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Programming 16-Bit PIC Microcontrollers In C, Second Edition: Learning To Fly The PIC 24



Synopsis

New in the second edition: MPLAB X support and MPLAB C for the PIC24F v3 and later libraries I2C, SPI interface 100% assembly free solutions Improved video, PAL/NTSC Improved audio, RIFF files decoding PIC24F GA1, GA2, GB1 and GB2 support Most readers will associate Microchip's name with the ubiquitous 8-bit PIC microcontrollers but it is the new 16-bit PIC24F family that is truly stealing the scene. Orders of magnitude increases of performance, memory size and the rich peripheral set make programming these devices in C a must. This new guide by Microchip insider Lucio Di Jasio teaches readers everything they need to know about the architecture of these new chips: How to program them, how to test them, and how to debug them. Di Jasio's common-sense, practical, hands-on approach starts out with basic functions and guides the reader step-by-step through even the most sophisticated programming scenarios. Experienced PIC users, including embedded engineers, programmers, designers, and SW and HW engineers, and new comers alike will benefit from the text's many thorough examples, which demonstrate how to nimbly sidestep common obstacles and take full advantage of the many new features. A Microchip insider introduces you to 16-bit PIC programming the easy way! Condenses typical introductory "fluff" focusing instead on examples and exercises that show how to solve common, real-world design problems quickly! Includes handy checklists to help readers perform the most common programming and debugging tasks

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Customer Reviews

There are many books published on how to program or use Microchip's PIC product in various application categories. For networking, Fred Eady's, "Networking and Internetworking With Microcontrollers", ISBN 0-7506-7698, Keith Curtis, "Embedded Multitasking", ISBN 0-7506-7918-2, and Creed Huddleston's, "Intelligent Sensor Design", ISBN 0-7506-7755-4, are but 3 of my favorites (there are more). This book is a deserving the serious PIC programmer's attention; that is, if you want to really use the PIC24 or dsPIC. This book does not is not written for the dsPIC, but the architecture is similar enough that, aside from the DSP engine, you can learn almost all of the non-DSP features of the dsPIC (save for a select few dsPIC features). Lucio has managed to put together a real interesting collection of material to help you learn the PIC24 and in a fun way. Lucio's theme is "Learning to Fly the PIC24". The book addresses primarily C developers, with plenty of example code. Assembly programmers are not left out, however as the format of each chapter is: a flight plan, the flight, post flight briefing, and notes for PIC experts, and assembly language experts. Lucio is a PIC expert at Microchip so you will learn from the best. The book includes a CD-ROM with source code in C and the student version of the C30 compiler. The book is not written for "absolute" beginners. Some familiarity with assembly language and basic understanding of the C language. Prior exposure to the PIC architecture would be helpfull as well. Part I is about the basics of the PIC24. Chapter 1 takes you through the basics of programming the PIC24; Compiling, linking, building a project, port initialization, and other tips and tricks.

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