

Introducing the XC8 Compiler

Up until version 8.10, MPLAB was bundled with HI-TECH's "PICC-Lite" compiler, which supported all the baseline (12-bit) PICs available at that time, including those used in this tutorial series, with no restrictions. It also supports a small number of the mid-range (14-bit) PICs – although, for most of the mid-range devices it supported, PICC-Lite limited the amount of data and program memory that could be used, to provide an incentive to buy the full compiler. Microchip have since acquired HI-TECH Software, and no longer supply or support PICC-Lite. As such, PICC-Lite will not be covered in these tutorials.

XC8 supports the whole 8-bit PIC10/12/16/18 series in a single edition, with different licence keys unlocking different levels of code optimisation – "Free" (free, but no optimisation), "Standard" and "PRO" (most expensive and highest optimisation).

Microchip XC compilers are also available for the PIC24, dsPIC and PIC32 families.

XC8's "Free mode" supports all 8-bit (including baseline and mid-range) PICs, with no memory restrictions. However, in this mode, most compiler optimisation is turned off, making the generated code around twice the size of that generated by PICC-Lite.

This gives those developing for baseline and mid-range PICs easy access to a free compiler supporting a much wider range of devices than PICC-Lite does, without memory usage restrictions, albeit at the cost of much larger generated code. And XC8 will continue to be maintained, supporting new baseline and mid-range devices over time.

But if you are using Windows and developing code for a supported mid-range PIC, it is quite valid to continue to use PICC-Lite (if you are able to locate a copy – by downloading MPLAB 8.10 from the archives on www.microchip.com, for example), since it will generate much more efficient code. It can be installed alongside XC8. But to repeat – PICC-Lite won't be described in these lessons.

Regardless of which version of MPLAB you are using, the XC8 installer (for Windows, Linux or Mac) has to be downloaded separately from www.microchip.com.

When you run the XC8 installer, you will be asked to enter a license activation key. Unless you have purchased the commercial version, you should leave this blank. You can then choose whether to run the compiler in "Free mode", or activate an evaluation license. We'll be using "Free mode" in these lessons, but it's ok to use the evaluation license (for 60 days) if you choose to.

See [baseline assembler lesson 1](#) for more detail on installing and using MPLAB 8 or MPLAB X.

Data Types

One of the problems with implementing ANSI-standard C on microcontrollers is that there is often a need to work with individual bits, while the smallest data-type included in the ANSI standard is 'char', which is normally considered to be a single byte, or 8 bits. Another problem is the length of a standard integer ('int') is not defined, being implementation-dependent. Whether an 'int' is 16 or 32 bits is an issue on larger systems, but it makes a much more significant difference to code portability on microcontrollers. Similarly, the sizes of 'float', 'double', and the effect of the modifiers 'short' and 'long' is not defined by the standard.

So various compilers use different sizes for the "standard" data types, and for microcontroller implementations it is common to add a single-bit type as well – generally specific to that compiler.

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