

Virtual Serial Port Control

Jan Axelson

Serial Port Complete: The Developer's Guide, Second Edition Jan Axelson, 2007-12-01

When PCs and peripherals began showing up with USB ports in the late 1990s, many predicted that legacy serial (COM) ports would soon be obsolete. The predictions were wrong. While most standard peripherals now use USB, serial ports are the interface of choice for devices that require simple programming, long cables, operation in harsh environments, or basic networking capabilities. Serial ports are more versatile than ever due to developments such as USB virtual COM ports, the .NET SerialPort class, enhanced microcontroller USARTs, and new wireless interfaces. **Serial Port Complete Second Edition** is a completely revised and updated guide to programming and interfacing to COM ports, USB virtual COM ports, and serial ports in embedded systems. Author Jan Axelson shows how to:

- § Access COM ports using the SerialPort class in Microsoft's .NET Framework.
- § Program embedded systems for serial-port communications.
- § Design and program USB devices accessed as virtual COM ports.
- § Upgrade RS-232 designs to USB with no changes to host software or device firmware.
- § Design

circuits for electrically harsh environments. § Create serial networks of embedded systems and PCs. § Use serial ports in wireless links. Example code is provided for PCs and embedded systems in both Basic and C/C#. The author maintains a website with articles, program code, and other links of interest to developers of serial-port applications (janaxelson.com).

Virtual Serial Port Cookbook Joe Pardue, 2007 This is a cookbook for communicating between a PC and a Microcontroller using the FTDI FT232R USB UART IC, and has lots of software and hardware examples. The code is in C# and Visual Basic Express allowing you to build Graphical User Interfaces and add Serial Port functions to create communications programs. Part 1 - Serial Port via USB Made Almost Easy -- In the first section you will learn the basics of serial communications using a USB UART bridge. You will further learn to write a simple terminal program in C# and Visual Basic Express .NET. Part 2 - PC to Microcontroller Conversations -- In the second section you will build on what you have learned and get into more details about GUI programming, using the SerialPort class, and some useful software tools such as XML. You will bring it all together by building a Developer

Terminal, which will have most of the bells and whistles that you would want for communicating between a PC and a microcontroller. You will end this section with some neat hardware experiments.

Part 3 - The FTDI FT232R -- In the final section you will chuck the serial port paradigm and communicate directly with the FT232R. You will learn how to use the Smiley Micros port of the FTDI D2XX driver, you will do some more hardware experiments bit-banging the BBUSB pins, and finally you will build a software programmer for the FT232R.

Proceeding of International Conference on Intelligent Communication, Control and Devices Rajesh Singh, Sushabhan Choudhury, 2016-09-17 The book presents high-quality research papers presented at the first international conference, ICICCD 2016, organised by the Department of Electronics, Instrumentation and Control Engineering of University of Petroleum and Energy Studies, Dehradun on 2nd and 3rd April, 2016. The book is broadly divided into three sections: Intelligent Communication, Intelligent Control and Intelligent Devices. The areas covered under these sections are wireless communication and radio technologies, optical communication, communication hardware evolution,

machine-to-machine communication networks, routing techniques, network analytics, network applications and services, satellite and space communications, technologies for e-communication, wireless Ad-Hoc and sensor networks, communications and information security, signal processing for communications, communication software, microwave informatics, robotics and automation, optimization techniques and algorithms, intelligent transport, mechatronics system, guidance and navigation, algorithms, linear/non-linear control, home automation, sensors, smart cities, control systems, high performance computing, cognition control, adaptive control, distributed control, prediction models, hybrid control system, control applications, power system, manufacturing, agriculture cyber physical system, network control system, genetic control based, wearable devices, nano devices, MEMS, bio-inspired computing, embedded and real-time software, VLSI and embedded systems, FPGA, digital system and logic design, image and video processing, machine vision, medical imaging, and reconfigurable computing systems.

USB Complete: The Developer's Guide, Fifth Edition Jan Axelson,2015-03-01 Developers who

design and program USB devices have a new resource in the fifth edition of USB Complete: The Developer's Guide. This edition adds an introduction to USB 3.1 and SuperSpeedPlus bus, which offers a 2x increase in bus speed over USB 3.0's SuperSpeed. For designs that don't require USB 3.1's capabilities, the book also covers USB 2.0 technology and applications. USB Complete Fifth Edition bridges the gap between the technical specifications and the real world of design and programming. Author Jan Axelson distills the fundamentals of the protocols and guides developers in choosing device hardware, deciding whether to target a USB class driver or another host driver, and writing device firmware and host applications. Example code in Visual C# shows how to detect and access USB devices and how to program and communicate with vendor-defined devices that use the human-interface-device (HID) class driver and Microsoft's WinUSB driver. Also covered are how to use bus power, including new advanced power delivery capabilities, wireless communications for USB devices, and developing embedded hosts, including dual-role USB On-The-Go devices. Programmers and hardware designers can rely on USB Complete's Fifth Edition to help get projects up and running

quickly. Students and hobbyists will learn how to use the interface built into every PC. Instructors will find inspiration and guidance for class projects.

.NET 4 Wrox PDF Bundle Bill Evjen,Christian Nagel,Rod Stephens,Robert Vieira,Nick

Randolph,2010-09-17 The books included in this set are: 9780470502204 Professional ASP.NET 4: in C# and VB: Written by three highly recognized and regarded ASP.NET experts, this book provides comprehensive coverage on ASP.NET 4 with a unique approach featuring examples in both C# and VB, as is the incomparable coverage of core ASP.NET. After a fast-paced refresher on essentials such as server controls, the book delves into expert coverage of all the latest capabilities of ASP.NET 4.

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This book gets you quickly up to speed on what you can expect from Visual Studio 2010. Packed with helpful examples, this comprehensive guide explains examines the features of Visual Studio 2010, which allows you to create and manage programming projects for the Windows platform. It walks you through every facet of the Integrated Development Environment (IDE), from common tasks and functions to its powerful tools

9780470499832 Visual Basic 2010 Programmer's Reference: This reference guide provides you with a broad, solid understanding of essential Visual Basic 2010 topics and clearly explains how to use this powerful programming language to perform a variety of tasks. As a tutorial, the book describes the Visual Basic language and covers essential Visual Basic topics. The material presents categorized information regarding specific operations and reveals useful tips, tricks, and tidbits to help you make the most of the new Visual Basic 2010.

9780470477229 WPF Programmer's Reference: Windows Presentation Foundation with C# 2010 and .NET 4: Written by a leading expert on Microsoft graphics programming, this richly illustrated book provides an introduction to WPF development and explains fundamental WPF concepts. It is packed with helpful examples and

progresses through a range of topics that gradually increase in their complexity. 9780470257029

Professional SQL Server 2008 Programming: This expanded best-seller includes new coverage of SQL Server 2008's new datatypes, new indexing structures, manageability features, and advanced time-zone handling. As an added bonus, also includes Professional SQL Server 2005 Programmers for .NET 4 developers still working in a SQL Server 2005 setting.

Professional ASP.NET 4 in C# and VB Bill Evjen, Scott Hanselman, Devin Rader, 2010-06-25 This book introduces you to the features and capabilities that ASP.NET 4 offers, and explains the foundation that ASP.NET provides. It covers each major new feature included in ASP.NET 4 in detail. Retaining the unique C# and VB dual language coverage, this edition retains many great features from previous versions, including both printed and downloadable VB and C# code examples. Other expert coverage include IIS and the provider model, site navigation, design, debugging, modules and handlers, Silverlight, CSS, Ajax and the Ajax Control Toolkit, jQuery, and MVC.

OS X and iOS Kernel Programming Ole Henry Halvorsen, Douglas Clarke, 2012-01-29 OS X and

iOS Kernel Programming combines essential operating system and kernel architecture knowledge with a highly practical approach that will help you write effective kernel-level code. You'll learn fundamental concepts such as memory management and thread synchronization, as well as the I/O Kit framework. You'll also learn how to write your own kernel-level extensions, such as device drivers for USB and Thunderbolt devices, including networking, storage and audio drivers. OS X and iOS Kernel Programming provides an incisive and complete introduction to the XNU kernel, which runs iPhones, iPads, iPods, and Mac OS X servers and clients. Then, you'll expand your horizons to examine Mac OS X and iOS system architecture. Understanding Apple's operating systems will allow you to write efficient device drivers, such as those covered in the book, using I/O Kit. With OS X and iOS Kernel Programming, you'll:

- Discover classical kernel architecture topics such as memory management and thread synchronization
- Become well-versed in the intricacies of the kernel development process by applying kernel debugging and profiling tools
- Learn how to deploy your kernel-level projects and how to successfully package them
- Write code that interacts with hardware devices
- Examine easy to

understand example code that can also be used in your own projects Create network filters Whether you're a hobbyist, student, or professional engineer, turn to OS X and iOS Kernel Programming and find the knowledge you need to start developing

Emerging Digital Forensics Applications for Crime Detection, Prevention, and Security Chang-Tsun Li, 2013 The revolutionary way in which modern technologies have enabled us to exchange information with ease has led to the emergence of interdisciplinary research in digital forensics and investigations, which aims to combat the abuses of computer technologies. *Emerging Digital Forensics Applications for Crime Detection, Prevention, and Security* presents various digital crime and forensic disciplines that use electronic devices and software for crime prevention and detection. This book provides theoretical and empirical research articles and case studies for a broad range of academic readers as well as professionals, industry consultants, and practitioners involved in the use, design, and development of techniques related to digital forensics and investigation.

Complete Computer Hardware Only ,

Robotics and Rehabilitation Intelligence Jianhua Qian,Honghai Liu,Jiangtao Cao,Dalin

Zhou,2020-12-18 This 2-volume set constitutes the refereed proceedings of 1st International Conference on Robotics and Rehabilitation Intelligence, ICRRRI 2020, held in Fushun, China, in September 2020. The 56 full and 4 short papers were carefully reviewed and selected from 188 submissions. The papers are divided into the following topical sections. In the first volume: Rehabilitation robotics and safety; machine vision application; electric drive and power system fault diagnosis; robust stability and stabilization; intelligent method application; intelligent control and perception; smart remanufacturing and industrial intelligence; and intelligent control of integrated energy system. In the second volume: smart healthcare and intelligent information processing; human-robot interaction; multi-robot systems and control; robot design and control; robotic vision and machine intelligence; optimization method in monitoring; advanced process control in petrochemical process; and rehabilitation intelligence.

Proceedings of the Seventh International Workshop on Digital Forensics and Incident Analysis

(WDFIA 2012) Nathan Clarke, Theodore Tryfonas, Ronald Dodge, 2012 The field of digital forensics is rapidly evolving and continues to gain significance in both the law enforcement and the scientific community. Being intrinsically interdisciplinary, it draws upon a wide range of subject areas such as information & communication technologies, law, social sciences and business administration. With this in mind, the workshop on Digital Forensics and Incident Analysis (WDFIA) specifically addresses this multi-faceted aspect, with papers invited from the full spectrum of issues relating to digital forensics and incident analysis. This book represents the proceedings from the 2012 event, which was held in Crete, Greece. A total of 13 papers are included, spanning a range of topics including systems and network investigation, services and applications and supporting the forensic process. All of the papers were subject to double-blind peer review, with each being reviewed by at least two members of the international programme committee.

Smart Computing and Communication Meikang Qiu, 2017-01-11 This book constitutes the proceedings of the First International Conference on Smart Computing and Communication, SmartCom

2016, held in Shenzhen, China, in December 2016. The 59 papers presented in this volume were carefully reviewed and selected from 210 submissions. The conference focuses on both smart computing and communications fields and aims to collect recent academic work to improve the research and practical applications.

Linux Device Drivers Jonathan Corbet,Alessandro Rubini,Greg Kroah-Hartman,2005-02-07

Provides information on writing a driver in Linux, covering such topics as character devices, network interfaces, driver debugging, concurrency, and interrupts.

Service Oriented, Holonic and Multi-Agent Manufacturing Systems for Industry of the Future

Damien Trentesaux,Theodor Borangiu,Paulo Leitão,Jose-Fernando Jimenez,Jairo R. Montoya-Torres,2021-07-28 This book approaches its subject matter by promoting concepts, methods and solutions for the digital transformation of manufacturing through service orientation in holonic and agent-based control with distributed intelligence. The scientific theme of the book concerns “Manufacturing as a Service”, developed by virtualizing and encapsulating manufacturing resources,

activities and controls into cloud networked services in an open perspective that spans models from shop floor resource allocation to enterprise infrastructure sharing. The papers included in the application space have a profound human dedication and aim at solving societal needs serving the partnership of the future—people and industry in the era of Society 5.0. The book’s readership includes researchers and engineers working in manufacturing, supply chains and logistics areas who innovate, develop and use digital control solutions and students enrolled in Engineering and Service Science programs.

Real World Instrumentation with Python John M. Hughes, 2010-11-15 Learn how to develop your own applications to monitor or control instrumentation hardware. Whether you need to acquire data from a device or automate its functions, this practical book shows you how to use Python's rapid development capabilities to build interfaces that include everything from software to wiring. You get step-by-step instructions, clear examples, and hands-on tips for interfacing a PC to a variety of devices. Use the book's hardware survey to identify the interface type for your particular device, and

then follow detailed examples to develop an interface with Python and C. Organized by interface type, data processing activities, and user interface implementations, this book is for anyone who works with instrumentation, robotics, data acquisition, or process control. Understand how to define the scope of an application and determine the algorithms necessary, and why it's important Learn how to use industry-standard interfaces such as RS-232, RS-485, and GPIB Create low-level extension modules in C to interface Python with a variety of hardware and test instruments Explore the console, curses, TkInter, and wxPython for graphical and text-based user interfaces Use open source software tools and libraries to reduce costs and avoid implementing functionality from scratch

Official Gazette of the United States Patent and Trademark Office ,2002

Professional Microsoft Virtual Server 2005 Ben Armstrong,2007-03-31 Microsoft Virtual Server 2005 allows a single server to be divided into several virtual machines, each running its own environment and operating system, which can even be virtually networked together Written by a key member of Microsoft's Virtual Server product team, this guide shows programmers how they can use

these virtual machines to keep their development environment separate from their computing environment, test software on a variety of platforms from a single machine, and test networking applications. Packed with real-world examples, the book examines how to install Linux under Virtual Server, create VM libraries, tweak performances, troubleshoot installation glitches, and access the Virtual Server COM API. Offers a clear explanation of how to best understand virtual devices, networks, and storage systems and handle debugging in virtual machines.

Advanced Server Virtualization David Marshall, Wade A. Reynolds, Dave McCrory, 2006-05-17

Executives of IT organizations are compelled to quickly implement server virtualization solutions because of significant cost savings. However, most IT professionals tasked with deploying virtualization solutions have little or no experience with the technology. This creates a high demand for information on virtualization and how to properly implement it in a datacenter. *Advanced Server Virtualization: VMware® and Microsoft® Platforms in the Virtual Data Center* focuses on the core knowledge needed to evaluate, implement, and maintain an environment that is using server virtualization. This book

emphasizes the design, implementation and management of server virtualization from both a technical and a consultative point of view. It provides practical guides and examples, demonstrating how to properly size and evaluate virtualization technologies. This volume is not based upon theory, but instead on real world experience in the implementation and management of large scale projects and environments. Currently, there are few experts in this relatively new field, making this book a valuable resource. The book is divided into major sections making it both a step-by-step guide for learning and implementing server virtualization as well as a quick reference. The chapter organization focuses first on introducing concepts and background, and then provides real-world scenarios.

5th Kuala Lumpur International Conference on Biomedical Engineering 2011 Hua-Nong Ting, 2011-06-17 The Biomed 2011 brought together academicians and practitioners in engineering and medicine in this ever progressing field. This volume presents the proceedings of this international conference which was held in conjunction with the 8th Asian Pacific Conference on Medical and Biological Engineering (APCMBE 2011) on the 20th to the 23rd of June 2011 at Berjaya Times Square

Hotel, Kuala Lumpur. The topics covered in the conference proceedings include: Artificial organs, bioengineering education, bionanotechnology, biosignal processing, bioinformatics, biomaterials, biomechanics, biomedical imaging, biomedical instrumentation, BioMEMS, clinical engineering, prosthetics.

Industrial Communication Systems Bogdan M. Wilamowski, J. David Irwin, 2018-10-03 The Industrial Electronics Handbook, Second Edition, Industrial Communications Systems combines traditional and newer, more specialized knowledge that helps industrial electronics engineers develop practical solutions for the design and implementation of high-power applications. Embracing the broad technological scope of the field, this collection explores fundamental areas, including analog and digital circuits, electronics, electromagnetic machines, signal processing, and industrial control and communications systems. It also facilitates the use of intelligent systems—such as neural networks, fuzzy systems, and evolutionary methods—in terms of a hierarchical structure that makes factory control and supervision more efficient by addressing the needs of all production components.

Enhancing its value, this fully updated collection presents research and global trends as published in the IEEE Transactions on Industrial Electronics Journal, one of the largest and most respected publications in the field. Modern communication systems in factories use many different—and increasingly sophisticated—systems to send and receive information. Industrial Communication Systems spans the full gamut of concepts that engineers require to maintain a well-designed, reliable communications system that can ensure successful operation of any production process. Delving into the subject, this volume covers: Technical principles Application-specific areas Technologies Internet programming Outlook, including trends and expected challenges Other volumes in the set: Fundamentals of Industrial Electronics Power Electronics and Motor Drives Control and Mechatronics Intelligent Systems

The Enigmatic Realm of **Virtual Serial Port Control**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Virtual Serial Port Control** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of people who partake in its reading experience.

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