Modern Assembly Language Programming with the ARM Processor

Larry D. Pyeatt

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Modern Assembly Language Programming with the ARM Processor carefully explains the concepts of assembly language programming, slowly building from simple examples towards complex programming on bare-metal embedded systems. Considerable emphasis is put on showing how to develop good, structured assembly code.

More advanced topics, such as fixed and floating point mathematics, optimization, and the ARM VFP and NEON extensions are also covered, helping users understand representations of, and arithmetic operations on, integral and real numbers in any base, gain a basic understanding of processor architectures and instruction sets, write ARM assembly language programs, quickly learn any new assembly language, implement the procedures and mechanisms for handling interrupt processing and performing, interface assembly language with high-level languages such as C/C++, and explore ethical issues involving safety-critical applications.

- Concepts are illustrated and reinforced with a large number of tested and debugged assembly and C source listing
- Intended for use on very low-cost platforms, such as the Raspberry Pi or pcDuino, but with the support of a full Linux operating system and development tools
- Includes discussions of advanced topics, such as fixed and floating point mathematics, optimization, and the ARM VFP and NEON extensions

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