

Win32 System Programming Advanced Windows

Here is the perfect book for Windows developers who want to join the forces of Windows NT developers. Each chapter attacks a specific topic of Windows NT programming, explaining how it fits into the big picture and then detailing what programmers need to know to exploit the feature or mechanism in their program.

Furnishes complete documentation for Visual Basic programmers seeking to access the Win32 API within Visual Basic and explains to create powerful applications without requiring a background in Visual C++ or Win32 API programming. Original.
(Advanced)

Windows NT/2000 Native API Reference is absolutely unique. Currently, documentation on Windows NT's native APIs can only be found through access to the source code or occasionally Web sites where people have chosen to share bits of insight gained through reverse engineering. This book provides the first complete reference to the API functions native to Windows NT and covers the set of services that are offered by Windows NT to both kernel- and user-mode programs. Ideal for the intermediate and advanced level user- and kernel-mode developers of Windows systems, this books is

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devoted to the NT native API and consists of documentation of the 210 routines included in the API. Also included are all the functions added in Windows 2000.

Explaining how and why developers can combine various low-level system calls to accomplish high-end results, this book emphasizes low-level solutions using C and C++. The CD contains sample code so programmers can work with it online.

A demonstration of Python's basic technologies showcases the programming language's possibilities as a Windows development and administration tool. The popular open source KDE desktop environment for Unix was built with Qt, a C++ class library for writing GUI applications that run on Unix, Linux, Windows 95/98, Windows 2000, and Windows NT platforms. Qt emulates the look and feel of Motif, but is much easier to use. Best of all, after you have written an application with Qt, all you have to do is recompile it to have a version that works on Windows. Qt also emulates the look and feel of Windows, so your users get native-looking interfaces. Platform independence is not the only benefit. Qt is flexible and highly optimized. You'll find that you need to write very little, if any, platform-dependent code because Qt already has what you need. And Qt is free for open source and Linux development. Although programming with Qt is straightforward and feels natural once you get the

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hang of it, the learning curve can be steep. Qt comes with excellent reference documentation, but beginners often find the included tutorial is not enough to really get started with Qt. That's where *Programming with Qt* steps in. You'll learn how to program in Qt as the book guides you through the steps of writing a simple paint application. Exercises with fully worked out answers help you deepen your understanding of the topics. The book presents all of the GUI elements in Qt, along with advice about when and how to use them, so you can make full use of the toolkit. For seasoned Qt programmers, there's also lots of information on advanced 2D transformations, drag-and-drop, writing custom image file filters, networking with the new Qt Network Extension, XML processing, Unicode handling, and more. *Programming with Qt* helps you get the most out of this powerful, easy-to-use, cross-platform toolkit. It's been completely updated for Qt Version 3.0 and includes entirely new information on rich text, Unicode/double byte characters, internationalization, and network programming. "Look it up in Petzold" remains the last word on Windows development. In this .NET-ready Windows programming guide, the best-selling author shows you how to get the most out of Windows Forms—the next-generation Windows programming class library. You'll discover how to use C# to create dynamic user interfaces and graphical outputs for Windows

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applications. With dozens of examples of client applications to illustrate common techniques and plenty of no-nonsense advice on best programming practices, you'll be C# sharp in no time. Topics covered in this guide include: A tour of C# Windows Forms Essential structures An exercise in text output Lines, curves, and area fills Tapping into the keyboard Pages and transforms Taming the mouse Text and fonts The timer and time Images and bitmaps Buttons, labels, and scrolls Béziars and other splines Menus Paths, regions, and clipping Dialog boxes Brushes and pens Edit, list, and spin controls Font fun Toolbars and status bars Printing Tree view and List view Metafiles Clip, drag, and drop INCLUDED ON CD-ROM: * Sample source code for all the examples presented in the book A Note Regarding the CD or DVD The print version of this book ships with a CD or DVD. For those customers purchasing one of the digital formats in which this book is available, we are pleased to offer the CD/DVD content as a free download via O'Reilly Media's Digital Distribution services. To download this content, please visit O'Reilly's web site, search for the title of this book to find its catalog page, and click on the link below the cover image (Examples, Companion Content, or Practice Files). Note that while we provide as much of the media content as we are able via free download, we are sometimes limited by licensing restrictions. Please direct any

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questions or concerns to booktech@oreilly.com.

The Definitive Guide to Windows API Programming, Fully Updated for Windows 7, Windows Server 2008, and Windows Vista Windows System Programming, Fourth Edition, now contains extensive new coverage of 64-bit programming, parallelism, multicore systems, and many other crucial topics. Johnson Hart's robust code examples have been updated and streamlined throughout. They have been debugged and tested in both 32-bit and 64-bit versions, on single and multiprocessor systems, and under Windows 7, Vista, Server 2008, and Windows XP. To clarify program operation, sample programs are now illustrated with dozens of screenshots. Hart systematically covers Windows externals at the API level, presenting practical coverage of all the services Windows programmers need, and emphasizing how Windows functions actually behave and interact in real-world applications. Hart begins with features used in single-process applications and gradually progresses to more sophisticated functions and multithreaded environments. Topics covered include file systems, memory management, exceptions, processes, threads, synchronization, interprocess communication, Windows services, and security. New coverage in this edition includes Leveraging parallelism and maximizing performance in multicore systems Promoting source code portability and

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application interoperability across Windows, Linux, and UNIX Using 64-bit address spaces and ensuring 64-bit/32-bit portability Improving performance and scalability using threads, thread pools, and completion ports Techniques to improve program reliability and performance in all systems Windows performance-enhancing API features available starting with Windows Vista, such as slim reader/writer locks and condition variables A companion Web site, jnhartsoftware.com, contains all sample code, Visual Studio projects, additional examples, errata, reader comments, and Windows commentary and discussion.

Provides a definitive guide to terminology, techniques, and system information for individuals working in both Macintosh and Windows environments, explaining how to translate materials effectively from the one platform to the other.

Original. (All Users)

A systematic illustration of all aspects of Win32 multithreaded programming furnishes a clear explanation of the concepts of the programs and shows developers how to skillfully construct efficient and complex applications. Original. (Advanced).

Demonstrates key elements of the Win32 operating system and explains how to use Visual Basic to customize and design applications

Covers topics including .NET Framework and CLR fundamentals, .NET features, Web services, programming with GDI+, and interoperability, and provides a Visual Basic .NET overview.

Reviews Windows programming fundamentals.

The new edition of this popular title covers recent

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enhancements to Win32, including support for Windows NT 4.0. Here is a solid revision to a core programming title in a still-expanding area.

The world's most complete guide to Windows graphics programming! Win32 GDI and DirectDraw: Accurate, under the hood, and in depth Beyond the API: Internals, restrictions, performance, and real-life problems Complete: Pixel, lines, curves, filled area, bitmap, image processing, fonts, text, metafile, printing, and more Up to date: Windows 2000 and Windows 98 graphics enhancements CD-ROM: Exclusive and professional quality generic C++ classes, reusable functions, demonstration programs, kernel mode drivers, GDI exploration tools, and more! Hewlett-Packard Professional Books To deliver high-performance Windows applications, you need an in-depth understanding of the Win32 GDI and DirectDraw--but until now, it's been virtually impossible to discover what's going on "behind" Microsoft's API calls. This book rips away the veil, giving experienced Windows programmers all the information and techniques they need to maximize performance, efficiency, and reliability! You'll discover how to make the most of Microsoft's Windows graphics APIs--including the important new graphics capabilities built into Windows 2000. Coverage includes: Uncovering the Windows system architecture and graphics system internal data structure Building graphics API "spies" that show what's going on "under the hood" Detecting GDI resource leaks and other powerful troubleshooting techniques Expert techniques for working with the Win32 GDI and DirectDraw APIs Device context, coordinate space and transformation, pixels, lines, curves, and area fills Bitmaps, image processing, fonts, text, enhanced metafiles, printing, and more "Windows Graphics Programming" delivers extensive code, practical techniques, and unprecedented insight--plus an exclusive CD-ROM containing original system-

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level tools, kernel mode drivers, sample code, and generic C++ classes for Windows graphics programming without MFC. If you want to build Windows graphics applications that deliver breakthrough performance and reliability, you'll find this book indispensable.

Delve into programming the Windows operating system through the Windows API in with C++. Use the power of the Windows API to working with processes, threads, jobs, memory, I/O and more. The book covers current Windows 10 versions, allowing you to get the most of what Windows has to offer to developers in terms of productivity, performance and scalability.

Windows NT can be programmed with the same Win32 tools as Win95 and Win98 using the MFC. This book programs using the API directly using C++ and should be understandable to those with system programming experience from other platforms.

There is nothing like the power of the kernel in Windows - but how do you write kernel drivers to take advantage of that power? This book will show you how. The book describes software kernel drivers programming for Windows. These drivers don't deal with hardware, but rather with the system itself: processes, threads, modules, registry and more. Kernel code can be used for monitoring important events, preventing some from occurring if needed. Various filters can be written that can intercept calls that a driver may be interested in. Learn to build applications that leverage new Win32 networking capabilities. With this book, Readers will the strengths and weaknesses of Windows 95's new networking features, how to take advantage of Windows 95 capabilities at the client end, and strategies for

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building successful applications running on Windows and NT networks.

Take the next step toward Perl mastery with advanced concepts that make coding easier, maintenance simpler, and execution faster. Mastering Perl isn't a collection of clever tricks, but a way of thinking about Perl programming for solving debugging, configuration, and many other real-world problems you'll encounter as a working programmer. The third in O'Reilly's series of landmark Perl tutorials (after Learning Perl and Intermediate Perl), this fully updated edition pulls everything together and helps you bend Perl to your will. Explore advanced regular expressions features Avoid common problems when writing secure programs Profile and benchmark Perl programs to see where they need work Wrangle Perl code to make it more presentable and readable Understand how Perl keeps track of package variables Define subroutines on the fly Jury-rig modules to fix code without editing the original source Use bit operations and bit vectors to store large data efficiently Learn how to detect errors that Perl doesn't report Dive into logging, data persistence, and the magic of tied variables

Developing Windows NT Device Drivers: A Programmer's Handbook offers programmers a comprehensive and in-depth guide to building device drivers for Windows NT. Written by two experienced driver developers, Edward N. Dekker and Joseph M. Newcomer, this book provides detailed coverage of techniques, tools, methods, and pitfalls to help make the often complex and byzantine "black art" of driver

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development straightforward and accessible. This book is designed for anyone involved in the development of Windows NT Device Drivers, particularly those working on drivers for nonstandard devices that Microsoft has not specifically supported. Because Windows NT does not permit an application program to directly manipulate hardware, a customized kernel mode device driver must be created for these nonstandard devices. And since experience has clearly shown that superficial knowledge can be hazardous when developing device drivers, the authors have taken care to explore each relevant topic in depth. This book's coverage focuses on drivers for polled, programmed I/O, interrupt-driven, and DMA devices. The authors discuss the components of a kernel mode device driver for Windows NT, including background on the two primary bus interfaces used in today's computers: the ISA and PCI buses. Developers will learn the mechanics of compilation and linking, how the drivers register themselves with the system, experience-based techniques for debugging, and how to build robust, portable, multithread- and multiprocessor-safe device drivers that work as intended and won't crash the system. The authors also show how to call the Windows NT kernel for the many services required to support a device driver and demonstrate some specialized techniques, such as mapping device memory or kernel memory into user space. Thus developers will not only learn the specific mechanics of high-quality device driver development for Windows NT, but will gain a deeper understanding of the foundations of device driver design.

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“When you begin using multi-threading throughout an application, the importance of clean architecture and design is critical. . . . This places an emphasis on understanding not only the platform’s capabilities but also emerging best practices. Joe does a great job interspersing best practices alongside theory throughout his book.” – From the Foreword by Craig Mundie, Chief Research and Strategy Officer, Microsoft Corporation

Author Joe Duffy has risen to the challenge of explaining how to write software that takes full advantage of concurrency and hardware parallelism. In *Concurrent Programming on Windows*, he explains how to design, implement, and maintain large-scale concurrent programs, primarily using C# and C++ for Windows. Duffy aims to give application, system, and library developers the tools and techniques needed to write efficient, safe code for multicore processors. This is important not only for the kinds of problems where concurrency is inherent and easily exploitable—such as server applications, compute-intensive image manipulation, financial analysis, simulations, and AI algorithms—but also for problems that can be speeded up using parallelism but require more effort—such as math libraries, sort routines, report generation, XML manipulation, and stream processing algorithms. *Concurrent Programming on Windows* has four major sections: The first introduces concurrency at a high level, followed by a section that focuses on the fundamental platform features, inner workings, and API details. Next, there is a section that describes common patterns, best practices, algorithms, and data structures that emerge

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while writing concurrent software. The final section covers many of the common system-wide architectural and process concerns of concurrent programming. This is the only book you'll need in order to learn the best practices and common patterns for programming with concurrency on Windows and .NET.

This Book Is A Practical Guide To The Essential Features And Functions Of The Windows Api. Unlike Most Resources, It Focuses On The Core System Services - File Systems, Memory, Threads, Synchronization, Processes, Communication, And Security - Rather Than The More Commonly Featured Graphical User Interface (Gui) Functions. While The .Net Framework Has Gotten Most Of The Excitement The Last Few Years, There Are Still Many Developers Whose Main Responsibility Is Developing And Maintaining Windows Systems Apps. Numerous Practical, Well-Tested Application Programs-- Suitable For Both Personal And Server Systems-- Are Included Along With Performance Measurements On A Wide Variety Of Single And Multiprocessor Systems. In Addition To Winxp And Win2003, This Book Teaches How To Use The .Net Framework To Program The Windows System And Develop Applications. This Completely Updated Edition Also Introduces The Use Of Open Source Software.

Win32 System Programming A Windows 2000
Application Developer's Guide Addison-Wesley
Professional

This book shows experienced programmers, primarily those familiar with UNIX, how to write multi-tasked and distributed

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applications for the new 32-bit Windows operating systems, Windows NT and Windows 95. Distinguishing it from other Windows books that cover the graphical user interface elements of Windows, this book focuses on core operating system resources, such as memory, processes, files, communication, and security.

PLEASE PROVIDE DESCRIPTION

This is the eBook version of the printed book. If the print book includes a CD-ROM, this content is not included within the eBook version. Advanced Linux Programming is divided into two parts. The first covers generic UNIX system services, but with a particular eye towards Linux specific information. This portion of the book will be of use even to advanced programmers who have worked with other Linux systems since it will cover Linux specific details and differences. For programmers without UNIX experience, it will be even more valuable. The second section covers material that is entirely Linux specific. These are truly advanced topics, and are the techniques that the gurus use to build great applications.

While this book will focus mostly on the Application Programming Interface (API) provided by the Linux kernel and the C library, a preliminary introduction to the development tools available will allow all who purchase the book to make immediate use of Linux.

UNIX, UNIX LINUX & UNIX TCL/TK. Write software that makes the most effective use of the Linux system, including the kernel and core system libraries. The majority of both Unix and Linux code is still written at the system level, and this book helps you focus on everything above the kernel, where applications such as Apache, bash, cp, vim, Emacs, gcc, gdb, glibc, ls, mv, and X exist. Written primarily for engineers looking to program at the low level, this updated edition of Linux System Programming gives you an understanding of core internals that makes for better code, no

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matter where it appears in the stack. -- Provided by publisher. Contains new examples that show the latest method of programming specifically for Windows NT 4 and Windows 95. Covers the new Windows NT 4 and Windows 95 programming style and techniques.

“Look it up in Petzold” remains the decisive last word in answering questions about Windows development. And in PROGRAMMING WINDOWS, FIFTH EDITION, the esteemed Windows Pioneer Award winner revises his classic text with authoritative coverage of the latest versions of the Windows operating system—once again drilling down to the essential API heart of Win32 programming. Topics include: The basics—input, output, dialog boxes An introduction to Unicode Graphics—drawing, text and fonts, bitmaps and metafiles The kernel and the printer Sound and music Dynamic-link libraries Multitasking and multithreading The Multiple-Document Interface Programming for the Internet and intranets Packed as always with definitive examples, this newest Petzold delivers the ultimate sourcebook and tutorial for Windows programmers at all levels working with Microsoft Windows 95, Windows 98, or Microsoft Windows NT. No aspiring or experienced developer can afford to be without it. An electronic version of this book is available on the companion CD. For customers who purchase an ebook version of this title, instructions for downloading the CD files can be found in the ebook.

Tapadiya takes a straightforward, hands-on approach to explain everything readers need to know from development to deployment and maintenance for this platform--all from a developer's perspective. Using C# as the primary language, and with plenty of code examples throughout, this book is an excellent way to learn.

Develop real-world applications in Windows About This Book
Create diverse applications featuring the versatility of Small

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Windows C++ library Learn about object-oriented programming in Windows and how to develop a large object-oriented class library in C++ Understand how to tackle application-specific problems along with acquiring a deep understanding of the workings of Windows architecture Who This Book Is For This book is for application developers who want a head-first approach into Windows programming. It will teach you how to develop an object-oriented class library in C++ and enhanced applications in Windows. Basic knowledge of C++ and the object-oriented framework is assumed to get the most out of this book. What You Will Learn Develop advanced real-world applications in Windows Design and implement a graphical object-oriented class library in C++ Get to grips with the workings of the integral aspects of the Win32 API, such as mouse input, drawing, cut-and-paste, file handling, and drop files Identify general problems when developing graphical applications as well as specific problems regarding drawing, spreadsheet, and word processing applications Implement classes, functions, and macros of the object-oriented class library developed in the book and how we implement its functionality by calling functions and macros in the Win32 API In Detail It is critical that modern developers have the right tools to build practical, user-friendly, and efficient applications in order to compete in today's market. Through hands-on guidance, this book illustrates and demonstrates C++ best practices and the Small Windows object-oriented class library to ease your development of interactive Windows applications. Begin with a focus on high level application development using Small Windows. Learn how to build four real-world applications which focus on the general problems faced when developing graphical applications. Get essential troubleshooting guidance on drawing, spreadsheet, and word processing applications. Finally finish up with a deep dive into the

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workings of the Small Windows class library, which will give you all the insights you need to build your own object-oriented class library in C++. Style and approach This book takes a tutorial-style approach that will demonstrate the features of a C++ object-oriented library by developing interactive Windows applications.

The First In-Depth, Real-World, Insider's Guide to Powerful Windows Debugging For Windows developers, few tasks are more challenging than debugging—or more crucial. Reliable and realistic information about Windows debugging has always been scarce. Now, with over 15 years of experience two of Microsoft's system-level developers present a thorough and practical guide to Windows debugging ever written. Mario Hewardt and Daniel Pravat cover debugging throughout the entire application lifecycle and show how to make the most of the tools currently available—including Microsoft's powerful native debuggers and third-party solutions. To help you find real solutions fast, this book is organized around real-world debugging scenarios. Hewardt and Pravat use detailed code examples to illuminate the complex debugging challenges professional developers actually face. From core Windows operating system concepts to security, Windows® Vista™ and 64-bit debugging, they address emerging topics head-on—and nothing is ever oversimplified or glossed over!

The free book "Fundamentals of Computer Programming with C#" is a comprehensive computer

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programming tutorial that teaches programming, logical thinking, data structures and algorithms, problem solving and high quality code with lots of examples in C#. It starts with the first steps in programming and software development like variables, data types, conditional statements, loops and arrays and continues with other basic topics like methods, numeral systems, strings and string processing, exceptions, classes and objects. After the basics this fundamental programming book enters into more advanced programming topics like recursion, data structures (lists, trees, hash-tables and graphs), high-quality code, unit testing and refactoring, object-oriented principles (inheritance, abstraction, encapsulation and polymorphism) and their implementation the C# language. It also covers fundamental topics that each good developer should know like algorithm design, complexity of algorithms and problem solving. The book uses C# language and Visual Studio to illustrate the programming concepts and explains some C# / .NET specific technologies like lambda expressions, extension methods and LINQ. The book is written by a team of developers lead by Svetlin Nakov who has 20+ years practical software development experience. It teaches the major programming concepts and way of thinking needed to become a good software engineer and the C# language in the meantime. It is a great start for anyone who wants to become a

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skillful software engineer. The books does not teach technologies like databases, mobile and web development, but shows the true way to master the basics of programming regardless of the languages, technologies and tools. It is good for beginners and intermediate developers who want to put a solid base for a successful career in the software engineering industry. The book is accompanied by free video lessons, presentation slides and mind maps, as well as hundreds of exercises and live examples. Download the free C# programming book, videos, presentations and other resources from <http://introprogramming.info>. Title: Fundamentals of Computer Programming with C# (The Bulgarian C# Programming Book) ISBN: 9789544007737 ISBN-13: 978-954-400-773-7 (9789544007737) ISBN-10: 954-400-773-3 (9544007733) Author: Svetlin Nakov & Co. Pages: 1132 Language: English Published: Sofia, 2013 Publisher: Faber Publishing, Bulgaria Web site: <http://www.introprogramming.info> License: CC-Attribution-Share-Alike Tags: free, programming, book, computer programming, programming fundamentals, ebook, book programming, C#, CSharp, C# book, tutorial, C# tutorial; programming concepts, programming fundamentals, compiler, Visual Studio, .NET, .NET Framework, data types, variables, expressions, statements, console, conditional statements, control-flow logic, loops, arrays, numeral systems, methods,

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strings, text processing, StringBuilder, exceptions, exception handling, stack trace, streams, files, text files, linear data structures, list, linked list, stack, queue, tree, balanced tree, graph, depth-first search, DFS, breadth-first search, BFS, dictionaries, hash tables, associative arrays, sets, algorithms, sorting algorithm, searching algorithms, recursion, combinatorial algorithms, algorithm complexity, OOP, object-oriented programming, classes, objects, constructors, fields, properties, static members, abstraction, interfaces, encapsulation, inheritance, virtual methods, polymorphism, cohesion, coupling, enumerations, generics, namespaces, UML, design patterns, extension methods, anonymous types, lambda expressions, LINQ, code quality, high-quality code, high-quality classes, high-quality methods, code formatting, self-documenting code, code refactoring, problem solving, problem solving methodology, 9789544007737, 9544007733

Master the intricacies of application development with unmanaged C++ code—straight from the experts. Jeffrey Richter’s classic book is now fully revised for Windows XP, Windows Vista, and Windows Server 2008. You get in-depth, comprehensive guidance, advanced techniques, and extensive code samples to help you program Windows-based applications. Discover how to:
Architect and implement your applications for both 32-bit and 64-bit Windows Create and manipulate

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processes and jobs Schedule, manage, synchronize and destroy threads Perform asynchronous and synchronous device I/O operations with the I/O completion port Allocate memory using various techniques including virtual memory, memory-mapped files, and heaps Manipulate the default committed physical storage of thread stacks Build DLLs for delay-loading, API hooking, and process injection Using structured exception handling, Windows Error Recovery, and Application Restart services

With Win32 System Programming, you can capitalize on your knowledge of high-end operating systems such as UNIX, MVS, and VMS to learn Windows system programming quickly. Written from the perspective of an experienced programmer, the book presents the core operating system services of Win32, the common API for the Windows 95 and Windows NT operating systems. It explains Win32 functions clearly, with numerous comparisons to corresponding UNIX calls, and highlights features unique to Win32. Because most experienced programmers are already familiar with processes, virtual memory, and preemptive scheduling, the book spends little time introducing these concepts, but instead shows how they are implemented in Win32. This text is for programmers using systems services, and focuses on the management of core operating systems resources rather than the graphical user

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interface.

The key to accessing the power of every operating system is its application programming interface (API). Visual Basic can access only part of the Windows API without special help. To write the most powerful possible programs, VB programmers need to work with all of the API. The big problem for VB programmers in trying to do so is that all of the available documentation on the Windows API is written for C++ programmers. In other words, the directions for using the API is written in a language that VB programmers don't understand. With a writing style that combines technical competence, humor, and a bit of "attitude," Appleman proves once again in this long-awaited complement to his previous bestseller, *Visual Basic Programmer's Guide to the Win32 API*, that learning advanced technology can (and should) be fun.

With the release of Microsoft's new 32-bit version of Windows--Windows 95--the number of programmers using this interface will increase dramatically. This book shows how to maintain compatibility with Windows NT and explains how Win32 (the base of Windows 95) and other API sets add extended functionality. Simon also tells which APIs are NT specific and which will work on both NT and 95.

"If you are new to the Win32 API, but have programmed for other high-end operating systems such as UNIX or VMS, then *Win32 System*

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Programming is the book for you. HIGHLY RECOMMENDED." "--Christopher L.T. Brown, "Windows 2000 Magazine" A practical guide to the central features and functions of the Win32 API, Win32 System Programming, Second Edition, will get you up and running with Windows NT and Windows 2000. Unlike most Windows programming resources, this book focuses exclusively on the core system services--file system, memory, processes, communication, and security--rather than on the more commonly featured graphical user interface functions. Especially geared for those already familiar with UNIX or other high-end operating systems, Win32 System Programming, Second Edition, helps you to build on your knowledge base to learn Win32 features quickly and easily. This new edition has been updated and enhanced with new coverage of network programming, servers, NT services, thread performance, and synchronization. It also offers a preview of Win64, the new 64-bit API for Windows 2000. Beginning with an examination of the features required in a single-process application, the text gradually progresses to increasingly sophisticated functions relating to a multithreaded environment. You will find extensive coverage of such critical Win32 topics as: The Win32 file system Character I/O and Unicode The registry Structured exception handling Security services Memory management and DLLs Threads, process

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management, scheduling, and thread synchronization Interprocess communication, featuring pipes and mailslots Network programming with sockets NT services, including the service control handler, event logging, and debugging Asynchronous I/O Remote Procedure Calls Win64, covering architecture, programming models, data types, and legacy code migration Short, practical examples illustrate each topic, and are included on the accompanying CD-ROM and supporting Web site (<http://world.std.com/jmhart/w32.htm>). The appendixes compare Win32, UNIX, and the C library; and provide performance measurements and results. Win32 System Programming, Second Edition, will give you a solid grounding in the core operating system functions of the Windows environment, an understanding of Win64 for Windows 2000, and the know-how you need to put them to work. 0201703106B04062001

-Access Real mode from Protected mode; Protected mode from Real mode Apply OOP concepts to assembly language programs Interface assembly language programs with high-level languages Achieve direct hardware manipulation and memory access Explore the archite

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