



MPLAB® XCS Getting Started Guide

This document provides a starting point for programmers who are just starting out with the MPLAB® XCS C-Compiler, especially those who are unfamiliar with embedded programming or Microchip devices.

The following headings are listed in order as they appear in this guide:

Creating a Project in MPLAB XCS

Foundation Code

Compilation

Specifying Device Configuration Bits

Accessing Device Registers

Enabling Peripherals that Share Port Pins

Downloading and Running Your Code

Implementing a Main Loop

Using Interrupts

Conclusion

Before the MPLAB XCS C-Compiler can target hardware (H/W) for PIC devices, this guide uses the PIC18F4550 as an example (MPLAB XCS with a PIC18F4550 target device is used throughout this document) to show you how to use the MPLAB XCS C-Compiler to create and compile application code for almost any PIC MCU and hardware.

This guide assumes using the compiler from the MPLAB IDE Integrated Development Environment (IDE). However, you can use it from the command-line as well. If you have a development board, you can download and run code on your device. You can also use the debugger in MPLAB XCS to confirm the execution of your code.

To demonstrate getting started with the MPLAB XCS C-Compiler, you will be guided through the creation of a project that you can build and run. The project features an LCD module connected to a port pin. To accomplish this, the following actions, presented here in summary, are performed. They are expanded and described in more detail as you progress through the pages of this guide:

- Install [MPLAB XCS](#) on your host computer.
- Set the device Configuration bits using the [PIC18F4550](#) program.
- Enable any peripheral that uses the pin(s) used by the port.
- Initialize the port's data direction register, and write values to the port latch.
- Use a delay to ensure you can see the changes in state.

This guide assumes that you have MPLAB XCS and MPLAB XCS C-Compiler installed and activated (if applicable) before you commence. You should also use the previous version of the compiler, or the compiler operating in Free mode.

For assistance installing or activating the compiler, refer to [Installing and Running MPLAB XCS C-Compiler \(DS00000205\)](#). This document can be downloaded from the [Microchip Technology](#) web site, www.microchip.com.

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Scott C. Dulebohn



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