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Nicola Lucchi

  Open Source Fadi P. Deek,James A. M. McHugh,2007-11-05 From the Internet's infrastructure to operating systems like GNU/Linux, the open source movement comprises some of the greatest accomplishments in computing over the past quarter century. Its story embraces technological advances, unprecedented global collaboration, and remarkable tools for facilitating distributed development. The evolution of the Internet enabled an enormous expansion of open development, allowing developers to exchange information and ideas without regard to constraints of space, time, or national boundary. The movement has had widespread impact on education and government, as well as historic cultural and commercial repercussions. Part I discusses key open source applications, platforms, and technologies used in open development. Part II explores social issues ranging from demographics and psychology to legal and economic matters. Part III discusses the Free Software Foundation, open source in the public sector (government and education), and future prospects.
  The Impact of Science and Technology on the Rights of the Individual Nicola Lucchi,2016-06-14 The volume is devoted to the relevant problems in the legal sphere, created and generated by recent advances in science and technology. In particular, it investigates a series of cutting-edge contemporary and controversial case-studies where scientific and technological issues intersect with individual legal rights. The book addresses challenging topics at the intersection of communication technologies and biotech innovations such as freedom of expression, right to health, knowledge production, Internet content regulation, accessibility and freedom of scientific research.
  Trends in Bioinformatics Research Peter V. Yan,2005 The genomic revolution that has spawned microarrays and high throughput technologies has produced vast amounts of complex biological data that require integration and multidimensional analysis. Bioinformatics incorporates sub-disciplines, ranging from databases and ontologies to the modelling of complex biological systems by way of molecular evolution and protein structure prediction. This new book provides state-of-the-art research from around the world.
  Efficient MySQL Performance Daniel Nichter,2021-11-30 You'll find several books on basic or advanced MySQL performance, but nothing in between. That's because explaining MySQL performance without addressing its complexity is difficult. This practical book bridges the gap by teaching software engineers mid-level MySQL knowledge beyond the fundamentals, but well shy of deep-level internals required by database administrators (DBAs). Daniel Nichter shows you how to apply the best practices and techniques that directly affect MySQL performance. You'll learn how to improve performance by analyzing query execution, indexing for common SQL clauses and table joins, optimizing data access, and understanding the most important MySQL metrics. You'll also discover how replication, transactions, row locking, and the cloud influenceMySQL performance. Understand why query response time is the North Star of MySQL performance Learn query metrics in detail, including aggregation, reporting, and analysis See how to index effectively for common SQL clauses and table joins Explore the most important server metrics and what they reveal about performance Dive into transactions and row locking to gain deep, actionable insight Achieve remarkable MySQL performance at any scale
  Open Source Projects - Beyond Code John Mertic,2023-04-21 Accelerate your career and make an impact by launching and running a successful open source project. Purchase of the print or Kindle book includes a free PDF eBook Key Features Understand the method and rationale for launching an open source project Explore best practices and insights for running an open source project Leverage open source projects to advance your career Book Description Open source is ubiquitous in our society, with countless existing projects, and new ones emerging every day. It follows a scratch-your-own-itch model where contributors and maintainers drive the project forward. Through Open Source Projects - Beyond Code, you'll learn what it takes to develop a successful, scalable, and sustainable open source project. In this book, you'll explore the full life cycle of open source projects, from inception, through launch, to maturity, and then discover how to sunset an open source project responsibly. Along the way, you'll learn the concepts of licensing, governance, community building, ecosystem management, and growing maintainers and contributors, as well as understand how other open source projects have been successful or might have struggled in some areas. You can use this book as an end-to-end guide or reference material for the future. By the end of this book, you'll be able to accelerate your career in open source. Your newly acquired skills will help you stay ahead of the curve even with the ever-evolving nature of technology. What you will learn Explore what is open source and how you can use it to accelerate your career Start an open source project while exploring its key considerations Grow, support, and manage a vast community of developers and users Build and maintain a mature and sustainable project Enable mass users and developers to downstream productization and outreach Use open source as a portfolio to build your career Understand when to end a project and conduct it responsibly Who this book is for This book is for software developers, product managers, project managers, business leaders, or general enthusiasts looking to start an open source project or currently maintaining one.
  Mastering Embedded Linux Programming Chris Simmonds,2015-12-29 Harness the power of Linux to create versatile and robust embedded solutions About This Book Create efficient and secure embedded devices using Linux Minimize project costs by using open source tools and programs Explore each component technology in depth, using sample implementations as a guide Who This Book Is For This book is ideal for Linux developers and system programmers who are already familiar with embedded systems and who want to know how to create best-in-class devices. A basic understanding of C programming and experience with systems programming is needed. What You Will Learn Understand the role of the Linux kernel and select an appropriate role for your application Use Buildroot and Yocto to create embedded Linux systems quickly and efficiently Create customized bootloaders using U-Boot Employ perf and ftrace to identify performance bottlenecks Understand device trees and make changes to accommodate new hardware on your device Write applications that interact with Linux device drivers Design and write multi-threaded applications using POSIX threads Measure real-time latencies and tune the Linux kernel to minimize them In Detail Mastering Embedded Linux Programming takes you through the product cycle and gives you an in-depth description of the components and options that are available at each stage. You will begin by learning about toolchains, bootloaders, the Linux kernel, and how to configure a root filesystem to create a basic working device. You will then learn how to use the two most commonly used build systems, Buildroot

and Yocto, to speed up and simplify the development process. Building on this solid base, the next section considers how to make best use of raw NAND/NOR flash memory and managed flash eMMC chips, including mechanisms for increasing the lifetime of the devices and to perform reliable in-field updates. Next, you need to consider what techniques are best suited to writing applications for your device. We will then see how functions are split between processes and the usage of POSIX threads, which have a big impact on the responsiveness and performance of the final device The closing sections look at the techniques available to developers for profiling and tracing applications and kernel code using perf and ftrace. Style and approach This book is an easy-to-follow and pragmatic guide consisting of an in-depth analysis of the implementation of embedded devices. Each topic has a logical approach to it; this coupled with hints and best practices helps you understand embedded Linux better.

Software Transparency Chris Hughes,Tony Turner,2023-05-03 Discover the new cybersecurity landscape of the interconnected software supply chain In Software Transparency: Supply Chain Security in an Era of a Software-Driven Society, a team of veteran information security professionals delivers an expert treatment of software supply chain security. In the book, you'll explore real-world examples and guidance on how to defend your own organization against internal and external attacks. It includes coverage of topics including the history of the software transparency movement, software bills of materials, and high assurance attestations. The authors examine the background of attack vectors that are becoming increasingly vulnerable, like mobile and social networks, retail and banking systems, and infrastructure and defense systems. You'll also discover: Use cases and practical guidance for both software consumers and suppliers Discussions of firmware and embedded software, as well as cloud and connected APIs Strategies for understanding federal and defense software supply chain initiatives related to security An essential resource for cybersecurity and application security professionals, Software Transparency will also be of extraordinary benefit to industrial control system, cloud, and mobile security professionals.

20. ASIM Fachtagung Simulation in Produktion und Logistik Sören Feldkamp, Niclas Souren, Rainer Straßburger, Steffen Bergmann,2023-01-01 Die 20. ASIM-Fachtagung Simulation in Produktion und Logistik, Ilmenau, 13.-15. September 2023, steht unter dem Motto der „Nachhaltigkeit in Produktion und Logistik". Sie soll Anregungen und Denkanstöße geben und über bereits erfolgreiche Projekte und Neuerungen berichten. Der vorliegende Tagungsband präsentiert neben aktuellen Beiträgen aus der klassischen Simulationsforschung und -anwendung, die z.B. den Digitalen Zwilling thematisieren, auch hochinteressante und einschlägige Beiträge zu Fragen der Abbildung energie- und nachhaltigkeitsbezogener Einflussfaktoren in der Simulation.

Systems Performance Brendan Gregg,2020-12-09 Systems Performance, Second Edition, covers concepts, strategy, tools, and tuning for operating systems and applications, using Linux-based operating systems as the primary example. A deep understanding of these tools and techniques is critical for developers today. Implementing the strategies described in this thoroughly revised and updated edition can lead to a better end-user experience and lower costs, especially for cloud computing environments that charge by the OS instance. Systems performance expert and best-selling author Brendan Gregg summarizes relevant operating system, hardware, and application theory to quickly get professionals up to speed even if they have never analyzed performance before. Gregg then provides in-depth explanations of the latest tools and techniques, including extended BPF, and shows how to get the most out of cloud, web, and large-scale enterprise systems. Key topics covered include Hardware, kernel, and application internals, and how they perform Methodologies for rapid performance analysis of complex systems Optimizing CPU, memory, file system, disk, and networking usage Sophisticated profiling and tracing with perf, Ftrace, and BPF (BCC and bpftrace) Performance challenges associated with cloud computing hypervisors Benchmarking more effectively Featuring up-to-date coverage of Linux operating systems and environments, Systems Performance, Second Edition, also addresses issues that apply to any computer system. The book will be a go-to reference for many years to come and, like the first edition, required reading at leading tech companies. Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

Cognitive Data Models for Sustainable Environment Siddhartha Bhattacharyya,Naba Kumar Mondal,Koushik Mondal,Jyoti Prakash Singh,Kolla Bhanu Prakash,2021-09-19 Cognitive Models for Sustainable Environment reviews the fundamental concepts of gathering, processing and analyzing data from batch processes, along with a review of intelligent and cognitive tools that can be used. The book is centered on evolving novel intelligent/cognitive models and algorithms to develop sustainable solutions for the mitigation of environmental pollution. It unveils intelligent and cognitive models to address issues related to the effective monitoring of environmental pollution and sustainable environmental design. As such, the book focuses on the overall well-being of the global environment for better sustenance and livelihood. The book covers novel cognitive models for effective environmental pollution data management at par with the standards laid down by the World Health Organization. Every chapter is supported by real-life case studies, illustrative examples and video demonstrations that enlighten readers. Explores the development and application of science, engineering and technology in achieving a sustainable lifestyle for humanity Provides tools, connections and proactive solutions to take sustainability programs to the next level Offers perspectives for design, development and commissioning of intelligent applications Provides reviews on the latest intelligent technologies and algorithms related to state-of-the-art methodologies of monitoring and mitigation of environmental pollution

Cloud Observability in Action Michael Hausenblas,2024-01-23 Don't fly blind. Observability gives you actionable insights into your cloud native systems—from pinpointing errors, to increasing developer productivity, to tracking compliance. Observability is the difference between an error message and an error explanation with a recipe how to resolve the error! You know exactly which service is affected, who's responsible for its repair, and even how it can be optimized in the future. Cloud Observability in Action teaches you how to set up an observability system that learns from a cloud application's signals, logging, and monitoring, all using free and open source tools. In Cloud Observability in Action you will learn how to: Apply observability in cloud native systems Understand observability signals, including their costs and benefits Apply good practices around instrumentation and signal collection Deliver dashboarding, alerting, and SLOs/SLIs at scale Choose the correct signal types for given roles or tasks Pick the right observability tool for any given function Communicate the benefits of observability to management A well-designed observability system provides insight into bugs and performance issues in cloud native applications. They help your development team understand the impact of

code changes, measure optimizations, and track user experience. Best of all, observability can even automate your error handling so that machine users apply their own fixes—no more 3AM calls for emergency outages. About the technology Cloud native systems are made up of hundreds of moving parts. When something goes wrong, it's not enough to know there is a problem—you need to know where it is, what it is, and how to fix it. This book takes you beyond traditional monitoring, explaining observability systems that turn application telemetry into actionable insights. About the book Cloud Observability in Action gives you the background and techniques you need to successfully introduce observability into cloud-based serverless and Kubernetes environments. In it, you'll learn to use open standards and tools like OpenTelemetry, Prometheus, and Grafana to build your own observability system and end reliance on proprietary software. You'll discover insights from different telemetry signals, including logs, metrics, traces, and profiles. Plus, the book's rigorous cost-benefit analysis ensures you're getting a real return on your observability investment. What's inside Observability in and of cloud native systems Dashboarding, alerting, and SLOs/SLIs at scale Signal types for any role or task State-of-the-art open source observability tools About the reader For application developers, platform owners, DevOps, and SREs. About the author Michael Hausenblas is a Product Owner in the AWS open source observability team. Table of Contents 1 End-to-end observability 2 Signal types 3 Sources 4 Agents and instrumentation 5 Backend destinations 6 Frontend destinations 7 Cloud operations 8 Distributed tracing 9 Developer observability 10 Service level objectives 11 Signal correlation

Computer Security – ESORICS 2021 Elisa Bertino,Haya Shulman,Michael Waidner,2021-10-01 The two volume set LNCS 12972 + 12973 constitutes the proceedings of the 26th European Symposium on Research in Computer Security, ESORICS 2021, which took place during October 4-8, 2021. The 71 full papers presented in this book were carefully reviewed and selected from 351 submissions. They were organized in topical sections as follows: Part I: network security; attacks; fuzzing; malware; user behavior and underground economy; blockchain; machine learning; automotive; anomaly detection; Part II: encryption; cryptography; privacy; differential privacy; zero knowledge; key exchange; multi-party computation.

Tools and Techniques for High Performance Computing Guido Juckeland,Sunita Chandrasekaran,2020-03-25 This book constitutes the refereed proceedings of 3 workshops co-located with International Conference for High Performance Computing, Networking, Storage, and Analysis, SC19, held in Denver, CO, USA, in November 2019. The 12 full papers presented in this proceedings feature the outcome of the 6th Annual Workshop on HPC User Support Tools, HUST 2019, International Workshop on Software Engineering for HPC-Enabled Research, SE-HER 2019, and Third Workshop on Interactive High-Performance Computing, WIHPC 2019.

Creating Blogs with Jekyll Vikram Dhillon,2016-06-13 Learn to create your own blog using the Jekyll static site generator. You'll start with a simple template, add new features to it, automate any maintenance, attach social sharing, and begin writing. By the end of Creating Blogs with Jekyll, you will be able to create custom blogs with Jekyll, update the content with ease, and reach out to your readers with minimal effort. Because you've built your blog yourself, you'll know exactly how each component works, and you won't be dependent on an admin panel to maintain it. Creating Blogs with Jekyll equips you with the knowledge to create an elegantly designed blog and scale it to capture more readers. Recapture the magic of writing by creating great content and use an easy workflow in Jekyll to maintain it for blogging. Do new things and write about them in style with Jekyll. Takes you through building a fully functional blog from scratch using Jekyll Provides a fun way to work on a side-project and integrate cutting edge web technologies Teaches you how to update and maintain your awesome blog Jekyll is a simple, secure and very low maintenance blog engine that converts naturally written content in markdown into a beautiful and minimal blog. It allows you to focus on content creation and expressing yourself instead of spending all your time updating the plugins and maintaining the database. Jekyll does not rely on a database as a backend so your blog will be far more secure and reliable than any traditional blogging engines such as WordPress. We live in a day and age where short attention spans make it very difficult to expose a reader to interesting content. What better way to capture a reader's attention and retain viewers by captivating them by your own unique style and taste? Jekyll allows the content to shine with minimal distractions and a greater focus on the content and easy sharing of the content. What You'll Learn Choose a base theme appropriate for your style and development Integrate various web technologies that will work well together and enhance your blog Automate social sharing components and comments workflow Make adjustments to themes, views and styles of blog posts Update any of the modular components of the blog and integrate new technologies Implement Jekyll and deploying static websites for future projects Who This Book Is For The developer who is ready to move beyond the complexities of maintaining a content management system by creating their own unique blog in their own style. It's for the project manager tired of spending all their time editing their blog on the admin panel and updating the content management system. Creating Blogs with Jekyll is an excellent choice for new developers to start blogging because of the simplicity of Jekyll's theming layer and writing workflow. It's an excellent choice for the web developer wanting to build their blog from scratch and expand their knowledge of higher level web technologies.

Linux: Embedded Development Alexandru Vaduva,Alex Gonzalez,Chris Simmonds,2016-09-27 Leverage the power of Linux to develop captivating and powerful embedded Linux projects About This Book Explore the best practices for all embedded product development stages Learn about the compelling features offered by the Yocto Project, such as customization, virtualization, and many more Minimize project costs by using open source tools and programs Who This Book Is For If you are a developer who wants to build embedded systems using Linux, this book is for you. It is the ideal guide for you if you want to become proficient and broaden your knowledge. A basic understanding of C programming and experience with systems programming is needed. Experienced embedded Yocto developers will find new insight into working methodologies and ARM specific development competence. What You Will Learn Use the Yocto Project in the embedded Linux development process Get familiar with and customize the bootloader for a board Discover more about real-time layer, security, virtualization, CGL, and LSB See development workflows for the U-Boot and the Linux kernel, including debugging and optimization Understand the open source licensing requirements and how to comply with them when cohabiting with proprietary programs Optimize your production systems by reducing the size of both the Linux kernel and root filesystems Understand device trees and make changes to accommodate new hardware on your device Design and write multi-threaded applications using POSIX threads Measure real-time latencies and tune the Linux kernel to minimize them In Detail Embedded Linux is a complete Linux distribution employed to operate embedded devices such as smartphones, tablets, PDAs, set-top boxes, and many more. An example of an embedded Linux distribution is Android, developed by Google. This learning path starts with the module Learning Embedded Linux Using the Yocto Project.

It introduces embedded Linux software and hardware architecture and presents information about the bootloader. You will go through Linux kernel features and source code and get an overview of the Yocto Project components available. The next module Embedded Linux Projects Using Yocto Project Cookbook takes you through the installation of a professional embedded Yocto setup, then advises you on best practices. Finally, it explains how to quickly get hands-on with the Freescale ARM ecosystem and community layer using the affordable and open source Wandboard embedded board. Moving ahead, the final module Mastering Embedded Linux Programming takes you through the product cycle and gives you an in-depth description of the components and options that are available at each stage. You will see how functions are split between processes and the usage of POSIX threads. By the end of this learning path, your capabilities will be enhanced to create robust and versatile embedded projects. This Learning Path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: Learning Embedded Linux Using the Yocto Project by Alexandru Vaduva Embedded Linux Projects Using Yocto Project Cookbook by Alex Gonzalez Mastering Embedded Linux Programming by Chris Simmonds Style and approach This comprehensive, step-by-step, pragmatic guide enables you to build custom versions of Linux for new embedded systems with examples that are immediately applicable to your embedded developments. Practical examples provide an easy-to-follow way to learn Yocto project development using the best practices and working methodologies. Coupled with hints and best practices, this will help you understand embedded Linux better.

The Definitive Guide to Drupal 7 Benjamin Melancon,Allie Micka,Amye Scavarda,Benjamin Doherty,Bojhan Somers,Jacine Rodriguez,Karoly Negyesi,Moshe Weitzman,Roy Scholten,Ryan Szrama,Sam Boyer,Stephane Corlosquet,Amanda Miller-Johnson,Andrew Grice,Dan Hakimzadeh,Kasey Dolin,Stefan Freudenberg,2011-12-27 The Definitive Guide to Drupal 7 is the most comprehensive book for getting sites done using the powerful and extensible Drupal content management system. Written by a panel of expert authors, the book covers every aspect of Drupal, from planning a successful project all the way up to making a living from designing Drupal sites and to contributing to the Drupal community yourself. With this book you will: Follow practical approaches to solving many online communication needs with Drupal with real examples. Learn how to keep learning about Drupal: administration, development, theming, design, and architecture. Go beyond the code to engage with the Drupal community as a contributing member and to do Drupal sustainably as a business. The Definitive Guide to Drupal 7 was written by the following team of expert Drupal authors: Benjamin Melançon, Jacine Luisi, Károly Négyesi, Greg Anderson, Bojhan Somers, Stéphane Corlosquet, Stefan Freudenberg, Michelle Lauer, Ed Carlevale, Florian Lorétan, Dani Nordin, Ryan Szrama, Susan Stewart, Jake Strawn, Brian Travis, Dan Hakimzadeh, Amye Scavarda, Albert Albala, Allie Micka, Robert Douglass, Robin Monks, Roy Scholten, Peter Wolanin, Kay VanValkenburgh, Greg Stout, Kasey Qynn Dolin, Mike Gifford, Claudina Sarahe, Sam Boyer, and Forest Mars, with contributions from George Cassie, Mike Ryan, Nathaniel Catchpole, and Dmitri Gaskin. For more information, check out the Drupaleasy podcast #63, in which author Benjamin Melançon discusses The Definitive Guide to Drupal 7 in great detail: http://drupaleasy.com/podcast/2011/08/drupaleasy-podcast-63-epic

Forge Your Future with Open Source VM (Vicky) Brasseur,2018-10-08 Free and open source is the foundation of software development, and it's built by people just like you. Discover the fundamental tenets that drive the movement. Take control of your career by selecting the right project to meet your professional goals. Master the language and avoid the pitfalls that typically ensnare new contributors. Join a community of like-minded people and change the world. Programmers, writers, designers, and everyone interested in software will make their mark through free and open source software contributions. Free and open source software is the default choice for the programming languages and technologies which run our world today, and it's all built and maintained by people just like you. No matter your skill level or area of expertise, with this book you will contribute to free and open source software projects. Using this practical approach you'll understand not only the mechanics of contributing, but also how doing so helps your career as well as the community. This book doesn't assume that you're a programmer, or even that you have prior experience with free and open source software. Learn what open source is, where it came from, and why it's important. Start on the right foot by mastering the structure and tools you need before you contribute. Choose the right project for you, amplifying the impact of your contribution. Submit your first contribution, whether it's code, writing, design, or community organising. Find out what to do when things don't go the way you expect. Discover how to start your own project and make it friendly and welcoming to contributors. Anyone can contribute! Make your mark today and help others while also helping yourself.

Embedded Computing Systems: Applications, Optimization, and Advanced Design Khalgui, Mohamed,2013-04-30 Embedded computing systems play an important and complex role in the functionality of electronic devices. With our daily routines becoming more reliant on electronics for personal and professional use, the understanding of these computing systems is crucial. Embedded Computing Systems: Applications, Optimization, and Advanced Design brings together theoretical and technical concepts of intelligent embedded control systems and their use in hardware and software architectures. By highlighting formal modeling, execution models, and optimal implementations, this reference source is essential for experts, researchers, and technical supporters in the industry and academia.

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Table of Contents FOSDEM

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which from what i can see looks like on the old motor black high speed yellow
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yaklasık 300 dv dkk dönecekdır bu dönmede motoru sogutmaya yetmıyecekdır velevkı
1500 veya 3000 devırde olsa sızın hz sınırınızda devrının 3 1 oranında dönmekde
uzun süre böyle calısıncada ısınmakda ve kavrulmaktadır bu durumda motora ayrıca
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the panel holding the circuit board for the system with the 2 screws removed
gently slide the circuit board out of the system leave the wires attached for now
we will disconnect the old blower motor in a subsequent step
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motor speed tap in your case the black motor wire to the fdr fan delay relay
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motor resistor is shown below the following diagram shows how the resistor is
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