

Raspberry Pi Assembly Language Programming

ARM Processor Coding

Gain all the skills required to dive into the fundamentals of the Raspberry Pi hardware architecture and how data is stored in the Pi's memory. This book provides you with working starting points for your own projects while you develop a working knowledge of Assembly language programming on the Raspberry Pi.

You'll learn how to interface to the Pi's hardware including accessing the GPIO ports. The book will cover the basics of code optimization as well as how to inter-operate with C and Python code, so you'll develop enough background to use the official ARM reference documentation for further projects.

With *Raspberry Pi Assembly Language Programming* as your guide you'll study how to read and reverse engineer machine code and then then apply those new skills to study code examples and take control of your Pi's hardware and software both.

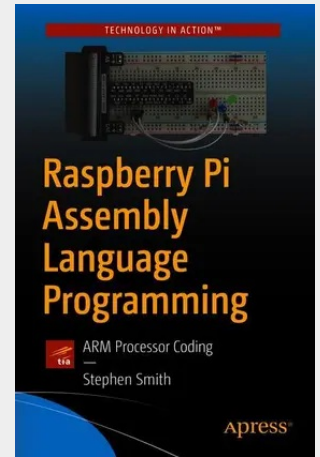
What You'll Learn

- Program basic ARM 32-Bit Assembly Language
- Interface with the various hardware devices on the Raspberry Pi
- Comprehend code containing Assembly language
- Use the official ARM reference documentation

Who This Book Is For

Coders who have already learned to program in a higher-level language like Python, Java, C#, or C and now wish to learn Assembly programming.

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