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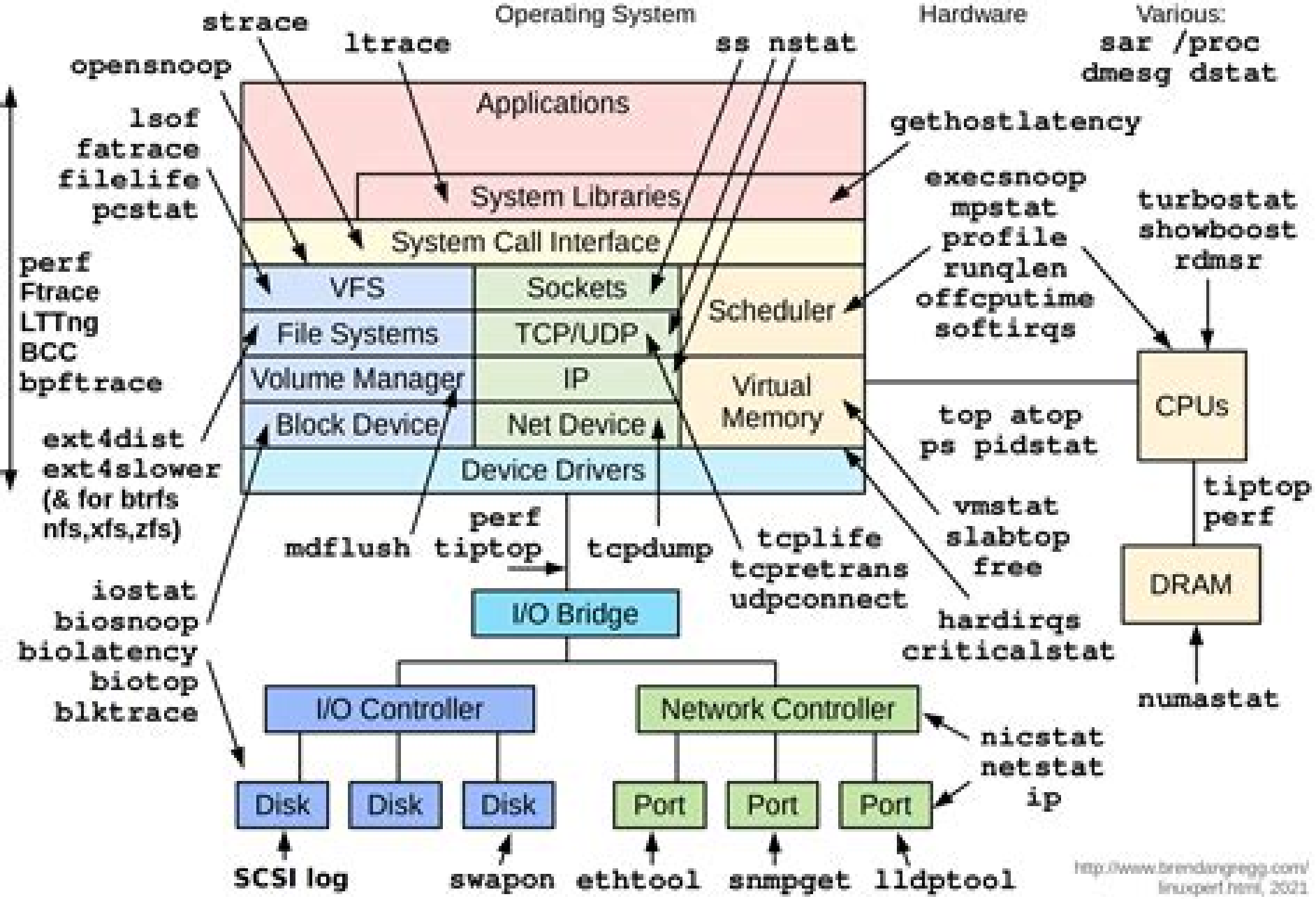

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Sasha Goldshtein

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identifying and addressing bottlenecks optimizing database queries enhancing response times and ensuring system reliability has never been more significant This comprehensive guide is specifically crafted to empower software engineers system architects and database administrators with the necessary tools and knowledge to effectively tackle performance challenges in modern software systems From profiling tools and advanced caching strategies to microservices architecture and query optimization this guide covers a wide array of topics essential for constructing and upholding high performance systems Whether you are grappling with sluggish database queries high latency in microservices or scalability issues this resource offers practical insights hands on techniques and real world examples to assist you in diagnosing analyzing and rectifying performance issues at every level of the system At the core of performance tuning lies the ability to pinpoint the root causes of inefficiency This guide delves into potent tools such as FlameGraphs PGAnalyze and AWS Performance Insights to aid in identifying bottlenecks within your system It explores detailed strategies for optimizing reads and writes denormalization indexing and query execution plans to ensure optimal database performance Beyond databases topics like distributed caching connection pooling and API gateways are covered providing a comprehensive view of performance optimization in cloud native and microservices architectures Moreover you will discover best practices for designing and scaling microservices maintaining consistency in distributed systems and employing advanced observability techniques to monitor and troubleshoot live systems This guide addresses both theoretical concepts and practical tools necessary for modern developers to guarantee the robustness resilience and scalability of their systems By the conclusion of this guide you will not only possess a profound understanding of how to approach and resolve performance issues but also gain valuable insights into designing systems that can scale efficiently with minimal latency and maximum throughput Whether you are optimizing databases constructing microservices or enhancing API performance this guide will serve as your indispensable companion in mastering performance engineering in today s fast paced software landscape **Systems Performance** Brendan Gregg,2014 The Complete Guide to Optimizing Systems Performance Written by the winner of the 2013 LISA Award for Outstanding Achievement in System Administration Large scale enterprise cloud and virtualized computing systems have introduced serious performance challenges Now internationally renowned performance expert Brendan Gregg has brought together proven methodologies tools and metrics for analyzing and tuning even the most complex environments Systems Performance Enterprise and the Cloud focuses on Linux R and Unix R performance while illuminating performance issues that are relevant to all operating systems You ll gain deep insight into how systems work and perform and learn methodologies for analyzing and improving system and application performance Gregg presents examples from bare metal systems and virtualized cloud tenants running Linux based Ubuntu R Fedora R CentOS and the illumos based Joyent R SmartOS TM and OmniTI OmniOS R He systematically covers modern systems performance including the traditional analysis of CPUs memory disks and networks and new areas including cloud computing and dynamic tracing This book also helps you

identify and fix the unknown unknowns of complex performance bottlenecks that emerge from elements and interactions you were not aware of The text concludes with a detailed case study showing how a real cloud customer issue was analyzed from start to finish Coverage includes Modern performance analysis and tuning terminology concepts models methods and techniques Dynamic tracing techniques and tools including examples of DTrace SystemTap and perf Kernel internals uncovering what the OS is doing Using system observability tools interfaces and frameworks Understanding and monitoring application performance Optimizing CPUs processors cores hardware threads caches interconnects and kernel scheduling Memory optimization virtual memory paging swapping memory architectures busses address spaces and allocators File system I O including caching Storage devices controllers disk I O workloads RAID and kernel I O Network related performance issues protocols sockets interfaces and physical connections Performance implications of OS and hardware based virtualization and new issues encountered with cloud computing Benchmarking getting accurate results and avoiding common mistakes This guide is indispensable for anyone who operates enterprise or cloud environments system network database and web admins developers and other professionals For students and others new to optimization it also provides exercises reflecting Gregg s extensive instructional experience Raspberry Pi □□□ □□□,2021-10-30 Ok Linux Linux QEMU 12 iT IoT Modern Maker Maker Linux Linux Raspberry Pi Arduino Ubuntu Linux Chapter 1 Ftrace eBPF Linux ftrace eBPF Linux Chapter 2 Linux Linux Maker Maker ADC Maker Chapter 3 GPIO GPIO GPIO Chapter 4 IRQ GPIO IRQ Chapter 1 workqueue softirq tasklet threaded IRQ IRQ Chatper 5 I2C I2C Chatper 6 I2C IIO ADC IIO Raspberry 4B Arduino Uno 3 3V Raspberry Pi 4B 5V Arduino Uno logic level shifter IIO TCRT5000 Arduino Uno Ok *Systems Performance, 2nd Edition* Brendan Gregg,2020 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 theyve 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

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