Embedded Systems with ARM Cortex-M3 Microcontrollers in Assembly Language and C

Yifeng Zhu

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Embedded Systems with ARM Cortex-M3 Microcontrollers in Assembly Language and C Yifeng Zhu This book introduces basic programming of ARM Cortex chips in assembly language and the fundamentals of embedded system design. It presents data representations, assembly instruction syntax, implementing basic controls of C language at the assembly level, and instruction encoding and decoding. The book also covers many advanced components of embedded systems, such as software and hardware interrupts, general purpose I/O, LCD driver, keypad interaction, real-time clock, stepper motor control, PWM input and output, digital input capture, direct memory access (DMA), digital and analog conversion, and serial communication (USART, I2C, SPI, and USB). The book has the following features:

- Emphasis on structured programming and top-down modular design in assembly language
- Line-by-line translation between C and ARM assembly for most example codes
- Mixture of C and assembly languages, such as a C program calling assembly subroutines, and an assembly program calling C subroutines
- Implementation of context switch between multiple concurrently running tasks according to a round-robin scheduling algorithm

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