

64 Bit

David A. Karp

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.

64-bit Assembly Programming for Linux Mark B, 2020-10-29 People say assembly, the machine language, is a very difficult programming language. With this book I want to show you that assembly is not that difficult at all. Assembly is different and doesn't work like modern high-level languages, but once you understand how to work with it, assembly becomes easy. This book provides a practical introduction to programming in assembly. Without tormenting ourselves through the theoretical basics, we start right away and look at assembly and machine commands using practical examples. We will highlight the stumbling blocks and challenges with lowlevel programming. For this we use modern 64-bit Intel architecture and Linux.

ARM 64-Bit Assembly Language Larry D Pyeatt, William Ughetta, 2019-11-14 ARM 64-Bit Assembly Language 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. This book will help readers understand representations of, and arithmetic operations on, integral and real numbers in any base, giving them a basic understanding of processor architectures, instruction sets, and more. This resource provides an ideal introduction to the principles of 64-bit ARM assembly programming for both the professional engineer and computer engineering student, as well as the dedicated hobbyist with a 64-bit ARM-based computer. Represents the first true 64-bit ARM textbook Covers advanced topics such as ?xed and ?oating point mathematics, optimization and ARM NEON Uses standard, free open-source tools rather than expensive proprietary tools Provides concepts that are illustrated and reinforced with a large number of tested and debugged assembly and C source listings

Itanium Architecture for Programmers James S. Evans, Gregory L. Trimper, 2003 Step-by-step guide to assembly language for the 64-bit Itanium processors, with extensive examples Details of Explicitly Parallel Instruction Computing (EPIC): Instruction set, addressing, register stack engine, predication, I/O, procedure calls, floating-point operations, and more Learn how to comprehend and optimize open source, Intel, and HP-UX compiler output Understand the full power of 64-bit Itanium EPIC processors Itanium(R) Architecture for Programmers is a comprehensive introduction to the breakthrough capabilities of the new 64-bit Itanium architecture. Using standard command-line tools and extensive examples, the authors illuminate the Itanium design within the broader context of contemporary computer architecture via a step-by-step investigation of Itanium assembly language. Coverage includes: The potential of Explicitly Parallel Instruction Computing (EPIC) Itanium instruction formats and addressing

modes Innovations such as the register stack engine (RSE) and extensive predication Procedure calls and procedure-calling mechanisms Floating-point operations I/O techniques, from simple debugging to the use of files Optimization of output from open source, Intel, and HP-UX compilers An essential resource for both computing professionals and students of architecture or assembly language, Itanium Architecture for Programmers includes extensive printed and Web-based references, plus many numeric, essay, and programming exercises for each chapter.

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.

Windows® 64-bit Assembly Language Programming Quick Start Robert Dunne,2018-07-31 This book is about programming the Intel(R) X86-X64 in assembly language using the free version of Microsoft(R) Visual Studio 17 software. The X86 implies the 16-bit legacy Intel(R) 8086 processor up through the 64-bit Intel(R) core i7 and even beyond.

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

Programming with 64-Bit ARM Assembly Language Stephen Smith,2020-05-01 Mastering ARM hardware architecture opens a world of programming for nearly all phones and tablets including the iPhone/iPad and most Android phones. It's also the heart of many single board

computers like the Raspberry Pi. Gain the skills required to dive into the fundamentals of the ARM hardware architecture with this book and start your own projects while you develop a working knowledge of assembly language for the ARM 64-bit processor. You'll review assembly language programming for the ARM Processor in 64-bit mode and write programs for a number of single board computers, including the Nvidia Jetson Nano and the Raspberry Pi (running 64-bit Linux). The book also discusses how to target assembly language programs for Apple iPhones and iPads along with 64-Bit ARM based Android phones and tablets. It covers all the tools you require, the basics of the ARM hardware architecture, all the groups of ARM 64-Bit Assembly instructions, and how data is stored in the computer's memory. In addition, interface apps to hardware such as the Raspberry Pi's GPIO ports. The book covers code optimization, as well as how to inter-operate with C and Python code. Readers will develop enough background to use the official ARM reference documentation for their own projects. With *Programming with 64-Bit ARM Assembly Language* as your guide you'll study how to read, reverse engineer and hack machine code, then be able to apply these new skills to study code examples and take control of both your ARM devices' hardware and software. What You'll Learn Make operating system calls from assembly language and include other software libraries in your projects Interface apps to hardware devices such as the Raspberry Pi GPIO ports Reverse engineer and hack code Use the official ARM reference documentation for your own projects Who This Book Is For Software developers who have already learned to program in a higher-level language like Python, Java, C#, or even C and now wish to learn Assembly programming.

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.

32/64-Bit 80x86 Assembly Language Architecture James Leiterman, 2005-08-10 The increasing complexity of programming environments provides a number of opportunities for assembly language programmers. *32/64-Bit 80x86 Assembly Language Architecture* attempts to break through that complexity by providing a step-by-step understanding of programming Intel and AMD 80x86 processors in assembly language. This book explains 32-bit and 64-bit 80x86 assembly language programming inclusive of the SIMD (single instruction multiple data) instruction supersets that bring the 80x86 processor into the realm of the supercomputer, gives insight into the FPU (floating-point unit) chip in every Pentium processor, and offers strategies for optimizing code.

32/64-Bit 80x86 Assembly Language Architecture James Leiterman, 2005-08-10 The increasing complexity of programming environments provides a number of opportunities for assembly language programmers. *32/64-Bit 80x86 Assembly Language Architecture* attempts to break through that complexity by providing a step-by-step understanding of programming Intel and AMD 80x86 processors in assembly language. This book explains 32-bit and 64-bit 80x86 assembly language programming inclusive of the SIMD (single instruction multiple data) instruction supersets that bring the 80x86 processor into the realm of the supercomputer, gives insight into the FPU (floating-point unit) chip in every Pentium processor, and offers strategies for optimizing code.

Introduction to 64 Bit Windows Assembly Programming Ray Seyfarth, 2014-10-06 This book introduces programmers to 64 bit Intel assembly language using the Microsoft Windows operating system. The book also discusses how to use the free integrated development environment, *ebe*, designed by the author specifically to meet the needs of assembly language programmers. *Ebe* is a C++ program which uses the Qt library to implement a GUI environment consisting of a source window, a data window, a register window, a floating point register window, a backtrace window, a console window, a terminal window, a project window and a pair of teaching 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. The Toy Box allows the user to enter variable definitions and expressions in either C++ or Fortran and it builds a program to evaluate the expressions. Then the user can inspect the format of each expression. The Bit Bucket allows the user to explore how the computer stores and manipulates integers and floating point numbers. Additional information about *ebe* can be found at <http://www.rayseyfarth.com>. 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. 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 Windows API functions 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.

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++.

1860 64-bit Microprocessor Hardware Reference Manual Intel Corporation, 1990

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.

1860 64-Bit Microprocessor Hardware Reference Intel Corporation Staff,1990-01-01

Introduction to 64 Bit Windows Assembly Language Programming Ray Seyfarth,2017-02-14 This book introduces programmers to 64 bit Intel assembly language using the Microsoft Windows operating system. The book also discusses how to use the free integrated development environment, ebe, designed by the author specifically to meet the needs of assembly language programmers.Ebe is a C++ program which uses the Qt library to implement a GUI environment consisting of a source window, a data window, a register window, a floating point register window, a backtrace window, a console window, a terminal window, a project window and a pair of teaching 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.The Toy Box allows the use to enter variable definitions and expressions in either C++ or Fortran and it builds a program to evaluate the expressions. Then the user can inspect the format of each expression.The Bit Bucket allows the user to explore how the computer stores and manipulates integers and floating point numbers.Additional information about ebe can be found at <http://www.rayseyfarth.com>. 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. 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 Windows API functions 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.

Windows 7 Annoyances David A. Karp, 2010-04-27 Windows 7 may be faster and more stable than Vista, but it's a far cry from problem-free. David A. Karp comes to the rescue with the latest in his popular Windows Annoyances series. This thorough guide gives you the tools you need to fix the troublesome parts of this operating system, plus the solutions, hacks, and timesaving tips to make the most of your PC. Streamline Windows Explorer, improve the Search tool, eliminate the Green Ribbon of Death, and tame User Account Control prompts Explore powerful Registry tips and tools, and use them to customize every aspect of Windows and solve its shortcomings Squeeze more performance from your hardware with solutions for your hard disk, laptop battery, CPU, printers, and more Stop crashes, deal with stubborn hardware and drivers, fix video playback issues, and troubleshoot Windows when it won't start Protect your stuff with permissions, encryption, and shadow copies Secure and speed up your wireless network, fix networking woes, make Bluetooth functional, and improve your Web experience Get nearly all of the goodies in 7 Ultimate, no matter which edition you have Blunt, honest, and awesome. --Aaron Junod, Manager, Integration Systems at Evolution Benefits This could be the best [money] you've ever spent. --Jon Jacobi, PC World To use Windows is to be annoyed -- and this book is the best way to solve any annoyance you come across. It's the most comprehensive and entertaining guide you can get for turning Windows into an operating system that's a pleasure to use. --Preston Gralla, author of Windows Vista in a Nutshell, and Computerworld contributing editor

Upgrading and Repairing PCs Scott Mueller, 2015-06-22 Access to 3 hours of troubleshooting videos as well as PDFs of previous editions are available through product registration—see instructions in back pages of your eBook. For more than 25 years, Upgrading and Repairing PCs has been the world's #1 guide to PC hardware: The single source for reliable information on how PCs work, troubleshooting and fixing problems, adding hardware, optimizing performance, and building new PCs. This 22nd edition offers beefed-up coverage of the newest hardware innovations and maintenance techniques, plus more than two hours of new video. Scott Mueller delivers practical answers about PC processors, mother-boards, buses, BIOSes, memory, SSD and HDD storage, video, audio, networks, Internet connectivity, power, and much more. You'll find the industry's best coverage of diagnostics, testing, and repair—plus cutting-edge discussions of improving PC performance via overclocking and other techniques. Mueller has taught thousands of professionals in person and millions more through his books and videos—nobody knows more about keeping PCs running perfectly. Whether you're a professional technician, a small business owner trying to save money, or a home PC enthusiast, this is the only PC hardware book you need! NEW IN THIS EDITION The newest processors, including Intel's latest Core i Haswell processors and AMD's Kaveri core processors. Everything you need to know about the latest GPU technology from NVIDIA and AMD, including developments in OpenGL, DirectX, and Mantle. New firmware innovations like the InSyde BIOS, Back to BIOS buttons, and all the updated settings available for the newest processors and chipsets. The latest in updated home networking standards, from blazing fast 802.11ac Wi-Fi to HomeGrid and G.hn powerline networking. Ever larger storage, thanks to new technologies like helium-filled hard disks, shingled magnetic recording, and Cfast and XQD for flash memory. Emerging interfaces such as mSATA, USB 3.1, and M.2 Updated coverage of building PCs from scratch—from choosing and assembling hardware through BIOS setup and troubleshooting

SAP Hardware Solutions Michael Missbach, Uwe M. Hoffmann, 2001 The goal of this text is to describe the technical design aspects of the IT infrastructure; it does not give the details of installing and customizing SAP software, nor business process reengineering. Using primarily HP products for the solution examples, the chapters guide the reader through the foundation of the systems from an IT perspective, reviews its business application and architecture and introduces the server systems, then describes data storage, high availability and recovery solutions, client PCs with front-end user interfaces, output management and printing solutions, network infrastructure and requirements, cabling designs, LANs and WANs,

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64 Bit Introduction

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