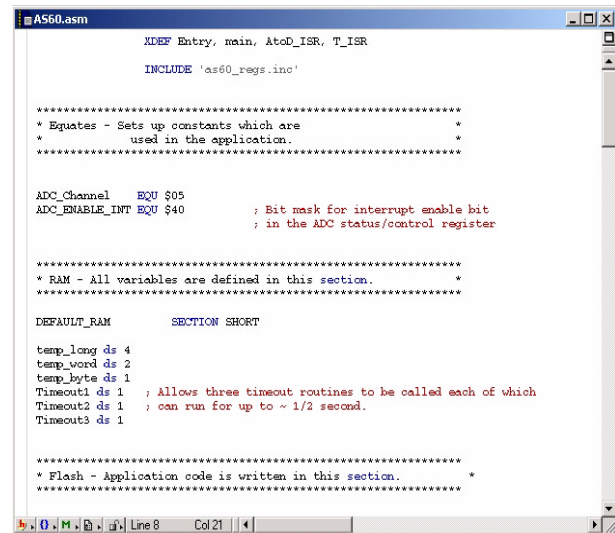
**Figure 4 - New Project Window**

- e. Click on the + to display the **PEDebug** stationery options
- f. Click on the + to display the **AS\_AZ** stationery options
- g. Click on the + to display the **AZ60** stationery options
- h. Select **ASM** to build your project in assembler
- f. Click **OK** button – Project window displaying your named project appears
- g. Click on the + to display **Sources** folder contents
- h. Double click on **AZ60.asm** – Editor window opens displaying the main program contents
- i. Make your changes where indicated
- j. From IDE main menu bar, select **File > Save** – to save any changes

- k. From main menu bar, select **Project > Make** – to compile your new project



**Figure 5 - Project (HC08QS.mcp) Window**



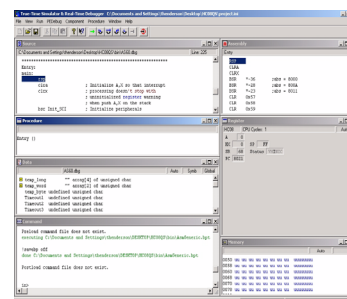
**Figure 6 - AZ60 .asm in Editor Window**

## Section E - Debugging your program

### 1. Debug your program

- a. Select **Project > Debug** – Debugger Simulator window opens

**Note - AZ60 .asm program and code are displayed in the Debugger Simulator window Source and Assembly panes, respectively.**

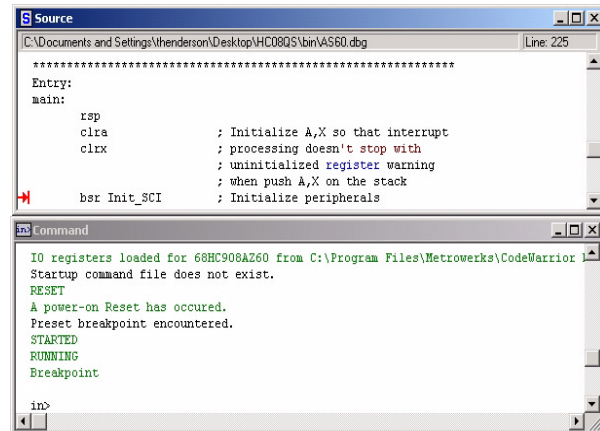


**Figure 7 - Debugger Simulator Window**

- b. Right click the mouse to set breakpoints in program code displayed Source pane
- c. In the Debugger Simulator Window tool bar, select **Run** – Run menu is displayed
- d. Click on **Start/Continue** - Program executes until the first breakpoint is encountered, halts

**Note - Program status (running/halted) is displayed in the Debugger Window's Command pane.**

- e. Click on **Start/Continue** – Program resumes
- f. In the Debugger Simulator Window tool bar, select **File > Exit** to exit Debug
- g. In the IDE Main Window tool bar, select **File > Exit** to exit the IDE



**Figure 8 - Debugger Simulator Window Source and Command Panes**

Congratulations! You have created and debugged a simple assembler program using CodeWarrior for HC08 V2.0 software.



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