### **MPLAB**

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**MPLAB** is a proprietary freeware <u>integrated development environment</u> for the development of <u>embedded applications</u> on <u>PIC</u> and <u>dsPIC</u> <u>microcontrollers</u>, and is developed by <u>Microchip Technology</u>.  $\frac{111|2|3|4|5|5|6|7|8}{112|3|4|5|5|6|7|8}$ 

MPLAB X is the latest edition of MPLAB, and is developed on the <u>NetBeans</u> platform. MPLAB and MPLAB X support project management, code editing, debugging and programming of Microchip 8-bit PIC and AVR (including ATMEGA) microcontrollers, 16-bit PIC24 and dsPIC microcontrollers, as well as 32-bit SAM (ARM) and PIC32 (MIPS) microcontrollers.

MPLAB is designed to work with MPLAB-certified devices such as the MPLAB ICD 3 and MPLAB REAL ICE, for programming and debugging PIC microcontrollers using a personal computer. PICKit programmers are also supported by MPLAB.

MPLAB X supports automatic code generation with the MPLAB Code Configurator and the MPLAB Harmony Configurator plugins.

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### MPLAB X[edit]

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Website MPLAB X Homepage

MPLAB X is the latest version of the MPLAB IDE built by <u>Microchip Technology</u>, and is based on the open-source <u>NetBeans</u> platform. MPLAB X supports editing, debugging and programming of Microchip 8-bit, 16-bit and 32-bit <u>PIC</u> <u>microcontrollers</u>.

MPLAB X is the first version of the IDE to include cross-platform support for  $\underline{\text{Mac OS}}$  X and  $\underline{\text{Linux}}$  operating systems, in addition to  $\underline{\text{Microsoft Windows}}$ .

MPLAB X supports the following compilers:

- MPLAB XC8 C compiler for 8-bit PIC and AVR devices [11][15]
- MPLAB XC16 C compiler for 16-bit PIC devices<sup>[15]</sup>
- MPLAB XC32 C/<u>C++</u> compiler for 32-bit MIPS-based PIC32 and ARM-based SAM devices [11][15]
- HI-TECH C C compiler for 8-bit PIC devices (discontinued)[16]
- <u>SDCC</u> open-source C compiler[17]

### MPLAB 8.x[edit]

## MPLAB IDE



**Developer(s)** Microchip Technology

**Stable release** 8.92<sup>[18]</sup> / July 23, 2013; 6 years ago

Written in  $\underline{C++}$ 

Operating system <u>Microsoft Windows</u>

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 $\begin{tabular}{ll} Website & \underline{www.microchip.com/mplabx} \end{tabular}$ 

MPLAB 8.x is the last version of the legacy MPLAB IDE technology, custom built by <u>Microchip Technology</u> in Microsoft <u>Visual C++</u>. MPLAB supports project management, editing, debugging and programming of Microchip 8-bit, 16-bit and 32-bit <u>PIC microcontrollers</u>. MPLAB only works on <u>Microsoft Windows</u>. MPLAB is still available from Microchip's archives, but is not recommended for new projects. [18]

MPLAB supports the following compilers:[18]

- MPLAB MPASM Assembler
- MPLAB ASM30 Assembler
- MPLAB C Compiler for PIC18
- MPLAB C Compiler for PIC24 and dsPIC DSCs
- MPLAB C Compiler for PIC32
- HI-TECH C