

CodeWarrior™ Development Studio

Quick Start for Palm OS® Platform

System Requirements	
Hardware	Intel Pentium® class or AMD-K6® class processor with at least 64 MB of RAM, CD-ROM drive
Operating System	Microsoft Windows® 98/Me/2000/XP operating system, or Windows NT® 4.0 with Service Pack 6a or later
Disk Space	Approximately 340 MB for full tools installation

This quick start explains how to use the CodeWarrior IDE with these items:

- Palm OS Emulator (POSE) software
- Palm OS platform device

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

Section A - Installing and Registering the IDE

1. Install CodeWarrior IDE

- Insert CodeWarrior CD into CD-ROM drive — install wizard begins

Note - If Auto Install is disabled, run the installer program `setup.exe`, in the root directory of the CD.

- Follow wizard instructions and accept all default settings until asked to check for updates.
- When asked to check for updates, click **Yes** — CodeWarrior updater begins
- Follow on-screen instructions to download any available updates

- When you see message, "Your version ... is up to date," click **OK** button — message box closes
- Click updater **Close** button — installation resumes

2. Register software

- When asked to register product, click **Yes** — Metrowerks registration instructions appear
- Click **Next** button to continue with registration — Registration window appears
- In **License Type** list box, select **New Purchase, Renewal, or Evaluation**

Note - Evaluation license keys are valid for only 30 days.

- Fill in all fields of window
- Click **Register** button — Registration Method dialog box appears

Registration Window, Method Dialog Box

- Select **E-Mail** option button
- Click **OK** button — program sends information to Metrowerks
- Click **Close** button — installation resumes; at end, wizard prompts you to restart computer
- Select "Yes, restart" option, then click **Finish** button — computer restarts

Note - If you are using the Palm OS Emulator software together with the CodeWarrior software, proceed to Section B. If you are using a Palm OS platform device together with the CodeWarrior software, proceed to Section C.

Section B - Create a Palm OS Application Using CodeWarrior Software and POSE Software

1. Obtain ROM file for Palm OS platform device

- Go to PalmSource website at:
<http://www.palmos.com/dev/tools/emulator/#roms>
- Follow on-screen instructions to become Palm OS Developer Program member
- Download generic .rom file

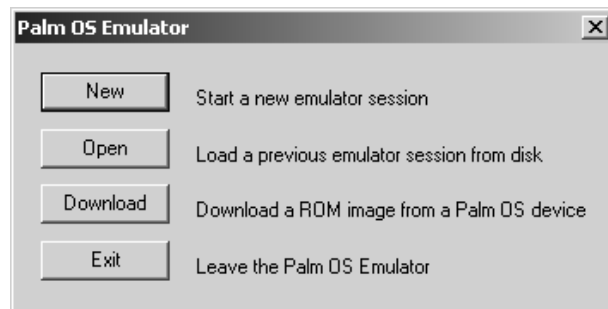
Note - Some .rom files contain data for multiple Palm OS platform devices. Use files for Palm OS version 3.0 or higher.

2. Start CodeWarrior IDE

- Select Start > Programs > Metrowerks CodeWarrior > CodeWarrior Dev Studio for Palm OS Platform v9.0 > CodeWarrior IDE
- CodeWarrior IDE main window appears

3. Setup and Run Emulator

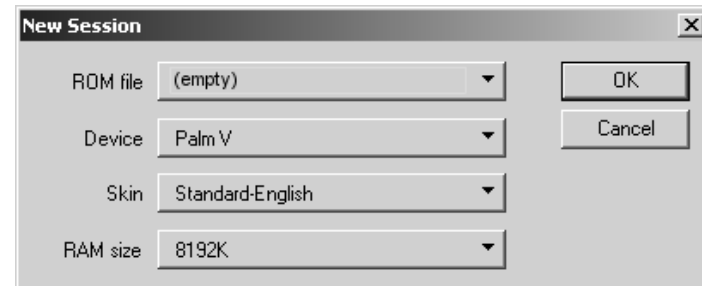
- Select PalmOS > Launch Emulator on main menu bar — Palm OS Emulator dialog box appears



Palm OS Emulator Dialog Box

Note - The subfolder CW for Palm OS Tools in your CodeWarrior for Palm OS installation contains emulator programs.

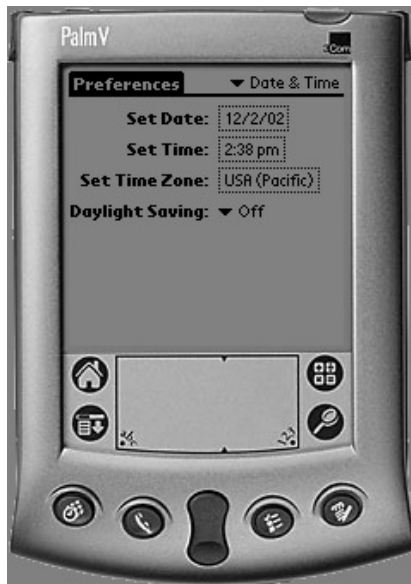
- Click New button — New Session dialog box appears



New Session Dialog Box

- Select Other... from the ROM file dropdown list — Choose ROM file: dialog box appears
- Navigate to and open the .rom file you downloaded
- Select your device from Device list box
- Select your skin from Skin list box
- Select 2048 or greater from RAM size list box
- Click OK in the New Session dialog box — emulator appears and runs selected ROM image

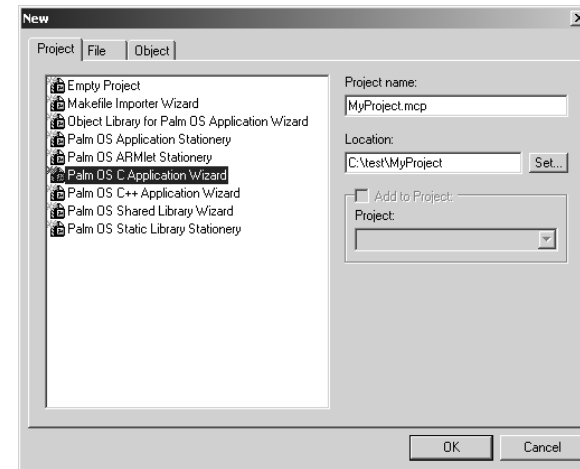
Note - To reduce or increase size of emulator, right click inside emulator window and select Settings > Skins... (Alt+K), then uncheck or check Double scale option.



Palm V Emulator

4. Create project using Palm OS Application Wizard

- a. Select File on main menu bar of CodeWarrior IDE
- b. Select New — New dialog box appears
- c. Select Palm OS C Application Wizard



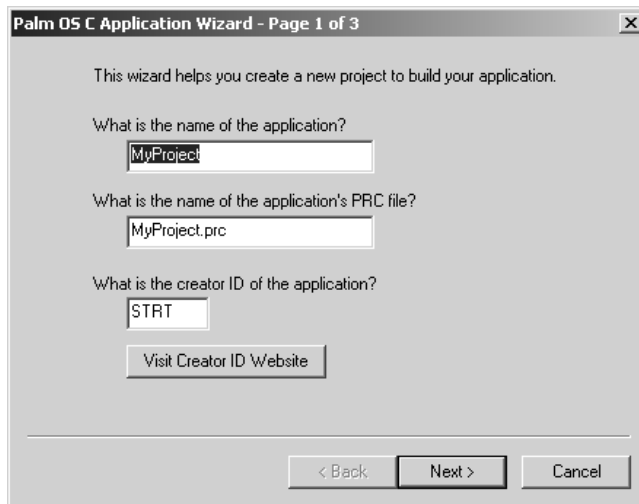
New Dialog Box

- d. In Project name text field, type project name (for example, MyProject)

Note - The extension .mcp is the standard file name extension for CodeWarrior project files and will be automatically attached to project file name on your PC.

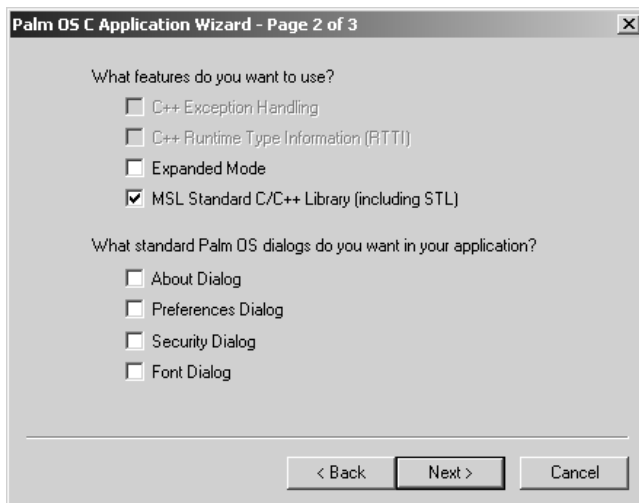
- e. Click OK button — Palm OS Application Wizard Page 1 appears
- f. Click Next

Note - A message appears about the STRT creator code. The STRT creator code is sufficient for this Quick Start. Click Yes to continue.



Application Wizard - Page 1 of 3

- g. Click Next for Page 2



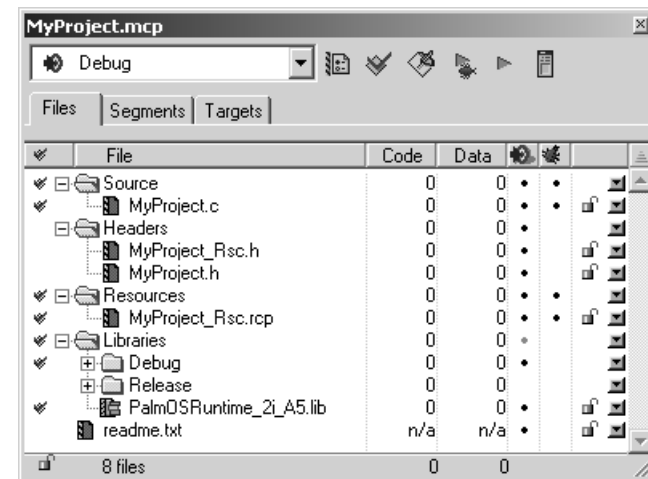
Application Wizard - Page 2 of 3

- h. Click Next for Page 3



Application Wizard - Page 3 of 3

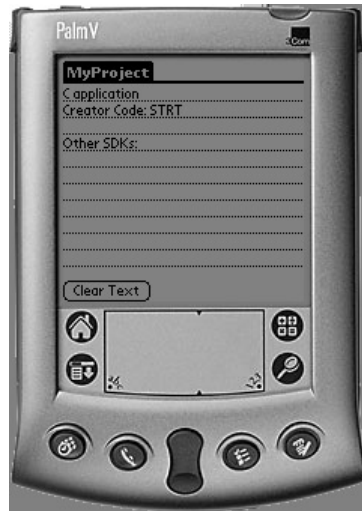
- i. Click Finish to create and display new project



Project Window

5. Compile and run project

- a. Choose Project > Run on main menu bar — sample project compiles and Debugger log window appears
- b. POSE starts — MyProject appears in emulator



Palm V Emulator

6. Close emulator

- a. Right-click on emulator screen
- b. Click exit — Palm OS® Emulator dialog box appears
- c. Click No — POSE exits and discards changes

Congratulations!

You have created a simple Palm OS program using the CodeWarrior software and the POSE software.

Section C - Creating a Palm OS Application Using CodeWarrior Software and a Palm OS Platform Device

1. Connect Palm OS platform device to computer

- a. Connect device cradle to computer:

Computer Port	Cradle Cable	Connection Procedure
USB	USB	Connect device cradle USB cable to computer USB port
Serial	Serial	Connect device cradle serial cable to computer serial port
USB	Serial	1) Connect device cradle serial cable to serial-to-USB adapter 2) Connect serial-to-USB adapter to computer USB port
Serial	USB	1) Connect device cradle USB cable to USB-to-serial adapter 2) Connect USB-to-serial adapter to computer serial port

- b. Slip Palm OS platform device into device cradle
- c. Exit HotSync® manager, if running
- d. If using Handspring™ USB cradle, install Handspring Desktop to access drivers

2. Start CodeWarrior IDE

- a. Select Start > Programs > Metrowerks CodeWarrior > CodeWarrior Dev Studio for Palm OS Platform v9.0 > CodeWarrior IDE

- b. CodeWarrior IDE main window appears

3. Create project using Palm OS Application Wizard

- a. Click File on main menu bar of CodeWarrior IDE

- b. Click New — New dialog box appears
- c. Select Palm OS C Application Wizard
- d. In Project name text field, type project name
- e. Click OK button — Palm OS Application Wizard Page 1 appears
- f. Fill in requested information and click Next

Note - The STRT creator code is sufficient for the purposes of this Quick Start.

- g. Fill in desired information for Page 2 and click Next
- h. Fill in desired information for Page 3
- i. Click Finish button — project window opens
- j. Select Debug from the list of targets

4. Link CodeWarrior IDE to Palm OS platform device

- a. Select Edit > Debug Settings...
- b. Select Palm OS Debugging in Debugger group of target settings panels — Palm OS Debugging panel appears
- c. Select Device from Connect to dropdown list
- d. Select correct port from Device list box
- e. Select Baud rate
- f. Leave other default settings as is
- g. Click OK button

5. Compile and run the project

- a. Select Project on main menu bar
- b. Select Run — sample project compiles

6. View application

- a. Metrowerks CodeWarrior dialog box appears
- b. Confirm Palm OS platform device is in device cradle
- c. Tap Find button on device — Find dialog box appears
- d. Write Shortcut..2 in device Graffiti® writing area:



Note - If you connect a Handspring Visor™, Handspring Visor™ Prism, or Sony™ CLIÉ™ device to the computer through the serial port, you must press the Up button on the device just prior to writing the 2. You must then hold down the Up button for the entire duration of the download.

- e. Click OK button — application downloads to Palm OS platform device
- f. MyProject application appears in Palm OS platform device screen

7. End Application and CodeWarrior IDE

- a. Tap Home button on device
- b. Click File on main menu bar of CodeWarrior IDE - menu appears
- c. Click Exit - CodeWarrior IDE exits

Congratulations!

You have created a simple Palm OS program using the CodeWarrior software and a Palm OS device.
