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The X86 Assembly's modern language programming shows the basics of programming in the assembly x86 language. It focuses on aspects of the x86 set of instructions that are most relevant to application software development. The structure of the book and sample code are designed to help the reader quickly understand x86 programming in the assembly language and the computational capabilities of the x86 platform. Book Year: 2014 Book Page: 700 ISBN: 1484200659 Book language: en file size: 8.34 MB File type: pdf Published: 17 May 2019 - 04:52 This repository accompanies the modern X86 Build Language Programming by Daniel Kusswurm (Apress, 2014). Download the files as a lightning bolt button or clone the repository to your machine using Git. The release of v1.0 corresponds to the code in the published book, with no fixes or updates. Contributions See file to Contributing.md information on how you can contribute to this repository. Back Matter Gain the basics of programming in the assembly language x86 and focus on the updated aspects of the x86 set of instructions that are most relevant to application software development. This book covers topics such as the new Advanced Vector Extensions (AVX) 512 programming, from the latest x86 set of instructions, as well as MMX technology and a set of instructions. The second edition focuses exclusively on the 64-bit basic programming architecture and AVX programming. The state-of-the-art X86 Assembly code and example code is designed to help you quickly understand x86 assembly programming and the computational capabilities of the x86 platform. After reading and using this book, you'll be able to encode performance-enhancing features and algorithms using x86 64-bit build language as well as AVX, AVX2 and AVX-512 set extensions. You'll be able to discover the details of the x86 64-bit platform, including its core architecture, data types, registers, memory modes, as well as basic instructions and a set of instructions x86 64-bit set to create performance-enhancing features that can be called from high-level language (C) Employ x86 64-bit build language to effectively manage shared data types and programming, including integers, text lines, arrays and structures. Optimize instructions AVX, AVX2, and AVX-512 set instructions to significantly speed up the performance of computationally-intensive algorithms in problem areas such as image processing, computer graphics, math, and statistics. Apply various coding strategies and techniques to optimally use x86 64-bit, AVX, AVX2, and AVX-512 set of instructions for the maximum possible performance build programming 32-bit 64-bit source of language code avx simd streaming avx-512 Page 2 Chapter First Online : 07 December 2018 .

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This book covers topics such as x86 64-bit programming and vector expansion program (AVX) programming. The second edition focuses exclusively on the 64-bit basic programming architecture and AVX programming. The current X86 Assembly language structure and code are designed to help you quickly understand x86 assembly programming and the computational capabilities of the x86 platform. After reading and using this book, you'll be able to encode performance-enhancing features and algorithms using x86 64-bit build language and AVX, AVX2 and AVX-512 instruction set extensions. What you'll learn Open the details of the x86 64-bit platform, including its basic architecture, data types, registers, memory modes, and basic settings of the latest instruction x86 64-bit set of instructions to create performance-enhancing features that can be removed from high-level language (C) Use x86 64-bit build language to effectively manage general data types and design programming, including integers, text lines Arrays and structures. Emit an avx set of instructions to perform a scalable floating point exploit AVX arithmetic, AVX2 and AVX-512 set instructions to significantly speed up the development of computationally-intensive algorithms in problem areas such as image processing, computer graphics, maths and statistics. Apply different strategies and coding techniques for optimal use of x86 64-bit, AVX, AVX2 and AVX-512 sets of instructions for possible maximum performance. Who want to learn how to write code using the x86 64-bit build language. It's also perfect for software that already has a basic understanding of x86 32-bit or 64-bit programming in the Arang language and is interested in learning how to take advantage of the capabilities of SIMD AVX, AVX2 and AVX-512. 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