

USB: THE UNIVERSAL SERIAL BUS

Benjamin David Lunt

Usb The Universal Serial Bus Fysos Operating System Design Book 8

Michael Kifer, Scott A. Smolka



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Fysos Benjamin David Lunt,2016-05-01 This book is Volume 4 of the series FYSOS Operating System Design and will show the reader how to detect initialize and communicate with the Serial and Parallel Ports the PS2 ports and the mice and keyboards that may be attached to them as well as the Sound Blaster Audio device This book does not however discuss input devices attached via a USB port This type of device is described in Volume 8 of this series FYSOS The Universal Serial Bus All of this is done without any outside help such as operating system calls or the help of the BIOS The reader will learn how to communicate with the hardware directly reading and writing to the system bus to achieve these tasks The companion CD ROM contains complete source code of each example within the book showing how to accomplish these tasks This book and its companion series of books does not expect you to build the next great wonder of the computer world It simply will help you with your interest in controlling the computer s hardware from the point the BIOS releases execution to your boot code to the point of a fully working Graphical User Interface It is not required that you know much about operating system design though a good knowledge of C Programming Language and a moderate knowledge of an Intel r AMD r x86 computer s hardware is expected to use this book

USB Benjamin Lunt,2018-04-20 Have you ever wondered how to use the USB hardware to send and receive data from an attached device Wondered how to detect and initialize the controller retrieve the device s descriptors configure the device and then communicate with it to send or retrieve its data This book explains the ins and outs of the four major controllers starting with the UHCI OHCI EHCI and then the new Super Speed xHCI Controller It explains in detail how to communicate with the various devices such as HID mice and keyboards mass storage devices including UASP devices printers and other USB devices If you are interested in working with bare hardware to communicate with the USB with no operating system to get in the way you don t need to look any further This book does not need to be on the shelf every USB enthusiast it needs to be right on the desk Third Edition 20180420 **Fysos** Benjamin David

Lunt,2013-10-12 This book is Volume 1 of the series FYSOS Operating System Design and will take the reader from the point the computer boots up through the boot code through the file system loader and then to the kernel It explains in detail each step of what it takes to create a minimum working multi threading operating system Includes chapters on how to retrieve information from the BIOS find partitions on the media move to 32 bit protected mode creating a memory manager a task scheduler and other necessities of operating system design The available CD ROM upon request contains complete source code of this minimal operating system and many utilities for use in your development This book also includes suggestions examples and other source code to help you build your operating system This book and its continued series of books does not expect you to build the next great wonder of the computer world It simply will help you with your interest in controlling the computer s hardware from the point the BIOS releases execution to your boot code to the point of a fully working Graphical User Interface It is not required that you know much about operating system design though a strong knowledge of x86

Assembly Language programming and a moderate knowledge of an Intel or AMD or x86 computer's hardware is expected to use this book

USB System Architecture Don Anderson, MindShare, Inc, 1997 This series of books is truly an important part of my library They are consistently accurate I would recommend them to anyone doing hardware design or support as well as to any developers who write low level system code Paul Tomlinson Windows Developer's Journal Universal Serial Bus System Architecture provides an in depth discussion of USB and is based on the 1.0 version of the Universal Serial Bus specification It focuses on the USB protocol signaling environment and electrical specifications along with the hardware software interaction required to configure and access USB devices Although this book does not focus on writing USB device drivers it does contain useful background information that aids in understanding the USB software environment Key topics include differential signaling environment device configuration suspend resume operations device descriptors device requests commands transfer mechanisms USB transaction protocols bus powered devices self powered devices host controller designs UHC and OHC error detection and handling device class definitions If you design or test hardware or software that involves USB Universal Serial Bus System Architecture is an essential time saving tool The PC System Architecture Series is a crisply written and comprehensive set of guides to the most important PC hardware standards Each title is designed to illustrate the relationship between the software and hardware and explains thoroughly the architecture features and operations of systems built using one particular type of chip or hardware specification MindShare Inc is one of the leading technical training companies in the computer industry providing innovative courses for dozens of companies including Intel IBM and Compaq Don Anderson passes on his wealth of experience in digital electronics and computer design by training engineers programmers and technicians for MindShare 0201461374B04062001

USB Design by Example John Hyde, 2001 This unique guide goes beyond all the USB specification overviews to provide designers with the expert knowledge and skills they need to design and implement USB I/O devices

USB Complete Jan Axelson, 1999 Now in its third edition this developer's guide to the Universal Serial Bus USB interface covers all aspects of project development including device programming and host application software This book shows how to transform the information in the USB 3.0 specifications into functioning devices and application software that communicates with the devices To help build a foundation for design decisions developers are guided in selecting device controller hardware Developers will also learn the benefits of the USB interface its limitations and how certain design choices made at the beginning of the project can reduce development time Recent developments in host and device hardware more detail on the standard USB classes application examples using Microsoft's .NET Framework and information on developing dual role devices using USB On The Go is provided in detail

Introduction to Operating System Design and Implementation Michael Kifer, Scott A. Smolka, 2007 Annotation This book is an introduction to the design and implementation of operating systems using OSP 2 the next generation of the highly popular OSP courseware for undergraduate operating system courses Coverage details process and thread management

memory resource and I/O device management and interprocess communication The book allows students to practice these skills in a realistic operating systems programming environment An Instructors Manual details how to use the OSP Project Generator and sample assignments Even in one semester students can learn a host of issues in operating system design

Universal Serial Bus System Architecture Don Anderson, Dave Dzatko, MindShare, Inc, 2001 CD ROM contains USB 2.0 overview **Operating System Design: The Xinu approach** Douglas Comer, 1984 1 Xinu Computer operating system

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

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