

Modern X86 Assembly Language Programming shows the fundamentals of x86 assembly language programming. It focuses on the aspects of the x86 instruction set that are most relevant to application software development. The books structure and sample code are designed to help the reader quickly understand x86 assembly language programming and the computational capabilities of the x86 platform. Book appendixes can be downloaded here: <http://www.apress.com/9781484200650?gtmf=s> Major topics of the book include the following: 32-bit core architecture, data types, internal registers, memory addressing modes, and the basic instruction set X87 core architecture, register stack, special purpose registers, floating-point encodings, and instruction set MMX technology and instruction set Streaming SIMD extensions (SSE) and Advanced Vector Extensions (AVX) including internal registers, packed integer arithmetic, packed and scalar floating-point arithmetic, and associated instruction sets 64-bit core architecture, data types, internal registers, memory addressing modes, and the basic instruction set 64-bit extensions to SSE and AVX technologies X86 assembly language optimization strategies and techniques What you'll learn How to use the x86's 32-bit and 64-bit instruction sets to create performance-enhancing functions that are callable from a high-level language (C++) How to use x86 assembly language to efficiently manipulate common programming constructs including integers, floating-point values, text strings, arrays, and structures How to use the SSE and AVX extensions to significantly accelerate the performance of computationally-intensive algorithms and subroutines in problem domains such as image processing, computer graphics, mathematics, and statistics How to use various coding strategies and techniques to optimally exploit the x86's microarchitecture for maximum possible performance Book appendixes can be downloaded here: <http://www.apress.com/9781484200650?gtmf=s> Who this book is for The target audience for Modern X86 Assembly Language Programming is software developers including: Software developers who are creating application programs for Windows-based platforms and want to learn how to write performance-enhancing algorithms and functions using x86 assembly language Software developers who are creating application programs for non-Windows environments and want to learn x86 assembly language programming Software developers who have a basic understanding of x86 assembly language programming and want to learn how to use SSE and AVX Software developers and computer science students who want or need to gain a better understanding of the x86 platform including its internal architecture and instruction sets The primary audience for the book is Windows software developers since the sample code will be created using Visual C++ and Microsoft Macro Assembler. Developers targeting non-Windows platforms, however, also can learn from the book since most of the content will be organized and communicated independent of any specific operating system. In order to understand the book's subject material, a background that includes some programming experience using C or C++ will be helpful. Experience with or knowledge of a particular Windows API will not be a prerequisite to benefit from the book.

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