Creating a Project in Code Warrior

Firstly click on the codewarrior icon and start the Code Warrior IDE. The Code Warrior icons looks like this...



Once Code Warrior has started you will need to create a project before you can do anything else. The project contains all the setting and options, as well as all the libraries and code required to successfully build your program.

Step 1: Click on the "File" menu and select "New ... ".

| The Edit View Sea | rch Project Processor E |
|--------------------|-------------------------|
| New Text File | Ctrl+N |
| New | Ctrl+Shift+N |
| Open | Ctrl+O |
| Find and Open File | . Ctrl+D |
| Close | Ctrl+W |
| Save | Ctrl+S |
| Save All | Ctrl+Shift+S |
| Save As | |
| Save A Copy As | |
| Revert | |
| Open Workspace | |
| Close Workspace | |
| Save Workspace | |
| Save Workspace As | |
| Import Project | |
| Export Project | |
| Page Setup | |
| Print | Ctrl+P |
| Open Recent | • |
| 813 | |

Step 2: The following dialog box will open, name your project, change the path and then click "OK" to continue to the next step....



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Step 3: Starting the project wizard. The project wizard will ask you a series of question so that it can create the right type of project.

| New Project Wizard - Page 1 | | |
|---|--|--------------|
| and a start of the second s | Welcome to the project wizard. This wizard will guide you through the creation of a CodeWarrior project. By asking a series of questions, such as processor derivative, programming language, and several other polinon, it will help you create a project with your desired settings. | Read this |
| Freescale | | Click "Next" |
| - | < Back Next > Cancel | |

Step 4: Select the right HS12 derivative (MC9S12XDP512). Code Warrior can be used for many different Freescale processors. So you need to ensure you select the right one.



We only want to use the single core (HCS12X) in our projects, so chose the single core option and click "Next".

| New Project Wizard - Page 3 | E Contraction of the second | X |
|--|---|--------------|
| Statoro. | Would you like to have initially support for the XGATE? | |
| 2 marara | Single Core (HCS12X) | |
| de la companya de la | Multi Core (HCS12X and XGATE in RAM) | |
| and the second second | Multi Core (HCS12X and XGATE in FLASH) | |
| | The created project will only contain source or code for the HCS12%. However it is possible to manually add XGATE support later. | |
| freescale services ductor | × | Click "Next" |
| | < Back Next > Cancel | |

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Step 5: Choosing the development language. Code Warrior can be used to develop programs in "C", "C++", or "Assembly". We are primarily developing our programs in Assembly.

| New Project Wizard - Page 4 | X | |
|-----------------------------|---|--|
| al al and a second | Please choose the set of languages to be supported initially. You can make multiple selections. | Click the box next to "Assembly" |
| annana) Sanna | Assembly C++ | If there is a tick next to "C" or "C++", then click the box next to it |
| * | II only Assembly is selected, you can later choose to use either absolute/single file assembly application or relocatable assembly. | to untick it. |
| Freescale Hemocodulor | < <u>Back</u> Next> Cancel | Then click "Next" |

Step 6: Choosing the type of assembly code. Code Warrior can create either absolute or relocatable assembly. Absolute assembly has hard coded program locations (built for flash (\$4000)). Where as relocatable assembly can be built for any location. We want to only build absolute assembly programs.

| New Project Wizard - Page 5 | Which kind of assembly would you like? | Click the radio button next to "Absolute Assembly" |
|-----------------------------|---|--|
| Freescale | Using only one single assembly source file A with absolute assembly. No support for relocatable assembly or linker. | Then click "Next" |
| | < Back Next > Cancel | |

Step 7: The last step required in making the new project is choosing the type of debugger we will be using. We will only focus on using the "Full Chip Simulation".

| New Project Wizard - Page | 6 Please choose the connections you want. You can select multiple connections. | Select "Full Chip Simulation" |
|---------------------------|---|----------------------------------|
| | ✓ Fot Etrip Simulation PRE Multilin/Coclone Pro Soft es HCS12 Abaton BDI ↓TBDML | |
| <i>Freescale</i> | Freescale Full Chip Simulation with simulation of on-chip peripherals. Later on in the debugger you can switch to hardware debugging. | Then click "Finish" |
| | < <u>B</u> ack <u>Finish</u> Cancel | |

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Your new project will now be created.....

| New Project Wizard - Page 6 | X |
|-----------------------------|--|
| 19 plan | Please choose the connections you want. You can select multiple connections. |
| | Full Chip Simulation □ P&E Multilink/Cyclone Pro |
| Opening Project " | test.mcp" |
| | |
| Freescale Avenue Addetor | Freescale Full Chip Smulation with smulation of on-chip peripherals. Later on in the debugger you can switch to hardware debugging. |
| | < Back Cancel |

It is now recommended that you read the next document in this series called "Quick Guide to using Code Warrior", which will show you how to use Code Warrior.