

Design Software

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The following design packages are included, some in zipped format.

MPLAB Version 7.40, by kind permission of Microchip Inc.

Microchip C18 C compiler Student Version 3.02, by kind permission of Microchip Inc.

The Salvo Real Time Operating System, Lite Version 3.2.3-c/d, by kind permission of Pumpkin Inc.

Note: MPLAB is a continuously evolving design environment, and programs in the book were developed using a mix of MPLAB Versions 7.00 and 7.22, which are very similar to each other. Screen shots of MPLAB in the book may be from either of these. When granting permission to include MPLAB on the CD, Microchip Inc. requested the then current version to be included. Accordingly the version on the CD is version 7.40, current as the book went to press. This is very similar to version 7.20 and 7.22, and small differences should not cause problems. The book uses the C18 C compiler Version 3.00 (not the student version), and Salvo version 3.2.3.c.

One purpose of issuing this software set with the book is because it relates directly to the book, and it ensures compatible tools. Readers who work with the book in the coming months and years may wish to use the latest versions of all software packages. The software included on the CD will still be of use, if readers wish to develop programs from the book within an environment that is close to the original one used.

Installing

Note: Installing software can be a complex procedure, and will depend on the computer in use, and the configuration required. General guidelines are given below. For full guidance, the software supplier's own documentation should be studied. Both Microchip and Pumpkin also offer excellent User Forums and technical support, through their web sites, at:

<http://www.microchip.com>

AND

<http://www.pumpkininc.com/>

MPLAB

The full Zipped installation is included, in the folder **mp740_full**. Copy the folder to the Programs folder on your C drive. Unzip the folder. Usually the files can be extracted from the zipped version by double-clicking on the folder, and selecting **Extract all Files** in the dialog box that appears.

Run **Install_MPLAB_v740.exe**, and follow the instructions as they appear on the screen.

Further guidance on installation can be found in the **Readme for MPLAB IDE** file, found in zipped format in the **MPLAB_v740_READMEs** folder, or on the Microchip web site.

C18 C Compiler

Copy the file **MPLAB-C18-Student-Edition-doc-v3_02.exe** to the Programs folder on your C drive. Then run it, following the instructions as they appear on the screen. Full guidance on installation can be found in the **MPLAB® C18 C COMPILER GETTING STARTED** manual, included on the CD.

Note that the compiler will function as the full version for 60 days after installation. After that, it continues to operate, but some of its features are no longer available.

Salvo RTOS

Copy the file **salvo-lite-pic-3.2.3.exe** to the Programs folder on your C drive. Then run it, following the instructions as they appear on the screen. The “Typical” configuration is recommended. When asked to indicate which C compiler will be used, select the Microchip C18 compiler only, unless you have plans to use other.

You will also need a library compatible with version 3 of the C18 compiler. The book uses the library set in **salvo-lite-pic-c.zip**, which is compatible with the Microchip tools used. The **salvo-lite-pic-d.zip** is however recommended, as it resolves one or two minor issues. Copy the selected zip file over to the Programs folder, and extract the contents in the usual way. Ensure when using Salvo that you specify the library in **salvo-lite-pic-3.2.3-c\salvo\lib\mcc18\v3**, and not the older library, in **salvo\lib\mcc18**.