Part Number: SW006012

Summary

The MPLAB® C30 compiler is a full-featured ANSI compliant C compiler for the Microchip 16-bit devices: PIC24, dsPIC30F and dsPIC33F. MPLAB C30 is fully compatible with Microchip's MPLAB Integrated Development Environment (IDE), allowing source level debugging with the MPLAB ICE In-Circuit Emulator, MPLAB ICD 2 In-Circuit Debugger and MPLAB SIM Simulator.

Features

- ANSI compliant with standard, math, memory, data conversion and math libraries
- Generates relocatable object modules for enhanced code reuse
- Optimized to generate as much as 30% less code than other 16-bit MCU compilers
- Strong support for in-line assembly when total control is absolutely necessary
- Allows code and data to be located at absolute addresses
- Supports advanced code size optimizations

New in MPLAB C30 v2.00

- Early adopter support for PIC24 and dsPIC33 devices
- Early adopter device support. for dsPIC30F2020/21/22/23
- Support for DSP accumulator registers from the C language
- Support for DSP intrinsincs (functions) from the C language. DSP intrinsics map directly to native dsPIC assembly language instruction
- Student Edition of the C compiler

Student Edition

The MPLAB C30 C Compiler Student Edition is free! It is full-featured for the first 60 days. After 60 days only optimization level 1 can be enabled in the compiler. The compiler will continue to function after 60 days, but code size may increase.

Upgrade to v2.03

Use this to upgrade a previously purchased version of the compiler. The upgrade includes full documentation. All documents are also available separately in the **Downloads** section.

MPLAB C30 v2.03 supports PIC24 and dsPIC33 devices. Owners of previous versions can upgrade by clicking on the link below. The MPLAB C30 Student Edition is also updated.

Patch for Interrupt and CONFIG2 fix

This patch fixes inaccurate warnings for PIC24F, PIC24H, and PIC33F interrupt function names and corrects an incorrect address for configuration word CONFIG2 on a PIC24F device. This patch can be applied to the Student Edition v2.03