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Mastering Go - Mihalis Tsoukalos 2019-08-29
Publisher's Note: This edition from 2019 is outdated and is not compatible with the latest version of Go. A new third edition, updated for 2021 and featuring the latest in Go programming, has now been published. Key Features • Second edition of the bestselling guide to advanced Go programming, expanded to cover machine learning, more Go packages and a range of modern development techniques • Completes the Go developer's education with real-world guides to building high-performance production systems • Packed with practical examples and patterns to apply to your own development work • Clearly explains Go nuances and features to remove the frustration from Go development Book Description Often referred to (incorrectly) as Golang, Go is the high-performance systems language of the future. Mastering Go, Second Edition helps you become a productive expert Go programmer, building and improving on the groundbreaking first edition. Mastering Go, Second Edition shows how to put Go to work on real production systems. For programmers who already know the Go language basics, this book provides examples, patterns, and clear explanations to help you deeply understand Go's capabilities and apply them in your programming work. The book covers the nuances of Go, with in-depth guides on types and structures, packages, concurrency, network programming, compiler design, optimization, and more. Each chapter ends with exercises and resources to fully embed your new knowledge. This second edition includes a completely new chapter on machine learning in

Go, guiding you from the foundation statistics techniques through simple regression and clustering to classification, neural networks, and anomaly detection. Other chapters are expanded to cover using Go with Docker and Kubernetes, Git, WebAssembly, JSON, and more. If you take the Go programming language seriously, the second edition of this book is an essential guide on expert techniques. What you will learn • Clear guidance on using Go for production systems • Detailed explanations of how Go internals work, the design choices behind the language, and how to optimize your Go code • A full guide to all Go data types, composite types, and data structures • Master packages, reflection, and interfaces for effective Go programming • Build high-performance systems networking code, including server and client-side applications • Interface with other systems using WebAssembly, JSON, and gRPC • Write reliable, high-performance concurrent code • Build machine learning systems in Go, from simple statistical regression to complex neural networks Who this book is for Mastering Go, Second Edition is for Go programmers who already know the language basics, and want to become expert Go practitioners. Table of Contents • Go and the Operating System • Understanding Go Internals • Working with Basic Go Data Types • The Uses of Composite Types • How to Enhance Go Code with Data Structures • What You Might Not Know About Go Packages and functions • Reflection and Interfaces for All Seasons • Telling a Unix System What to Do • Concurrency in Go: Goroutines, Channels, and Pipelines •

Concurrency in Go: Advanced Topics • Code Testing, Optimization, and Profiling • The Foundations of Network Programming in Go • Network Programming: Building Your Own Servers and Clients • Machine Learning in Go Review "Mastering Go - Second Edition is a must-read for developers wanting to expand their knowledge of the language or wanting to pick it up from scratch" -- Alex Ellis - Founder of OpenFaaS Ltd, CNCF Ambassador

Implementing an IBM High-Performance Computing Solution on IBM POWER8 - Dino Quintero 2015-09-15

This IBM® Redbooks® publication documents and addresses topics to provide step-by-step programming concepts to tune the applications to use IBM POWER8® hardware architecture with the technical computing software stack. This publication explores, tests, and documents how to implement an IBM high-performance computing (HPC) solution on POWER8 by using IBM technical innovations to help solve challenging scientific, technical, and business problems. This book demonstrates and documents that the combination of IBM HPC hardware and software solutions delivers significant value to technical computing clients in need of cost-effective, highly scalable, and robust solutions. This book targets technical professionals (consultants, technical support staff, IT Architects, and IT Specialists) who are responsible for delivering cost-effective HPC solutions that help uncover insights among clients' data so that they can act to optimize business results, product development, and scientific discoveries.

FreeBSD Handbook - FreeBSD Documentation Project 2000

The FreeBSD Handbook is a comprehensive FreeBSD tutorial and reference. It covers installation, day-to-day use of FreeBSD, and much more, such as the Ports collection, creating a custom kernel, security topics, the X Window System, how to use FreeBSD's Linux binary compatibility, and how to upgrade your system from source using the 'make world' command, to name a few.

New Frontiers in Fields and Strings - Joseph Polchinski 2016-11-28

This volume is a compilation of lectures delivered at the TASI 2015 summer school,

"New Frontiers in Fields and Strings", held at the University of Colorado Boulder in June 2015. The school focused on topics in theoretical physics of interest to contemporary researchers in quantum field theory and string theory. The lectures are accessible to graduate students in the initial stages of their research careers.

Supercomputing Frontiers - Rio Yokota 2018-03-20

It constitutes the refereed proceedings of the 4th Asian Supercomputing Conference, SCFA 2018, held in Singapore in March 2018.

Supercomputing Frontiers will be rebranded as Supercomputing Frontiers Asia (SCFA), which serves as the technical programme for SCA18. The technical programme for SCA18 consists of four tracks: Application, Algorithms & Libraries Programming System Software Architecture, Network/Communications & Management Data, Storage & Visualisation The 20 papers presented in this volume were carefully reviewed and selected from 60 submissions.

Mastering Unix Shell Scripting - Randal K. Michael 2003-02-06

Provides readers with end-to-end shell scripts that can be used to automate repetitive tasks and solve real-world system administration problems Targets the specific command structure for four popular UNIX systems: Solaris, Linux, AIX, and HP-UX Illustrates dozens of example tasks, presenting the proper command syntax and analyzing the performance gain or loss using various control structure techniques Web site includes all the shell scripts used in the book

Hacking the Xbox - Andrew Huang 2003

Provides step-by-step instructions on basic hacking techniques and reverse engineering skills along with information on Xbox security, hardware, and software.

IBM Power Systems SR-IOV: Technical Overview and Introduction - Scott Vetter 2017-01-12

This IBM® Redpaper™ publication describes the adapter-based virtualization capabilities that are being deployed in high-end IBM POWER7+™ processor-based servers. Peripheral Component Interconnect Express (PCIe) single root I/O virtualization (SR-IOV) is a virtualization technology on IBM Power Systems servers. SR-IOV allows multiple logical partitions

(LPARs) to share a PCIe adapter with little or no run time involvement of a hypervisor or other virtualization intermediary. SR-IOV does not replace the existing virtualization capabilities that are offered as part of the IBM PowerVM® offerings. Rather, SR-IOV compliments them with additional capabilities. This paper describes many aspects of the SR-IOV technology, including: A comparison of SR-IOV with standard virtualization technology Overall benefits of SR-IOV Architectural overview of SR-IOV Planning requirements SR-IOV deployment models that use standard I/O virtualization Configuring the adapter for dedicated or shared modes Tips for maintaining and troubleshooting your system Scenarios for configuring your system This paper is directed to clients, IBM Business Partners, and system administrators who are involved with planning, deploying, configuring, and maintaining key virtualization technologies. **ICT Systems and Sustainability** - Milan Tuba 2020-12-14

This book proposes new technologies and discusses future solutions for ICT design infrastructures, as reflected in high-quality papers presented at the 5th International Conference on ICT for Sustainable Development (ICT4SD 2020), held in Goa, India, on 23–24 July 2020. The conference provided a valuable forum for cutting-edge research discussions among pioneering researchers, scientists, industrial engineers, and students from all around the world. Bringing together experts from different countries, the book explores a range of central issues from an international perspective.

Exploiting IBM AIX Workload Partitions - Dino Quintero 2011-10-14

This IBM® Redbooks® publication provides an update of the latest AIX Workload Partition (WPAR) capabilities. It provides a how-to guide and well-defined and documented deployment model for system administrators and architects using WPARs in AIX® Version 7.1 within an IBM POWER® System virtualized environment. This book helps clients create a planned foundation for their future deployments. This book is targeted toward technical professionals, such as business intelligence (BI) consultants, technical support staff, IT architects, and IT specialists, who are responsible for providing solutions and support for IBM POWER Systems and IBM AIX

Version 7.1.

Modern Magic: A Practical Treatise on the Art of Conjuring - Professor Hoffmann 2019-11-22

"Modern Magic: A Practical Treatise on the Art of Conjuring" by Professor Hoffmann. Published by Good Press. Good Press publishes a wide range of titles that encompasses every genre. From well-known classics & literary fiction and non-fiction to forgotten—or yet undiscovered gems—of world literature, we issue the books that need to be read. Each Good Press edition has been meticulously edited and formatted to boost readability for all e-readers and devices. Our goal is to produce eBooks that are user-friendly and accessible to everyone in a high-quality digital format.

Guide to UNIX Using Linux - Michael Palmer 2007-08-16

Written with a clear, straightforward writing style and packed with step-by-step projects for direct, hands-on learning, *Guide to UNIX Using Linux, 4E* is the perfect resource for learning UNIX and Linux from the ground up. Through the use of practical examples, end-of-chapter reviews, and interactive exercises, novice users are transformed into confident UNIX/Linux users who can employ utilities, master files, manage and query data, create scripts, access a network or the Internet, and navigate popular user interfaces and software. The updated 4th edition incorporates coverage of the latest versions of UNIX and Linux, including new versions of Red Hat, Fedora, SUSE, and Ubuntu Linux. A new chapter has also been added to cover basic networking utilities, and several other chapters have been expanded to include additional information on the KDE and GNOME desktops, as well as coverage of the popular OpenOffice.org office suite. With a strong focus on universal UNIX and Linux commands that are transferable to all versions of Linux, this book is a must-have for anyone seeking to develop their knowledge of these systems. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Reliable Computer Systems - Daniel Siewiorek 2014-06-28

Enhance your hardware/software reliability
Enhancement of system reliability has been a major concern of computer users and designers ;

and this major revision of the 1982 classic meets users' continuing need for practical information on this pressing topic. Included are case studies of reliable systems from manufacturers such as Tandem, Stratus, IBM, and Digital, as well as coverage of special systems such as the Galileo Orbiter fault protection system and AT&T telephone switching processors.

Basics of Cutting and Abrasive Processes -

Hans Kurt Toenshoff 2013-06-12

Manufacturing is the basic industrial activity generating real value. Cutting and abrasive technologies are the backbone of precision production in machine, automotive and aircraft building as well as of production of consumer goods. We present the knowledge of modern manufacturing in these technologies on the basis of scientific research. The theory of cutting and abrasive processes and the knowledge about their application in industrial practice are a prerequisite for the studies of manufacturing science and an important part of the curriculum of the master study in German mechanical engineering. The basis of this book is our lecture "Basics of cutting and abrasive processes" (4 semester hours/3 credit hours) at the Leibniz University Hannover, which we offer to the diploma and master students specializing in manufacturing science.

The MPEG Handbook - John Watkinson

2012-09-10

A complete, professional 'bible' on all aspects of audio and video compression using MPEG technology, including the MPEG-4 standard and, in this second edition, H-264. The clarity of explanation and depth of technical detail combine to make this book an essential and definitive reference work. THE MPEG HANDBOOK is both a theoretical and practical treatment of the subject. Fundamental knowledge is provided alongside practical guidance on how to avoid pitfalls and poor quality. The often-neglected issues of reconstructing the signal timebase at the decoder and of synchronizing the signals in a multiplex are treated fully here. Previously titled MPEG-2, the book is frequently revised to cover the latest applications of the technology.

Understanding Big Data: Analytics for Enterprise Class Hadoop and Streaming Data - Paul Zikopoulos 2011-10-22

Big Data represents a new era in data exploration and utilization, and IBM is uniquely positioned to help clients navigate this transformation. This book reveals how IBM is leveraging open source Big Data technology, infused with IBM technologies, to deliver a robust, secure, highly available, enterprise-class Big Data platform. The three defining characteristics of Big Data--volume, variety, and velocity--are discussed. You'll get a primer on Hadoop and how IBM is hardening it for the enterprise, and learn when to leverage IBM InfoSphere BigInsights (Big Data at rest) and IBM InfoSphere Streams (Big Data in motion) technologies. Industry use cases are also included in this practical guide. Learn how IBM hardens Hadoop for enterprise-class scalability and reliability Gain insight into IBM's unique in-motion and at-rest Big Data analytics platform Learn tips and tricks for Big Data use cases and solutions Get a quick Hadoop primer
Microsoft SQL Server Black Book - Patrick Dalton 1997

Unlike other books on Microsoft SQL Server, "Microsoft SQL Server Black Book" includes customizable real-world examples and actual SQL code that readers can use in their own database systems. Special tips and techniques are provided to help Web masters use SQL server to support dynamic Web sites. The CD-ROM features all examples and SQL source code used in the book, plus a wealth of utilities and an online quick reference.

Applied Mathematics for Database Professionals - Lex deHaan 2007-10-24

This book touches on an area seldom explored: the mathematical underpinnings of the relational database. The topic is important, but far too often ignored. This is the first book to explain the underlying math in a way that's accessible to database professionals. Just as importantly, if not more so, this book goes beyond the abstract by showing readers how to apply that math in ways that will make them more productive in their jobs. What's in this book will "open the eyes" of most readers to the great power, elegance, and simplicity inherent in relational database technology.

Unix Backup and Recovery - W. Curtis Preston 1999

Providing an overview of all facets of UNIX

backup and recovery, this text offers practical solutions for environments of all sizes and budgets, explaining everything from freely-available backup systems to large-scale commercial utilities.

IBM Power E1080 Technical Overview and Introduction - Scott Vetter 2022-06-03

This IBM® Redpaper® publication provides a broad understanding of a new architecture of the IBM Power® E1080 (also known as the Power E1080) server that supports IBM AIX®, IBM i, and selected distributions of Linux operating systems. The objective of this paper is to introduce the Power E1080, the most powerful and scalable server of the IBM Power portfolio, and its offerings and relevant functions: Designed to support up to four system nodes and up to 240 IBM Power10™ processor cores The Power E1080 can be initially ordered with a single system node or two system nodes configuration, which provides up to 60 Power10 processor cores with a single node configuration or up to 120 Power10 processor cores with a two system nodes configuration. More support for a three or four system nodes configuration is to be added on December 10, 2021, which provides support for up to 240 Power10 processor cores with a full combined four system nodes server. Designed to supports up to 64 TB memory The Power E1080 can be initially ordered with the total memory RAM capacity up to 8 TB. More support is to be added on December 10, 2021 to support up to 64 TB in a full combined four system nodes server. Designed to support up to 32 Peripheral Component Interconnect® (PCIe) Gen 5 slots in a full combined four system nodes server and up to 192 PCIe Gen 3 slots with expansion I/O drawers The Power E1080 supports initially a maximum of two system nodes; therefore, up to 16 PCIe Gen 5 slots, and up to 96 PCIe Gen 3 slots with expansion I/O drawer. More support is to be added on December 10, 2021, to support up to 192 PCIe Gen 3 slots with expansion I/O drawers. Up to over 4,000 directly attached serial-attached SCSI (SAS) disks or solid-state drives (SSDs) Up to 1,000 virtual machines (VMs) with logical partitions (LPARs) per system System control unit, providing redundant system master Flexible Service Processor (FSP) Supports IBM Power System Private Cloud Solution with

Dynamic Capacity This publication is for professionals who want to acquire a better understanding of Power servers. The intended audience includes the following roles: Customers Sales and marketing professionals Technical support professionals IBM Business Partners Independent software vendors (ISVs) This paper does not replace the current marketing materials and configuration tools. It is intended as an extra source of information that, together with existing sources, can be used to enhance your knowledge of IBM server solutions.

The Definitive Guide to SQLite - Grant Allen 2011-01-28

Outside of the world of enterprise computing, there is one database that enables a huge range of software and hardware to flex relational database capabilities, without the baggage and cost of traditional database management systems. That database is SQLite—an embeddable database with an amazingly small footprint, yet able to handle databases of enormous size. SQLite comes equipped with an array of powerful features available through a host of programming and development environments. It is supported by languages such as C, Java, Perl, PHP, Python, Ruby, TCL, and more. The Definitive Guide to SQLite, Second Edition is devoted to complete coverage of the latest version of this powerful database. It offers a thorough overview of SQLite's capabilities and APIs. The book also uses SQLite as the basis for helping newcomers make their first foray into database development. In only a short time you can be writing programs as diverse as a server-side browser plug-in or the next great iPhone or Android application! Learn about SQLite extensions for C, Java, Perl, PHP, Python, Ruby, and Tcl. Get solid coverage of SQLite internals. Explore developing iOS (iPhone) and Android applications with SQLite. SQLite is the solution chosen for thousands of products around the world, from mobile phones and GPS devices to set-top boxes and web browsers. You almost certainly use SQLite every day without even realizing it!

IBM Power System E950: Technical Overview and Introduction - Scott Vetter 2019-12-09

This IBM® Redpaper™ publication gives a broad understanding of a new architecture of

the IBM Power System E950 (9040-MR9) server that supports IBM AIX®, and Linux operating systems. The objective of this paper is to introduce the major innovative Power E950 offerings and relevant functions: The IBM POWER9™ processor, which is available at frequencies of 2.8 - 3.4 GHz. Significantly strengthened cores and larger caches. Supports up to 16 TB of memory, which is four times more than the IBM POWER8® processor-based IBM Power System E850 server. Integrated I/O subsystem and hot-pluggable Peripheral Component Interconnect Express (PCIe) Gen4 slots, which have double the bandwidth of Gen3 I/O slots. Supports EXP12SX and ESP24SX external disk drawers, which have 12 Gb Serial Attached SCSI (SAS) interfaces and support Active Optical Cables (AOCs) for greater distances and less cable bulk. New IBM EnergyScale™ technology offers new variable processor frequency modes that provide a significant performance boost beyond the static nominal frequency. This publication is for professionals who want to acquire a better understanding of IBM Power Systems™ products. The intended audience includes the following roles: Clients Sales and marketing professionals Technical support professionals IBM Business Partners Independent software vendors (ISVs) This paper expands the current set of Power Systems documentation by providing a desktop reference that offers a detailed technical description of the Power E950 server. This paper does not replace the current marketing materials and configuration tools. It is intended as an extra source of information that, together with existing sources, can be used to enhance your knowledge of IBM server solutions.

Running Linux - Matt Welsh 1996

An introduction to Linux (a free UNIX-compatible operating system developed by volunteers on the internet) that covers installation and configuration; basic UNIX commands; system administration and maintenance; editors, text tools, and printing; applications; programming; and telecommunication. Annotation copyrighted by Book News, Inc., Portland, OR

Embedded Android - Karim Yaghmour
2013-03-15

Embedded Android is for Developers wanting to create embedded systems based on Android and for those wanting to port Android to new hardware, or creating a custom development environment. Hackers and moders will also find this an indispensable guide to how Android works.

The Complete FreeBSD - Greg Lehey 2003-04-29

This practical guidebook explains not only how to get a computer up and running with the FreeBSD operating system, but how to turn it into a highly functional and secure server that can host large numbers of users and disks, support remote access and provide key parts of the Inter

CompTIA A+ Complete Study Guide - Quentin Docter 2007-02-03

All-in-one guide prepares you for CompTIA's new A+ Certification Candidates aiming for CompTIA's revised, two-exam A+ Certified Track will find everything they need in this value-packed book. Prepare for the required exam, CompTIA A+ Essentials (220-601), as well as your choice of one of three additional exams focusing on specific job roles--IT Technician (220-602), Remote Support Technician (220-603), or Depot Technician (220-604). This in-depth book prepares you for any or all four exams, with full coverage of all exam objectives. Inside, you'll find: Comprehensive coverage of all exam objectives for all four exams in a systematic approach, so you can be confident you're getting the instruction you need Hand-on exercises to reinforce critical skills Real-world scenarios that show you life beyond the classroom and put what you've learned in the context of actual job roles Challenging review questions in each chapter to prepare you for exam day Exam Essentials, a key feature at the end of each chapter that identifies critical areas you must become proficient in before taking the exams A handy fold-out that maps every official exam objective to the corresponding chapter in the book, so you can track your exam prep objective by objective Look inside for complete coverage of all exam objectives for all four CompTIA A+ exams. Featured on the CD SYBEX TEST ENGINE: Test your knowledge with advanced testing software. Includes all chapter review questions and 8 total practice exams. ELECTRONIC FLASHCARDS: Reinforce your

understanding with flashcards that can run on your PC, Pocket PC, or Palm handheld. Also on CD, you'll find the entire book in searchable and printable PDF. Study anywhere, any time, and approach the exam with confidence. Visit www.sybex.com for all of your CompTIA certification needs. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

MathCAD. - 1995

Modeling Financial Time Series with S-PLUS - Eric Zivot 2013-11-11

The field of financial econometrics has exploded over the last decade This book represents an integration of theory, methods, and examples using the S-PLUS statistical modeling language and the S+FinMetrics module to facilitate the practice of financial econometrics. This is the first book to show the power of S-PLUS for the analysis of time series data. It is written for researchers and practitioners in the finance industry, academic researchers in economics and finance, and advanced MBA and graduate students in economics and finance. Readers are assumed to have a basic knowledge of S-PLUS and a solid grounding in basic statistics and time series concepts. This Second Edition is updated to cover S+FinMetrics 2.0 and includes new chapters on copulas, nonlinear regime switching models, continuous-time financial models, generalized method of moments, semi-nonparametric conditional density models, and the efficient method of moments. Eric Zivot is an associate professor and Gary Waterman Distinguished Scholar in the Economics Department, and adjunct associate professor of finance in the Business School at the University of Washington. He regularly teaches courses on econometric theory, financial econometrics and time series econometrics, and is the recipient of the Henry T. Buechel Award for Outstanding Teaching. He is an associate editor of *Studies in Nonlinear Dynamics and Econometrics*. He has published papers in the leading econometrics journals, including *Econometrica*, *Econometric Theory*, the *Journal of Business and Economic Statistics*, *Journal of Econometrics*, and the *Review of Economics and Statistics*. Jiahui Wang is an employee of Ronin Capital LLC. He received a Ph.D. in Economics from the

University of Washington in 1997. He has published in leading econometrics journals such as *Econometrica* and *Journal of Business and Economic Statistics*, and is the Principal Investigator of National Science Foundation SBIR grants. In 2002 Dr. Wang was selected as one of the "2000 Outstanding Scholars of the 21st Century" by International Biographical Centre.

Fundamentals of Modern Manufacturing - Mikell P. Groover 1996-01-15

This book takes a modern, all-inclusive look at manufacturing processes. Its coverage is strategically divided—65% concerned with manufacturing process technologies, 35% dealing with engineering materials and production systems.

Hadoop For Dummies - Dirk deRoos 2014-04-14

Let Hadoop For Dummies help harness the power of your data and rein in the information overload Big data has become big business, and companies and organizations of all sizes are struggling to find ways to retrieve valuable information from their massive data sets with becoming overwhelmed. Enter Hadoop and this easy-to-understand For Dummies guide. Hadoop For Dummies helps readers understand the value of big data, make a business case for using Hadoop, navigate the Hadoop ecosystem, and build and manage Hadoop applications and clusters. Explains the origins of Hadoop, its economic benefits, and its functionality and practical applications Helps you find your way around the Hadoop ecosystem, program MapReduce, utilize design patterns, and get your Hadoop cluster up and running quickly and easily Details how to use Hadoop applications for data mining, web analytics and personalization, large-scale text processing, data science, and problem-solving Shows you how to improve the value of your Hadoop cluster, maximize your investment in Hadoop, and avoid common pitfalls when building your Hadoop cluster From programmers challenged with building and maintaining affordable, scaleable data systems to administrators who must deal with huge volumes of information effectively and efficiently, this how-to has something to help you with Hadoop.

Running Linux - Matthias Kalle Dalheimer

2005-12-22

You may be contemplating your first Linux installation. Or you may have been using Linux for years and need to know more about adding a network printer or setting up an FTP server. Running Linux, now in its fifth edition, is the book you'll want on hand in either case. Widely recognized in the Linux community as the ultimate getting-started and problem-solving book, it answers the questions and tackles the configuration issues that frequently plague users, but are seldom addressed in other books. This fifth edition of Running Linux is greatly expanded, reflecting the maturity of the operating system and the teeming wealth of software available for it. Hot consumer topics such as audio and video playback applications, groupware functionality, and spam filtering are covered, along with the basics in configuration and management that always have made the book popular. Running Linux covers basic communications such as mail, web surfing, and instant messaging, but also delves into the subtleties of network configuration--including dial-up, ADSL, and cable modems--in case you need to set up your network manually. The book can make you proficient on office suites and personal productivity applications--and also tells you what programming tools are available if you're interested in contributing to these applications. Other new topics in the fifth edition include encrypted email and filesystems, advanced shell techniques, and remote login applications. Classic discussions on booting, package management, kernel recompilation, and X configuration have also been updated. The authors of Running Linux have anticipated problem areas, selected stable and popular solutions, and provided clear instructions to ensure that you'll have a satisfying experience using Linux. The discussion is direct and complete enough to guide novice users, while still providing the additional information experienced users will need to progress in their mastery of Linux. Whether you're using Linux on a home workstation or maintaining a network server, Running Linux will provide expert advice just when you need it.

POWER8 High-performance Computing Guide IBM Power System S822LC (8335-GTB) Edition - Dino Quintero 2017-08-04

This IBM® Redbooks® publication documents and addresses topics to provide step-by-step customizable application and programming solutions to tune application and workloads to use IBM Power Systems™ hardware architecture. This publication explores, tests, and documents the solution to use the architectural technologies and the software solutions that are available from IBM to help solve challenging technical and business problems. This publication also demonstrates and documents that the combination of IBM high-performance computing (HPC) solutions (hardware and software) delivers significant value to technical computing clients who are in need of cost-effective, highly scalable, and robust solutions. First, the book provides a high-level overview of the HPC solution, including all of the components that makes the HPC cluster: IBM Power System S822LC (8335-GTB), software components, interconnect switches, and the IBM Spectrum™ Scale parallel file system. Then, the publication is divided in three parts: Part 1 focuses on the developers, Part 2 focuses on the administrators, and Part 3 focuses on the evaluators and planners of the solution. The IBM Redbooks publication is targeted toward technical professionals (consultants, technical support staff, IT Architects, and IT Specialists) who are responsible for delivering cost-effective HPC solutions that help uncover insights from vast amounts of client's data so they can optimize business results, product development, and scientific discoveries.

GIMP - Karin Kylander 1999

The authors comprehensively cover GIMP by teaching readers all aspects ranging from installing to scripting to working faster and more efficiently through shortcuts. Features a 32-page Color Studio with inspiring images readers can create by learning all of the program's techniques in the book. The CD-ROM contains core GIMP software, plug-ins, and libraries that add file formats and effects to harness the power of this expandable and extensible program.

[Global Tuberculosis Report 2019](#) - World Health Organization 2019-08-12

WHO has published a global TB report every year since 1997. The main aim of the report is to

provide a comprehensive and up-to-date assessment of the TB epidemic, and of progress in prevention, diagnosis and treatment of the disease, at global, regional and country levels. This is done in the context of recommended global TB strategies and targets endorsed by WHO's Member States, broader development goals set by the United Nations (UN) and targets set in the political declaration at the first UN high-level meeting on TB (held in September 2018). The 2019 edition of the global TB report was released on 17 October 2019. The data in this report are updated annually. Please note that direct comparisons between estimates of TB disease burden in the latest report and previous reports are not appropriate. The most recent time-series of estimates are published in the 2019 global TB report.

Efficient Processing of Deep Neural

Networks - Vivienne Sze 2020-06-24

This book provides a structured treatment of the key principles and techniques for enabling efficient processing of deep neural networks (DNNs). DNNs are currently widely used for many artificial intelligence (AI) applications, including computer vision, speech recognition, and robotics. While DNNs deliver state-of-the-art accuracy on many AI tasks, it comes at the cost of high computational complexity. Therefore, techniques that enable efficient processing of deep neural networks to improve metrics—such as energy-efficiency, throughput, and latency—without sacrificing accuracy or increasing hardware costs are critical to enabling the wide deployment of DNNs in AI systems. The book includes background on DNN processing; a description and taxonomy of hardware architectural approaches for designing DNN accelerators; key metrics for evaluating and comparing different designs; features of the DNN processing that are amenable to hardware/algorithm co-design to improve energy efficiency and throughput; and opportunities for applying new technologies. Readers will find a structured introduction to the field as well as a formalization and organization of key concepts from contemporary works that provides insights that may spark new ideas.

[IBM Power System E980: Technical Overview and Introduction](#) - Scott Vetter 2020-01-10

This IBM® Redpaper™ publication provides a

broad understanding of a new architecture of the IBM Power System E980 (9080-M9S) server that supports IBM AIX®, IBM i, and Linux operating systems (OSes). The objective of this paper is to introduce the major innovative Power E980 offerings and relevant functions: The IBM POWER9™ processor, which is available at frequencies of 3.55 - 4.0 GHz. Significantly strengthened cores and larger caches. Supports up to 64 TB memory. Integrated I/O subsystem and hot-pluggable Peripheral Component Interconnect Express (PCIe) Gen4 slots, double the bandwidth of Gen3 I/O slots. Supports EXP12SX and ESP24SX external disk drawers, which have 12 Gb SAS interfaces and double the existing EXP24S drawer bandwidth. New IBM EnergyScale™ technology offers new variable processor frequency modes that provide a significant performance boost beyond the static nominal frequency. This publication is for professionals who want to acquire a better understanding of IBM Power Systems™ products. The intended audience includes the following roles: Clients Sales and marketing professionals Technical support professionals IBM Business Partners Independent software vendors (ISVs) This paper expands the current set of IBM Power Systems documentation by providing a desktop reference that offers a detailed technical description of the Power E980 server. This paper does not replace the current marketing materials and configuration tools. It is intended as an extra source of information that, together with existing sources, can be used to enhance your knowledge of IBM server solutions.

Ubuntu Linux Bible - William von Hagen 2007-03-26

Everything you need to know—and then some! It's the fastest-growing, coolest Linux distribution out there, and now you can join the excitement with this information-packed guide. Want to edit graphics? Create a spreadsheet? Manage groups? Set up an NFS server? You'll learn it all and more with the expert guidance, tips, and techniques in this first-ever soup-to-nuts book on Ubuntu. From the basics for newcomers to enterprise management for system administrators, it's what you need to succeed with Ubuntu. Master the fundamentals for desktop and networks Send e-mail, share

files, edit text, and print Download music, watch DVDs, and play games Use Ubuntu on laptops, go wireless, or synch it with your PDA Set up Web, mail, print, DNS, DHCP, and other servers Manage groups and secure your network What's on the CD-ROM? Test-drive Ubuntu on your computer without changing a thing using the bootable Ubuntu Desktop Live CD included with this book. If you decide to install it permanently, a simple, easy-to-use installer is provided. Also on the CD, you'll find: Popular open-source software for Microsoft(r) Windows(r), such as AbiWord, Firefox(r), GIMP, and more An easy-to-use application that simplifies installing these programs on your Microsoft Windows system System Requirements: Please see the "About the CD-ROM Appendix" for details and complete system requirements. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Visible Light Communication - Shlomi Arnon
2015-03-05

Visible light communication (VLC) is an evolving communication technology for short-range applications. Exploiting recent advances in the development of high-power visible-light emitting LEDs, VLC offers an energy-efficient, clean alternative to RF technology, enabling the development of optical wireless communication systems that make use of existing lighting infrastructure. Drawing on the expertise of leading researchers from across the world, this concise book sets out the theoretical principles of VLC, and outlines key applications of this cutting-edge technology. Providing insight into modulation techniques, positioning and communication, synchronisation, and industry standards, as well as techniques for improving network performance, this is an invaluable resource for graduate students and researchers in the fields of visible light communication, optical wireless communication, and industrial practitioners in the field of telecommunications.

Implementing an IBM High-Performance Computing Solution on IBM Power System S822LC - Dino Quintero 2016-07-25

This IBM® Redbooks® publication demonstrates and documents that IBM Power Systems™ high-performance computing and technical computing solutions deliver faster time

to value with powerful solutions. Configurable into highly scalable Linux clusters, Power Systems offer extreme performance for demanding workloads such as genomics, finance, computational chemistry, oil and gas exploration, and high-performance data analytics. This book delivers a high-performance computing solution implemented on the IBM Power System S822LC. The solution delivers high application performance and throughput based on its built-for-big-data architecture that incorporates IBM POWER8® processors, tightly coupled Field Programmable Gate Arrays (FPGAs) and accelerators, and faster I/O by using Coherent Accelerator Processor Interface (CAPI). This solution is ideal for clients that need more processing power while simultaneously increasing workload density and reducing datacenter floor space requirements. The Power S822LC offers a modular design to scale from a single rack to hundreds, simplicity of ordering, and a strong innovation roadmap for graphics processing units (GPUs). This publication is targeted toward technical professionals (consultants, technical support staff, IT Architects, and IT Specialists) responsible for delivering cost effective high-performance computing (HPC) solutions that help uncover insights from their data so they can optimize business results, product development, and scientific discoveries

Debian GNU/Linux Bible - Steve Hunger 2001
Debian GNU/Linux is one of the major Linux distributions available today. It is known as the most open" of the Linux distributions -- for its commitment to the free software principals, and its community-centricism. It is also known for its tradition of high-quality packages and package management tools, as well as its focus on security issues. Debian GNU/Linux(r) Bible focuses on common apps, GUIs, networking, and system administration. The Debian Project's Internet-based development model has helped the distribution achieve unparalleled Internet functionality. One of the most popular features in Debian GNU/Linux is "apt-get," which automates free network downloads of all software package updates, making the Debian CD the last CD you will ever need to keep your system up-to-date with Linux."