

USB EMBEDDED HOSTS

Access
USB devices
from your
embedded
systems

JAN AXELSON

**THE
DEVELOPER'S
GUIDE**

author of **USB COMPLETE**

Usb Embedded Hosts The Developer S Guide Jan Axelson

Rodolfo Giometti



Usb Embedded Hosts The Developer S Guide Jan Axelson:

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

USB Embedded Hosts Jan Axelson, 2011-11-01 Developers who want to access USB devices from their embedded systems will find a helpful resource in USB Embedded Hosts The Developer s Guide This new book from the author of USB Complete shows how small systems can take advantage of the same wealth of USB devices available to conventional PCs The book begins with a review of USB host communication protocols Readers then learn which USB host requirements are relaxed for embedded systems and what new requirements some embedded systems must meet To help in selecting a development platform the book explores available hardware and software for USB host communications in small systems The heart of the book focuses on communicating with USB devices The topics with example code include USB drives keyboards virtual serial ports network bridges mics speakers video cameras and printers plus devices that don t fit defined USB classes Also discussed are systems that support both USB host and device functions The example code is written for the BeagleBoard xM open development board using a distribution of Linux targeted to small systems Also covered is how to use Linux commands and utilities to learn about monitor and debug communications with USB devices

Unboxing Android USB Rajaram Regupathy, 2014-05-17 Unboxing Android USB focuses on apps that use USB This book covers everything starting from simple tasks like managing media with USB to complex tasks like Android ADB and developing application which exploit the potential of USB framework With use cases that help developers build real world apps in real time utilizing the advanced features of USB framework Unboxing Android USB tries to cover every single aspect of the app development cycle in totality Unboxing Android USB helps you learn newly introduced android open accessory protocol with unique examples such as using USB Keyboard with Android device without

USB host mode enabled and switching from MTP to MSC The book is organized based on the USB functions with each chapter explaining different USB classes available in Android The functionalities are explained by starting from the USB specification followed by block diagrams that explain different blocks available in that USB class followed by sequence diagram that elucidates flow of control and data Each chapter has a unique sample Android application that uses the particular USB function

Android Hacker's Handbook Joshua J. Drake,Zach Lanier,Collin Mulliner,Pau Oliva Fora,Stephen A. Ridley,Georg Wicherski,2014-03-26 The first comprehensive guide to discovering and preventing attacks on the Android OS As the Android operating system continues to increase its share of the smartphone market smartphone hacking remains a growing threat Written by experts who rank among the world s foremost Android security researchers this book presents vulnerability discovery analysis and exploitation tools for the good guys Following a detailed explanation of how the Android OS works and its overall security architecture the authors examine how vulnerabilities can be discovered and exploits developed for various system components preparing you to defend against them If you are a mobile device administrator security researcher Android app developer or consultant responsible for evaluating Android security you will find this guide is essential to your toolbox A crack team of leading Android security researchers explain Android security risks security design and architecture rooting fuzz testing and vulnerability analysis Covers Android application building blocks and security as well as debugging and auditing Android apps Prepares mobile device administrators security researchers Android app developers and security consultants to defend Android systems against attack Android Hacker s Handbook is the first comprehensive resource for IT professionals charged with smartphone security

Guide to the Library of Congress Classification Lois Mai Chan,Sheila S. Intner,Jean Weihs,2016-09-26 Like earlier editions this thoroughly updated sixth edition of the classic textbook provides readers with a basic understanding of the Library of Congress Classification system and its applications The Library of Congress Classification system is used in academic legal medical and research libraries throughout North America as well as worldwide accordingly catalogers and librarians in these settings all need to be able to use it The established gold standard text for Library of Congress Classification LCC the sixth edition of Guide to the Library of Congress Classification updates and complements the classic textbook s coverage of cataloging in academic and research libraries Clear and easy to understand the text describes the reasoning behind assigning subject headings and subheadings including use of tables explains the principles structure and format of LCC details notation tables assigning class numbers and individual classes and covers classification of special types of library materials The last chapter of this perennially useful resource addresses the potential role of classification in libraries of the future

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 then 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 *Library Journal* ,2006 *Encyclopedia of Computer Science and Technology* Harry Henderson,2009 Presents an illustrated A Z encyclopedia containing approximately 600 entries on computer and technology related topics *USB Mass Storage* Jan Axelson,2006 This developer s guide for designers and programmers of mass storage devices that use the Universal Serial Bus USB interface provides developers with information on how to choose storage media interface the media to a microcontroller or other CPU and write device firmware to access the media and perform USB communications Comparisons of popular storage media options to help users choose a media type for a project are included and the types described cover hard drives and flash memory cards such as the MultiMediaCard MMC Secure Digital SD card and CompactFlash card Helpful tips on developing an embedded host that can access USB mass storage devices are also covered *Quick Boot* Pete Dice,2017 Quick Boot is designed to give developers a background in the basic architecture and details of a typical boot sequence More specifically this book describes the basic initialization sequence that allows developers the freedom to boot an OS without a fully featured system BIOS Various specifications provide the basics of both the code bases and the standards This book also provides insights into optimization techniques for more advanced developers With proper background information the required specifications on hand and diligence many developers can create quality boot solutions using this text Pete Dice is Engineering Director of Verifone where he manages OS Engineering teams in Dublin Ireland and Riga Latvia Dice successfully launched Intel R Quark TM Intel s first generation SoC as well as invented the Intel R Galileo TM development board and developed a freemium SW strategy to scale Intel IoT gateway features across product lines He is also credited with architecting the Moon Island software stack and business model **The Firmware Handbook** Jack Ganssle,2004-04-16 The Firmware Handbook provides a comprehensive reference for firmware developers looking to increase their skills and productivity It addresses each critical step of the development process in detail including how to optimize hardware design for better firmware Topics covered include real time issues interrupts and ISRs memory

management including Flash memory handling both digital and analog peripherals communications interfacing math subroutines error handling design tools and troubleshooting and debugging This book is not for the beginner but rather is an in depth comprehensive one volume reference that addresses all the major issues in firmware design and development including the pertinent hardware issues *Embedded Software* Colin Walls,2005-09-02 Embedded software needs have grown exponentially over the past quarter century In 1975 writing 10 000 lines of assembly code was a considered a huge undertaking Today a cell phone can contain five million lines of C or C Embedded software developers must have a strong grasp of many complex topics in order to make faster more efficient and more powerful microprocessors to meet the public s growing demand This practical guide written by industry pioneer Colin Walls helps embedded design engineers to rise to that challenge The author offers expertise and insights from his quarter century of design experience covering a plethora of major concerns in an easy to reference essay format that provides the reader with detailed tips and techniques and rigorous explanations of technologies Contributions from other well known designers in the embedded systems field offer additional seasoned perspectives on everything from exotic memories to USB software This one book has an amazing breadth of coverage undertaking all the key subjects embedded engineers need to understand in order to succeed including Design and Development Programming Languages including C C and UML Real Time Operating Systems Considerations Networking Programmable Logic and much more For those in the field who are looking to broaden their professional skill sets in order to advance as well as those newbies just entering the field of embedded systems design this comprehensive new reference is a must have The accompanying CD ROM contains source code for the many real world examples in the text to save readers from needless re typing Also included are PowerPoint slides to create training seminars or classes from the text and various product related spec sheets Provides an amazing breadth of coverage by undertaking all the key subjects embedded engineers need to understand Author is a true pioneer in the field with almost 30 years experience Accompanying CD ROM includes training materials and source code for the many real world examples in the text

GNU/Linux Rapid Embedded Programming Rodolfo Giometti,2017-03-29 An annotated guide to program and develop GNU Linux Embedded systems quickly Key Features Rapidly design and build powerful prototypes for GNU Linux Embedded systems Become familiar with the workings of GNU Linux Embedded systems and how to manage its peripherals Write monitor and configure applications quickly and effectively manage an external micro controller and use it as co processor for real time tasks Book DescriptionEmbedded computers have become very complex in the last few years and developers need to easily manage them by focusing on how to solve a problem without wasting time in finding supported peripherals or learning how to manage them The main challenge with experienced embedded programmers and engineers is really how long it takes to turn an idea into reality and we show you exactly how to do it This book shows how to interact with external environments through specific peripherals used in the industry We will use the latest Linux kernel release 4 4 x and Debian Ubuntu

distributions with embedded distributions like OpenWrt and Yocto The book will present popular boards in the industry that are user friendly to base the rest of the projects on BeagleBone Black SAMA5D3 Xplained Wandboard and system on chip manufacturers Readers will be able to take their first steps in programming the embedded platforms using C Bash and Python PHP languages in order to get access to the external peripherals More about using and programming device driver and accessing the peripherals will be covered to lay a strong foundation The readers will learn how to read write data from to the external environment by using both C programs or a scripting language Bash PHP Python and how to configure a device driver for a specific hardware After finishing this book the readers will be able to gain a good knowledge level and understanding of writing configuring and managing drivers controlling and monitoring applications with the help of efficient quick programming and will be able to apply these skills into real world projects What you will learn Use embedded systems to implement your projects Access and manage peripherals for embedded systems Program embedded systems using languages such as C Python Bash and PHP Use a complete distribution such as Debian or Ubuntu or an embedded one such as OpenWrt or Yocto Harness device driver capabilities to optimize device communications Access data through several kinds of devices such as GPIO s serial ports PWM ADC Ethernet WiFi audio video I2C SPI One Wire USB and CAN Who this book is for This book targets Embedded System developers and GNU Linux programmers who would like to program Embedded Systems and perform Embedded development The book focuses on quick and efficient prototype building Some experience with hardware and Embedded Systems is assumed as is having done some previous work on GNU Linux systems Knowledge of scripting on GNU Linux is expected as well

Quick Boot: a Guide for Embedded Firmware Developers Pete Dice, 2013-05-21 Quick Boot is for those developers not familiar with Intel R Architecture in general who want to develop their own firmware to meet educational or commercial needs Booting should be easy While the open source community provides some raw code and materials this book provides the guidance and explanations on how to create craft and hone them into a finished product The majority of the technical ground in the system firmware space is not taught in college and is normally learned only through many years of on the job experience The goal is to make it easy for a designer new to Intel architecture to understand and optimize the firmware for their design and ease the learning curve to develop and debug the code that gets system ready for the operating system

FPGA-Based Embedded System Developer's Guide A. Arockia Basil Raj, 2018-04-09 The book covers various aspects of VHDL programming and FPGA interfacing with examples and sample codes giving an overview of VLSI technology digital circuits design with VHDL programming components functions and procedures and arithmetic designs followed by coverage of the core of external I O programming algorithmic state machine based system design and real world interfacing examples Focus on real world applications and peripherals interfacing for different applications like data acquisition control communication display computing instrumentation digital signal processing and top module design Aims to be a quick reference guide to design digital architecture in the FPGA and

develop system with RTC data transmission protocols

STM32 Developer's Manual for Beginners Joseph S Coleman, 2025-08-06 Have you ever looked at a microcontroller board and thought Where do I even begin Do terms like GPIO DMA or NVIC sound like cryptic codes from another world Then let s talk because you re not alone and this book was written exactly for you What if I told you that mastering STM32 microcontrollers isn t reserved for hardware wizards or PhD engineers What if you could go from zero experience to confidently building embedded projects with a clear roadmap real guidance and a voice that speaks your language That s exactly what STM32 Developer s Manual for Beginners A Comprehensive Guide for Embedded Developers by Joseph S Coleman delivers This isn t your typical dry technical reference It s a conversation between you and someone who knows what it s like to start at square one someone who s taken the hard parts of embedded development and made them digestible practical and even fun You ll start with the why why STM32 why Cortex M why embedded systems even matter Then you ll dive deep into the how how to set up your development environment how to blink that first LED how to understand the core architecture of the STM32 family and how to build real world applications But wait

Starting Embedded Linux Development on an Arm Architecture Joe Nicholson, 2016-02 This book provides a unified coordinated path for embedded developers starting out in embedded Linux programming It takes a tutorial style approach and is unique in using the DS 5 Integrated Development Environment IDE matched with ARM s architecture to create a complete guide from installation to developing simple applications Through clear concise and accessible explanation and examples this book kick starts embedded Linux development in the most practical way possible With this book you will learn What embedded Linux can do for you and how to achieve particular development goals How to set up and install the development environment The very basics of embedded Linux starting with toggling I O pins How to use the Linux command line to perform basic tasks How to debug code Profiling and performance tuning How to use TCP IP and USB interfaces in Linux

Cracking The Code Programming For Embedded System(WITH CD) Dreamtech Software Team, 2002-07 Market_Desc Cracking the Code titles are geared for experienced developers Readers should be skilled in Java or C Special Features This code intensive guide provides an in depth analysis of the inner workings of embedded software development for a variety of embedded operating systems including LINUX NT and Palm OS New Series Cracking the Code books provide a look at the code behind commercial quality applications These code heavy titles are exactly what developers are looking for as programmers learn best by examining code Includes fully functioning commercial quality embedded applications that readers tear apart to see how it works with source code in C and Java Includes coverage of embedded development for embedded databases Voice over IP security systems and even Global Positioning Systems GPS Every project comes complete with a detailed Flow Diagram design specifications and line by line explanation of the code By 2003 400 million Internet appliances will be in use and that by 2010 all home PCs will be replaced by embedded system based devices DataQuest Embedded Linux projects are expected to triple in the next year Evans Data About The Book

Presents a variety of complete embedded applications with design specifications flow diagrams and source code with line by line explanation Includes discussion of the challenges of embedded development such as timing processor clocks and virtual environment development The target platforms for embedded software are covered microcontrollers 16 bit and 32 bit as well as Digital Signal processors After discussing the basic architecture of these processors the specifics of architecture are covered with special reference to 8051 ADSP 2181 and ARM processors An overview of the Operating systems embedded real time and mobile Operating Systems will be given with discussion on APIs for development of embedded software The function calls in C and Java will be illustrated with examples Line by line detailed analysis of the source code behind cutting edge embedded applications including GPS security systems networked information appliances cellular phones embedded databases and wireless network devices Applications built on a variety of popular embedded operating systems including NT LINUX and Java J2ME

Embedded Software Development for the Internet of Things Klaus Elk, 2016-08-17 Details can be found on the web when you know what to look for The aim of this book is to help you understand the technologies behind the devices used in the Internet Of Things This is done with a mixture of theory examples and war stories This book may be read by senior students but it is more likely to be read by programmers and developers who have done some programming of PC s in Windows or Linux and are now faced with developing devices for the Internet Of Things Basic programming skills are thus assumed whereas no prior knowledge on TCP IP and Digital Signal Processing is needed Based on many years of experience as developer university teacher and manager the author s personal view on best practices in the embedded world is offered Part I introduces the main features of Embedded Operating Systems and modern highly integrated CPU s and thus builds the foundation for part II Part II on Internet Protocols and Digital Filters is the main textbook It provides a lot of facts backed up by examples The many network cases are illustrated with the help of WireShark Captures The chapter on digital filters is focused on making the reader understand the basics without getting lost in formulas Part III describes the authors experience with best practices when working with embedded networking The author s experience as a developer combined with his overview as manager results in a pragmatic and highly usable set of guidelines One of the strongest features of this book is the many figures They make the book inviting and helps the reader remember the knowledge given

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