

Modern X86 Assembly Language Programming

Randall Hyde

Modern X86 Assembly Language Programming Daniel Kusswurm, 2014-11-29 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 book's structure and sample code are designed to help the reader quickly understand x86 assembly language programming and the computational capabilities of the x86 platform. Please note: Book appendixes can be downloaded here: <http://www.apress.com/9781484200650> 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

Modern X86 Assembly Language Programming Daniel Kusswurm, 2018-12-06 Gain the fundamentals of x86 64-bit assembly language programming and focus on the updated aspects of the x86 instruction set that are most relevant to application software development. This book covers topics including x86 64-bit programming and Advanced Vector Extensions (AVX) programming. The focus in this second edition is exclusively on 64-bit base programming architecture and AVX programming. Modern X86 Assembly Language Programming's structure and sample code are designed to help you quickly understand x86 assembly language programming and the computational capabilities of the x86 platform. After reading and using this book, you'll be able to code performance-enhancing functions and algorithms using x86 64-bit assembly language and the AVX, AVX2 and AVX-512 instruction set extensions. What You Will Learn Discover details of the x86 64-bit platform including its core architecture, data types, registers, memory addressing modes, and the basic instruction set Use the x86 64-bit instruction set to create performance-enhancing functions that are callable from a high-level language (C++) Employ x86 64-bit assembly language to efficiently manipulate common data types and programming constructs including integers, text strings, arrays, and structures Use the AVX instruction set to perform scalar floating-point arithmetic Exploit the AVX, AVX2, and AVX-512 instruction sets to significantly accelerate the performance of computationally-intense

algorithms in problem domains such as image processing, computer graphics, mathematics, and statistics Apply various coding strategies and techniques to optimally exploit the x86 64-bit, AVX, AVX2, and AVX-512 instruction sets for maximum possible performance Who This Book Is For Software developers who want to learn how to write code using x86 64-bit assembly language. It's also ideal for software developers who already have a basic understanding of x86 32-bit or 64-bit assembly language programming and are interested in learning how to exploit the SIMD capabilities of AVX, AVX2 and AVX-512.

Beginning x64 Assembly Programming Jo Van Hoey,2019-10-31 Program in assembly starting with simple and basic programs, all the way up to AVX programming. By the end of this book, you will be able to write and read assembly code, mix assembly with higher level languages, know what AVX is, and a lot more than that. The code used in Beginning x64 Assembly Programming is kept as simple as possible, which means: no graphical user interfaces or whistles and bells or error checking. Adding all these nice features would distract your attention from the purpose: learning assembly language. The theory is limited to a strict minimum: a little bit on binary numbers, a short presentation of logical operators, and some limited linear algebra. And we stay far away from doing floating point conversions. The assembly code is presented in complete programs, so that you can test them on your computer, play with them, change them, break them. This book will also show you what tools can be used, how to use them, and the potential problems in those tools. It is not the intention to give you a comprehensive course on all of the assembly instructions, which is impossible in one book: look at the size of the Intel Manuals. Instead, the author will give you a taste of the main items, so that you will have an idea about what is going on. If you work through this book, you will acquire the knowledge to investigate certain domains more in detail on your own. The majority of the book is dedicated to assembly on Linux, because it is the easiest platform to learn assembly language. At the end the author provides a number of chapters to get you on your way with assembly on Windows. You will see that once you have Linux assembly under your belt, it is much easier to take on Windows assembly. This book should not be the first book you read on programming, if you have never programmed before, put this book aside for a while and learn some basics of programming with a higher-level language such as C. What You Will LearnDiscover how a CPU and memory worksAppreciate how a computer and operating system work togetherSee how high-level language compilers generate machine language, and use that knowledge to write more efficient codeBe better equipped to analyze bugs in your programsGet your program working, which is the fun partInvestigate malware and take the necessary actions and precautions Who This Book Is For Programmers in high level languages. It is also for systems engineers and security engineers working for malware investigators. Required knowledge: Linux, Windows, virtualization, and higher level programming languages (preferably C or C++).

The Art of 64-Bit Assembly, Volume 1 Randall Hyde,2021-11-30 A new assembly language programming book from a

well-loved master. *Art of 64-bit Assembly Language* capitalizes on the long-lived success of Hyde's seminal *The Art of Assembly Language*. Randall Hyde's *The Art of Assembly Language* has been the go-to book for learning assembly language for decades. Hyde's latest work, *Art of 64-bit Assembly Language* is the 64-bit version of this popular text. This book guides you through the maze of assembly language programming by showing how to write assembly code that mimics operations in High-Level Languages. This leverages your HLL knowledge to rapidly understand x86-64 assembly language. This new work uses the Microsoft Macro Assembler (MASM), the most popular x86-64 assembler today. Hyde covers the standard integer set, as well as the x87 FPU, SIMD parallel instructions, SIMD scalar instructions (including high-performance floating-point instructions), and MASM's very powerful macro facilities. You'll learn in detail: how to implement high-level language data and control structures in assembly language; how to write parallel algorithms using the SIMD (single-instruction, multiple-data) instructions on the x86-64; and how to write stand alone assembly programs and assembly code to link with HLL code. You'll also learn how to optimize certain algorithms in assembly to produce faster code.

Modern Arm Assembly Language Programming Daniel Kusswurm, 2021-03-18 Gain the fundamentals of Armv8-A 32-bit and 64-bit assembly language programming. This book emphasizes Armv8-A assembly language topics that are relevant to modern software development. It is designed to help you quickly understand Armv8-A assembly language programming and the computational resources of Arm's SIMD platform. It also contains an abundance of source code that is structured to accelerate learning and comprehension of essential Armv8-A assembly language constructs and SIMD programming concepts. After reading this book, you will be able to code performance-optimized functions and algorithms using Armv8-A 32-bit and 64-bit assembly language. *Modern Arm Assembly Language Programming* accentuates the coding of Armv8-A 32-bit and 64-bit assembly language functions that are callable from C++. Multiple chapters are also devoted to Armv8-A SIMD assembly language programming. These chapters discuss how to code functions that are used in computationally intense applications such as machine learning, image processing, audio and video encoding, and computer graphics. The source code examples were developed using the GNU toolchain (g++, gas, and make) and tested on a Raspberry Pi 4 Model B running Raspbian (32-bit) and Ubuntu Server (64-bit). It is important to note that this is a book about Armv8-A assembly language programming and not the Raspberry Pi. **What You Will Learn** See essential details about the Armv8-A 32-bit and 64-bit architectures including data types, general purpose registers, floating-point and SIMD registers, and addressing modes Use the Armv8-A 32-bit and 64-bit instruction sets to create performance-enhancing functions that are callable from C++ Employ Armv8-A assembly language to efficiently manipulate common data types and programming constructs including integers, arrays, matrices, and user-defined structures Create assembly language functions that perform scalar floating-point arithmetic using the Armv8-A 32-bit and 64-bit instruction sets Harness the Armv8-A SIMD instruction sets to significantly accelerate the performance of computationally intense algorithms in applications such as machine learning, image

processing, computer graphics, mathematics, and statistics. Apply leading-edge coding strategies and techniques to optimally exploit the Armv8-A 32-bit and 64-bit instruction sets for maximum possible performance Who This Book Is For Software developers who are creating programs for Armv8-A platforms and want to learn how to code performance-enhancing algorithms and functions using the Armv8-A 32-bit and 64-bit instruction sets. Readers should have previous high-level language programming experience and a basic understanding of C++.

LINUX Assembly Language Programming Bob Neveln,2000 Master x86 language from the Linux point of view with this one-concept-at-a-time guide. Neveln gives an under the hood perspective of how Linux works and shows how to create device drivers. The CD-ROM includes all source code from the book plus edlinas, an x86 simulator that's perfect for hands-on, interactive assembler development.

Low-Level Programming Igor Zhirkov,2017-06-27 Learn Intel 64 assembly language and architecture, become proficient in C, and understand how the programs are compiled and executed down to machine instructions, enabling you to write robust, high-performance code. Low-Level Programming explains Intel 64 architecture as the result of von Neumann architecture evolution. The book teaches the latest version of the C language (C11) and assembly language from scratch. It covers the entire path from source code to program execution, including generation of ELF object files, and static and dynamic linking. Code examples and exercises are included along with the best code practices. Optimization capabilities and limits of modern compilers are examined, enabling you to balance between program readability and performance. The use of various performance-gain techniques is demonstrated, such as SSE instructions and pre-fetching. Relevant Computer Science topics such as models of computation and formal grammars are addressed, and their practical value explained. What You'll Learn Low-Level Programming teaches programmers to: Freely write in assembly language Understand the programming model of Intel 64 Write maintainable and robust code in C11 Follow the compilation process and decipher assembly listings Debug errors in compiled assembly code Use appropriate models of computation to greatly reduce program complexity Write performance-critical code Comprehend the impact of a weak memory model in multi-threaded applications Who This Book Is For Intermediate to advanced programmers and programming students

The Art of Assembly Language, 2nd Edition Randall Hyde,2010-03-01 Assembly is a low-level programming language that's one step above a computer's native machine language. Although assembly language is commonly used for writing device drivers, emulators, and video games, many programmers find its somewhat unfriendly syntax intimidating to learn and use. Since 1996, Randall Hyde's The Art of Assembly Language has provided a comprehensive, plain-English, and patient introduction to 32-bit x86 assembly for non-assembly programmers. Hyde's primary teaching tool, High Level Assembler (or HLA), incorporates many of the features found in high-level languages (like C, C++, and Java) to help you quickly grasp basic assembly concepts. HLA lets you write true low-level code while enjoying the benefits of high-level language programming.

As you read *The Art of Assembly Language*, you'll learn the low-level theory fundamental to computer science and turn that understanding into real, functional code. You'll learn how to: -Edit, compile, and run HLA programs -Declare and use constants, scalar variables, pointers, arrays, structures, unions, and namespaces -Translate arithmetic expressions (integer and floating point) -Convert high-level control structures This much anticipated second edition of *The Art of Assembly Language* has been updated to reflect recent changes to HLA and to support Linux, Mac OS X, and FreeBSD. Whether you're new to programming or you have experience with high-level languages, *The Art of Assembly Language, 2nd Edition* is your essential guide to learning this complex, low-level language.

Modern Assembly Language Programming with the ARM Processor Larry D Pyeatt, 2024-05-22 *Modern Assembly Language Programming with the ARM Processor, Second Edition* is a tutorial-based book on assembly language programming using the ARM processor. It presents the concepts of assembly language programming in different ways, slowly building from simple examples towards complex programming on bare-metal embedded systems. The ARM processor was chosen as it has fewer instructions and irregular addressing rules to learn than most other architectures, allowing more time to spend on teaching assembly language programming concepts and good programming practice. Careful consideration is given to topics that students struggle to grasp, such as registers vs. memory and the relationship between pointers and addresses, recursion, and non-integral binary mathematics. A whole chapter is dedicated to structured programming principles. Concepts are illustrated and reinforced with many tested and debugged assembly and C source listings. The book also covers advanced topics such as fixed- and floating-point mathematics, optimization, and the ARM VFP and NEON™ extensions. - Includes concepts that 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 - Explores ethical issues involving safety-critical applications - Features updated content, including a new chapter on the Thumb instruction set

X86-64 Assembly Language Programming with Ubuntu Ed Jorgensen, 2020-12-27 The purpose of this text is to provide a reference for University level assembly language and systems programming courses. Specifically, this text addresses the x86-64 instruction set for the popular x86-64 class of processors using the Ubuntu 64-bit Operating System (OS). While the provided code and various examples should work under any Linux-based 64-bit OS, they have only been tested under Ubuntu 14.04 LTS (64-bit). The x86-64 is a Complex Instruction Set Computing (CISC) CPU design. This refers to the internal processor design philosophy. CISC processors typically include a wide variety of instructions (sometimes overlapping), varying instructions sizes, and a wide range of addressing modes. The term was retroactively coined in contrast to Reduced Instruction Set Computer (RISC3).

X86 Assembly Language and C Fundamentals Joseph Cavanagh,2013-01-22 The predominant language used in embedded microprocessors, assembly language lets you write programs that are typically faster and more compact than programs written in a high-level language and provide greater control over the program applications. Focusing on the languages used in X86 microprocessors, X86 Assembly Language and C Fundamentals expl

Modern Parallel Programming with C++ and Assembly Language Daniel Kusswurm,2022-03-20 Learn the fundamentals of x86 Single instruction multiple data (SIMD) programming using C++ intrinsic functions and x86-64 assembly language. This book emphasizes x86 SIMD programming topics and technologies that are relevant to modern software development in applications which can exploit data level parallelism, important for the processing of big data, large batches of data and related important in data science and much more. *Modern Parallel Programming with C++ and Assembly Language* is an instructional text that explains x86 SIMD programming using both C++ and assembly language. The book's content and organization are designed to help you quickly understand and exploit the SIMD capabilities of x86 processors. It also contains an abundance of source code that is structured to accelerate learning and comprehension of essential SIMD programming concepts and algorithms. After reading this book, you will be able to code performance-optimized AVX, AVX2, and AVX-512 algorithms using either C++ intrinsic functions or x86-64 assembly language. What You Will Learn Understand the essential details about x86 SIMD architectures and instruction sets including AVX, AVX2, and AVX-512. Master x86 SIMD data types, arithmetic instructions, and data management operations using both integer and floating-point operands. Code performance-enhancing functions and algorithms that fully exploit the SIMD capabilities of a modern x86 processor. Employ C++ intrinsic functions and x86-64 assembly language code to carry out arithmetic calculations using common programming constructs including arrays, matrices, and user-defined data structures. Harness the x86 SIMD instruction sets to significantly accelerate the performance of computationally intense algorithms in applications such as machine learning, image processing, computer graphics, statistics, and matrix arithmetic. Apply leading-edge coding strategies and techniques to optimally exploit the x86 SIMD instruction sets for maximum possible performance. Who This Book Is For Intermediate to advanced programmers/developers in general. Readers of this book should have previous programming experience with modern C++ (i.e., ANSI C++11 or later) and Assembly. Some familiarity with Microsoft's Visual Studio or the GNU toolchain will be helpful. The target audience for *Modern X86 SIMD Programming* are experienced software developers, programmers and maybe some hobbyists.

Modern X86 Assembly Language Programming Daniel Kusswurm,2017-07-13 Assembly language is as close to writing machine code as you can get without writing in pure hexadecimal. Since it is such a low-level language, it's not practical in all cases, but should definitely be considered when you're looking to maximize performance. With *Assembly Language* by Chris Rose, you'll learn how to write x64 assembly for modern CPUs, first by writing inline assembly for 32-bit applications,

and then writing native assembly for C++ projects. You'll learn the basics of memory spaces, data segments, CISC instructions, SIMD instructions, and much more. Whether you're working with Intel, AMD, or VIA CPUs, you'll find this book a valuable starting point since many of the instructions are shared between processors. This updated and expanded second edition of Book provides a user-friendly introduction to the subject, Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject. We hope you find this book useful in shaping your future career & Business.

Assembly Language Jeff Duntemann, 1992-10-06 Begins with the most fundamental, plain-English concepts and everyday analogies progressing to very sophisticated assembly principles and practices. Examples are based on the 8086/8088 chips but all code is usable with the entire Intel 80X86 family of microprocessors. Covers both TASM and MASM. Gives readers the foundation necessary to create their own executable assembly language programs.

Programming from the Ground Up Jonathan Bartlett, 2009-09-24 Programming from the Ground Up uses Linux assembly language to teach new programmers the most important concepts in programming. It takes you a step at a time through these concepts: * How the processor views memory * How the processor operates * How programs interact with the operating system * How computers represent data internally * How to do low-level and high-level optimization Most beginning-level programming books attempt to shield the reader from how their computer really works. Programming from the Ground Up starts by teaching how the computer works under the hood, so that the programmer will have a sufficient background to be successful in all areas of programming. This book is being used by Princeton University in their COS 217 Introduction to Programming Systems course.

Professional Assembly Language Richard Blum, 2005-02-11 Unlike high-level languages such as Java and C++, assembly language is much closer to the machine code that actually runs computers; it's used to create programs or modules that are very fast and efficient, as well as in hacking exploits and reverse engineering. Covering assembly language in the Pentium microprocessor environment, this code-intensive guide shows programmers how to create stand-alone assembly language programs as well as how to incorporate assembly language libraries or routines into existing high-level applications. Demonstrates how to manipulate data, incorporate advanced functions and libraries, and maximize application performance. Examples use C as a high-level language, Linux as the development environment, and GNU tools for assembling, compiling, linking, and debugging.

Assembly Language Step-by-Step Jeff Duntemann, 2011-03-03 The eagerly anticipated new edition of the bestselling introduction to x86 assembly language. The long-awaited third edition of this bestselling introduction to assembly language

has been completely rewritten to focus on 32-bit protected-mode Linux and the free NASM assembler. Assembly is the fundamental language bridging human ideas and the pure silicon hearts of computers, and popular author Jeff Dunteman retains his distinctive lighthearted style as he presents a step-by-step approach to this difficult technical discipline. He starts at the very beginning, explaining the basic ideas of programmable computing, the binary and hexadecimal number systems, the Intel x86 computer architecture, and the process of software development under Linux. From that foundation he systematically treats the x86 instruction set, memory addressing, procedures, macros, and interface to the C-language code libraries upon which Linux itself is built. Serves as an ideal introduction to x86 computing concepts, as demonstrated by the only language directly understood by the CPU itself Uses an approachable, conversational style that assumes no prior experience in programming of any kind Presents x86 architecture and assembly concepts through a cumulative tutorial approach that is ideal for self-paced instruction Focuses entirely on free, open-source software, including Ubuntu Linux, the NASM assembler, the Kate editor, and the Gdb/Insight debugger Includes an x86 instruction set reference for the most common machine instructions, specifically tailored for use by programming beginners Woven into the presentation are plenty of assembly code examples, plus practical tips on software design, coding, testing, and debugging, all using free, open-source software that may be downloaded without charge from the Internet.

Introduction to Computer Organization Robert G. Plantz, 2022-01-25 This hands-on tutorial is a broad examination of how a modern computer works. Classroom tested for over a decade, it gives readers a firm understanding of how computers do what they do, covering essentials like data storage, logic gates and transistors, data types, the CPU, assembly, and machine code. Introduction to Computer Organization gives programmers a practical understanding of what happens in a computer when you execute your code. Working from the ground up, the book starts with fundamental concepts like memory organization, digital circuit design, and computer arithmetic. It then uses C/C++ to explore how familiar high-level coding concepts—like control flow, input/output, and functions—are implemented in assembly language. The goal isn't to make you an assembly language programmer, but to help you understand what happens behind the scenes when you run your programs. Classroom-tested for over a decade, this book will also demystify topics like: How data is encoded in memory How the operating system manages hardware resources with exceptions and interrupts How Boolean algebra is used to implement the circuits that process digital information How a CPU is structured, and how it uses buses to execute a program stored in main memory How recursion is implemented in assembly, and how it can be used to solve repetitive problems How program code gets transformed into machine code the computer understands You may never have to write x86-64 assembly language or design hardware yourself, but knowing how the hardware and software works will make you a better, more confident programmer.

Assembly Language for X86 Processors Kip R Irvine, 2015-10-22

Introduction to 64 Bit Assembly Programming for Linux and OS X Ray Seyfarth, 2014-06-30 This is the third edition of this assembly language programming textbook introducing programmers to 64 bit Intel assembly language. The primary addition to the third edition is the discussion of the new version of the free integrated development environment, ebe, designed by the author specifically to meet the needs of assembly language programmers. The new ebe is a C++ program using the Qt library to implement a GUI environment consisting of a source window, a data window, a register, a floating point register window, a backtrace window, a console window, a terminal window and a project window along with 2 educational tools called the toy box and the bit bucket. The source window includes a full-featured text editor with convenient controls for assembling, linking and debugging a program. The project facility allows a program to be built from C source code files and assembly source files. Assembly is performed automatically using the yasm assembler and linking is performed with ld or gcc. Debugging operates by transparently sending commands into the gdb debugger while automatically displaying registers and variables after each debugging step. Additional information about ebe can be found at <http://www.rayseyfarth.com>. The second important addition is support for the OS X operating system. Assembly language is similar enough between the two systems to cover in a single book. The book discusses the differences between the systems. The book is intended as a first assembly language book for programmers experienced in high level programming in a language like C or C++. The assembly programming is performed using the yasm assembler automatically from the ebe IDE under the Linux operating system. The book primarily teaches how to write assembly code compatible with C programs. The reader will learn to call C functions from assembly language and to call assembly functions from C in addition to writing complete programs in assembly language. The gcc compiler is used internally to compile C programs. The book starts early emphasizing using ebe to debug programs, along with teaching equivalent commands using gdb. Being able to single-step assembly programs is critical in learning assembly programming. Ebe makes this far easier than using gdb directly. Highlights of the book include doing input/output programming using the Linux system calls and the C library, implementing data structures in assembly language and high performance assembly language programming. Early chapters of the book rely on using the debugger to observe program behavior. After a chapter on functions, the user is prepared to use printf and scanf from the C library to perform I/O. The chapter on data structures covers singly linked lists, doubly linked circular lists, hash tables and binary trees. Test programs are presented for all these data structures. There is a chapter on optimization techniques and 3 chapters on specific optimizations. One chapter covers how to efficiently count the 1 bits in an array with the most efficient version using the recently-introduced popcnt instruction. Another chapter covers using SSE instructions to create an efficient implementation of the Sobel filtering algorithm. The final high performance programming chapter discusses computing correlation between data in 2 arrays. There is an AVX implementation which achieves 20.5 GFLOPs on a single core of a Core i7 CPU. A companion web site, <http://www.rayseyfarth.com>, has a collection of PDF slides which instructors can use for in-

class presentations and source code for sample programs.

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Modern X86 Assembly Language Programming Introduction

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