

# Performance Benchmarking of Application Monitoring Frameworks

Jan Waller



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# Performance Benchmarking Of Application Monitoring Frameworks

**Ying Liu**



## **Performance Benchmarking Of Application Monitoring Frameworks:**

**Performance Benchmarking of Application Monitoring Frameworks** Jan Waller, 2014-12-19 Application level monitoring of continuously operating software systems provides insights into their dynamic behavior helping to maintain their performance and availability during runtime Such monitoring may cause a significant runtime overhead to the monitored system depending on the number and location of used instrumentation probes In order to improve a system s instrumentation and to reduce the caused monitoring overhead it is necessary to know the performance impact of each probe While many monitoring frameworks are claiming to have minimal impact on the performance these claims are often not backed up with a detailed performance evaluation determining the actual cost of monitoring Benchmarks can be used as an effective and affordable way for these evaluations However no benchmark specifically targeting the overhead of monitoring itself exists Furthermore no established benchmark engineering methodology exists that provides guidelines for the design execution and analysis of benchmarks This thesis introduces a benchmark approach to measure the performance overhead of application level monitoring frameworks The core contributions of this approach are 1 a definition of common causes of monitoring overhead 2 a general benchmark engineering methodology 3 the MooBench micro benchmark to measure and quantify causes of monitoring overhead and 4 detailed performance evaluations of three different application level monitoring frameworks Extensive experiments demonstrate the feasibility and practicality of the approach and validate the benchmark results The developed benchmark is available as open source software and the results of all experiments are available for download to facilitate further validation and replication of the results **Live Trace Visualization for System**

**and Program Comprehension in Large Software Landscapes** Florian Fittkau, 2015-12-03 In many enterprises the number of deployed applications is constantly increasing Those applications often several hundreds form large software landscapes The comprehension of such landscapes is frequently impeded due to for instance architectural erosion personnel turnover or changing requirements Furthermore events such as performance anomalies can often only be understood in correlation with the states of the applications Therefore an efficient and effective way to comprehend such software landscapes in combination with the details of each application is required In this thesis we introduce a live trace visualization approach to support system and program comprehension in large software landscapes It features two perspectives a landscape level perspective using UML elements and an application level perspective following the 3D software city metaphor Our main contributions are 1 an approach named ExplorViz for enabling live trace visualization of large software landscapes 2 a monitoring and analysis approach capable of logging and processing the huge amount of conducted method calls in large software landscapes and 3 display and interaction concepts for the software city metaphor beyond classical 2D displays and 2D pointing devices Extensive lab experiments show that our monitoring and analysis approach elastically scales to large software landscapes while imposing only a low overhead on the productive systems Furthermore several controlled

experiments demonstrate an increased efficiency and effectiveness for solving comprehension tasks when using our visualization ExplorViz is available as open source software on [www.explorviz.net](http://www.explorviz.net) Additionally we provide extensive experimental packages of our evaluations to facilitate the verifiability and reproducibility of our results

*AI-Driven DevOps Decision-Making: Transforming Software Development Workflows with Intelligent Systems* Sumanth Tatineni,2024-03-22 This book provides a comprehensive exploration of the AI Driven DevOps Decision Making system a groundbreaking approach that leverages artificial intelligence to optimize decision making processes within DevOps workflows Drawing upon the foundational research and patent application the book delves deep into the innovative methodologies technical frameworks and real world applications of this AI driven system Beginning with the conceptual underpinnings of DevOps and the challenges of dynamic software development environments the book outlines how AI can revolutionize traditional workflows by providing real time insights predictive analytics and adaptive learning capabilities It provides an in depth understanding of the core components and algorithms of the system as well as its practical implementation across different stages of the DevOps lifecycle Each chapter combines theoretical knowledge with practical insights supported by case studies and examples that illustrate the tangible benefits of adopting this intelligent decision making framework The book also envisions the future of AI in DevOps highlighting opportunities for innovation and further research in optimizing software development practices By the end of this book readers will have a thorough understanding of how to integrate AI driven decision making tools within their DevOps environments ultimately leading to more efficient agile and reliable software development processes

**Oracle Embedded Programming and Application Development** Lakshman Bulusu,2010-08-03 Focusing on tried and true best practice techniques in cross technology based Oracle embedded programming this book provides authoritative guidance for improving your code compilation and execution Geared towards IT professionals developing Oracle based Web enabled applications in PL SQL Java C C NET Perl and PHP it covers application d

**The Sustainability Handbook, Volume 2** Mark Von Rosing,2025-06-27 The Sustainability Handbook provides a comprehensive and holistic understanding of sustainability bridging the gap between academic theory and business practices Global climate change poses enormous environmental challenges and societies across the world must adapt and innovate to further the goals of sustainability for present and future generations The private sector especially must find new ways of doing business to align their practices with the Sustainable Development Goals SDGs adopted by the international community Using a conceptually structured framework throughout the book examines the latest academic research to summarize what environmental social and economic sustainability actually means in different contexts Using numerous specific case studies and insights from industry leaders the book shows how to strategically integrate sustainability into the organization with extensive focus on policies incentives measures operations production consumption and lifecycle management Volume 2 explores the concept of Radical Sustainability within an enterprise and why it is needed

With examples from zero waste to eliminating use of rare earth resources triggering sustainable practices to cause related marketing and sustainability responsibility to external transparency over internal incidents this volume offers practical solutions for those who desire to progress from a Sustainable Strategy to an effective Sustainability Portfolio Management approach Underpinned by international research based evidence it explores associated trends and drivers within the marketplace and how innovative environmental social economic and governance aspects can be considered and solutions applied For researchers students and businesspeople at all levels and sectors this handbook is an essential reference of the latest sustainability tools and methodologies required to adapt and innovate towards sustainability Provides step by step guidance on key procedures and methodologies Presents chapters that begin with a graphical representation of how the topic fits within the larger framework Includes extensive coverage of sustainability related case studies and lessons learned

Generative AI: Foundations, Models and Applications Dr. K. VANITHA SIDAMBARANATHAN, Dr. R. SRIVIDHYA, Dr. P. EDITH LINDA, Dr. LINCE RACHEL VARGHESE, 2025-10-15 Generative AI Foundations Models and Applications provides a comprehensive exploration of one of the most transformative areas of artificial intelligence Designed for students researchers educators and professionals this book offers a balanced blend of theory models and real world use cases of generative AI The text begins by introducing the fundamentals of generative modeling covering the mathematical and conceptual underpinnings that make generative AI possible It then progresses into a detailed study of prominent models including Generative Adversarial Networks GANs Variational Autoencoders VAEs Diffusion Models Large Language Models LLMs and Multimodal Systems Beyond the foundations the book emphasizes the practical applications of generative AI across industries ranging from natural language processing computer vision and healthcare to education creative arts business innovation and scientific research Ethical considerations challenges and future trends are also discussed equipping readers to critically analyze the opportunities and risks of this rapidly evolving field With clear explanations case studies and an application driven perspective this book serves as both an academic resource and a practical guide for those seeking to understand and leverage generative AI in real world contexts

Trustworthy Cyber-Physical Systems Engineering Alexander Romanovsky, Fuyuki Ishikawa, 2016-10-03 From the Foreword Getting CPS dependability right is essential to forming a solid foundation for a world that increasingly depends on such systems This book represents the cutting edge of what we know about rigorous ways to ensure that our CPS designs are trustworthy I recommend it to anyone who wants to get a deep look at these concepts that will form a cornerstone for future CPS designs Phil Koopman Carnegie Mellon University Pittsburgh Pennsylvania USA Trustworthy Cyber Physical Systems Engineering provides practitioners and researchers with a comprehensive introduction to the area of trustworthy Cyber Physical Systems CPS engineering Topics in this book cover questions such as What does having a trustworthy CPS actually mean for something as pervasive as a global scale CPS How does CPS trustworthiness map onto existing knowledge and where do we need to know more How can we

mathematically prove timeliness correctness and other essential properties for systems that may be adaptive and even self healing How can we better represent the physical reality underlying real world numeric quantities in the computing system How can we establish reason about and ensure trust between CPS components that are designed installed maintained and operated by different organizations and which may never have really been intended to work together Featuring contributions from leading international experts the book contains sixteen self contained chapters that analyze the challenges in developing trustworthy CPS and identify important issues in developing engineering methods for CPS The book addresses various issues contributing to trustworthiness complemented by contributions on TCSP roadmapping taxonomy and standardization as well as experience in deploying advanced system engineering methods in industry Specific approaches to ensuring trustworthiness namely proof and refinement are covered as well as engineering methods for dealing with hybrid aspects

**Bottlerocket Linux for Container Platforms** William Smith,2025-07-24 Bottlerocket Linux for Container Platforms Bottlerocket Linux for Container Platforms is an authoritative guide to the emerging purpose built Linux distribution designed to run container workloads at scale The book begins with a comprehensive exploration of Bottlerocket s genesis in the evolving landscape of container optimized operating systems clearly situating its principles of immutability minimalism and security within the wider context of CoreOS Flatcar and Alpine Readers are led through the architectural decisions that shape Bottlerocket s reliability and robustness including its constrained package selection atomic update mechanisms and streamlined integrations with orchestrators such as Kubernetes AWS EKS and ECS Zooming in on practical deployment and operations the book delves into Bottlerocket s boot process partitioning strategy and immutable system architecture giving readers an in depth understanding of how to leverage its read only root filesystem and atomic upgrade model for secure scalable container infrastructure Detailed chapters address the full configuration lifecycle from TOML based declarative settings and API driven management to secure secrets handling and automated bootstrap workflows all while emphasizing rigorous access control and policy enforcement Security stands at the core of Bottlerocket and this book provides advanced coverage of attack surface reduction SELinux policy enforcement integrity verification and compliance ready logging Readers gain actionable insights into network and storage integration tailored for contemporary cloud environments as well as hands on techniques for observability troubleshooting and high performance engineering Forward looking discussions highlight Bottlerocket s future in the context of unikernels microVMs edge computing and autonomous operations making this book an essential resource for DevOps engineers platform architects and anyone driving the next wave of secure efficient container platforms

**The Ceph Handbook** Robert Johnson,2025-01-02 The Ceph Handbook Building and Managing Scalable Distributed Storage Systems is an essential resource for understanding and deploying Ceph a leading open source storage platform renowned for its scalability and reliability This comprehensive guide delves into the technical prowess of Ceph illustrating its capabilities in managing object block and file storage seamlessly From foundational concepts to advanced



serves as both a textbook and handbook on the benchmarking of systems and components used as building blocks of modern information and communication technology applications. It provides theoretical and practical foundations as well as an in-depth exploration of modern benchmarks and benchmark development. The book is divided into two parts: foundations and applications. The first part introduces the foundations of benchmarking as a discipline covering the three fundamental elements of each benchmarking approach: metrics, workloads, and measurement methodology. The second part focuses on different application areas, presenting contributions in specific fields of benchmark development. These contributions address the unique challenges that arise in the conception and development of benchmarks for specific systems or subsystems and they demonstrate how the foundations and concepts in the first part of the book are being used in existing benchmarks. Further, the book presents a number of concrete applications and case studies based on input from leading benchmark developers from consortia such as the Standard Performance Evaluation Corporation (SPEC) and the Transaction Processing Performance Council (TPC). Besides a number of updates in almost all chapters for this new edition, three chapters are added in Part II of the book: 1. Machine Learning and Artificial Intelligence to cater the growing need to evaluate and benchmark ML and AI systems; 2. Scalability of Networks and Systems focusing on novel metrics and techniques to evaluate scalability; and 3. PC Workstation Graphics and Network Benchmarks covering popular benchmarks like SYSmark, PCMark, Phoronix Test Suite, 3DMark, the Blender benchmark, and end-to-end network performance tools. Providing both practical and theoretical foundations as well as a detailed discussion of modern benchmarks and their development, the book is intended as a handbook for professionals and researchers working in areas related to benchmarking. It offers an up-to-date point of reference for existing work as well as latest results, research challenges, and future research directions. It also can be used as a textbook for graduate and postgraduate students studying any of the many subjects related to benchmarking. While readers are assumed to be familiar with the principles and practices of computer science as well as software and systems engineering, no specific expertise in any subfield of these disciplines is required.

**Efficient AI Solutions: Deploying Deep Learning with ONNX and CUDA** Peter Jones, 2025-01-12 Dive into the world of containers with *Mastering Docker: Containers From Development to Deployment*, your comprehensive guide to mastering Docker, the revolutionary technology that has reshaped software development and deployment. This expertly crafted book is designed for developers, DevOps professionals, and systems administrators who are familiar with the basics of Docker and looking to elevate their skills to the next level. Spanning from foundational concepts to complex advanced topics, this book covers the entire spectrum of Docker functionalities and best practices. Explore chapters dedicated to image creation, optimization, networking, data management, security, debugging, monitoring, and the pivotal role of Docker in Continuous Integration and Continuous Deployment (CI/CD) processes. Each chapter is meticulously structured to provide in-depth knowledge, practical tips, and best practices, ensuring you gain a comprehensive understanding of Docker's capabilities and how to leverage them in real-world scenarios. Whether



you aim to optimize your development workflows secure your containerized applications or implement scalable CI CD pipelines this book provides the insights and guidance needed to achieve proficiency in Docker operations Empower yourself to efficiently manage and deploy containerized applications with confidence Mastering Docker Containers From Development to Deployment is the essential resource for professionals seeking to harness the full potential of Docker in modern software environments A Simulation Framework for Function as a Service Manner, Johannes,2024-03-12 Bulgaria

International Monetary Fund. European Dept.,2016-11-10 This paper highlights Bulgaria s state owned enterprises SOEs sector and to assess its performance in a regional perspective A detailed and rich firm level dataset of state owned and private firms was compiled for this note to compare key performance indicators of SOEs to private firms in the same sector and to similar firms in Croatia and Romania for a regional comparison In some network industries such as energy SOEs are heavily loss making Large amounts of debt have been piled up notably in the energy and transport sectors which to the extent that it is classified outside the general government accounts can pose significant risk to public finances in the form of contingent liabilities if the SOEs run into financial difficulties SOE profitability and resource allocation efficiency largely lag private firms in the same sectors even when isolating SOEs engaged in competitive market activities and hence classified outside of general government Coupled with comparably poor output quality these challenges have the potential to impair competitiveness and productivity across the economy **Knowledge Management and Acquisition for Intelligent**

**Systems** Shiqing Wu,Wenli Yang,Muhammad Bilal Amin,Byeong-Ho Kang,Guandong Xu,2023-11-03 This book constitutes the refereed proceedings of the 19th Principle and Practice of Data and Knowledge Acquisition Workshop PKAW 2023 held in conjunction with the 20th Pacific Rim International Conference on Artificial Intelligence PRICAI 2023 in November 2023 in Jakarta Indonesia The 9 full papers and 2 short papers included in this volume were carefully reviewed and selected from 28 initial submissions They are organized in the topical section such as machine learning natural language processing and intelligent systems Database Systems for Advanced Applications Xin Wang,Maria Luisa Sapino,Wook-Shin Han,Amr El

Abbadi,Gill Dobbie,Zhiyong Feng,Yingxiao Shao,Hongzhi Yin,2023-04-13 The four volume set LNCS 13943 13944 13945 and 13946 constitutes the proceedings of the 28th International Conference on Database Systems for Advanced Applications DASFAA 2023 held in April 2023 in Tianjin China The total of 125 full papers along with 66 short papers are presented together in this four volume set was carefully reviewed and selected from 652 submissions Additionally 15 industrial papers 15 demo papers and 4 PhD consortium papers are included The conference presents papers on subjects such as model graph learning performance knowledge time recommendation representation attention prediction and network Quantitative Assessments of Distributed Systems Dario Bruneo,Salvatore Distefano,2015-04-08 Distributed systems employed in critical infrastructures must fulfill dependability timeliness and performance specifications Since these systems most often operate in an unpredictable environment their design and maintenance require quantitative evaluation of deterministic and

probabilistic timed models This need gave birth to an abundant literature devoted to formal modeling languages combined with analytical and simulative solution techniques The aim of the book is to provide an overview of techniques and methodologies dealing with such specific issues in the context of distributed systems and covering aspects such as performance evaluation reliability availability energy efficiency scalability and sustainability Specifically techniques for checking and verifying if and how a distributed system satisfies the requirements as well as how to properly evaluate non functional aspects or how to optimize the overall behavior of the system are all discussed in the book The scope has been selected to provide a thorough coverage on issues models and techniques relating to validation evaluation and optimization of distributed systems The key objective of this book is to help to bridge the gaps between modeling theory and the practice in distributed systems through specific examples

**BSD Systems and Administration** Richard Johnson, 2025-06-16 BSD Systems and Administration BSD Systems and Administration provides a comprehensive and meticulously structured exploration of the BSD family of operating systems encompassing FreeBSD OpenBSD NetBSD and DragonFly BSD Drawing on the rich historical legacy and robust architectural principles of BSD this book delivers in depth coverage ranging from foundational concepts such as kernel organization system modularity and the unique BSD licensing model to advanced topics like release engineering documentation standards and security branch management Readers are guided through the intricacies of installation platform compatibility bootstrapping processes initial configuration and baseline hardening ensuring a solid footing for both new and experienced system administrators Building upon this foundation the book delves into rigorous treatment of user and identity management system security networking and data integrity It offers authoritative guidance on authentication mechanisms privilege delegation filesystem security and advanced resource auditing Readers will find extensive coverage of cutting edge hardening techniques mandatory access controls secure networking firewalling encryption patch management and intrusion response The networking chapters dissect BSD's high performance stack interface configuration routing redundancy VPN deployment and core network service management enabling robust scalable and resilient infrastructure solutions The latter chapters emphasize modern operational challenges detailing software management via ports and packages virtualization with jails and hypervisors storage administration including ZFS and GEOM and comprehensive performance monitoring The book culminates in advanced topics and future trends such as BSD in cloud environments embedded systems cross platform integration DevOps automation and participation in the open source community Through its holistic and practical approach BSD Systems and Administration emerges as an indispensable reference for system professionals IT architects and anyone seeking mastery of BSD platforms in contemporary computing landscapes

**OECD Reviews of Health Systems: Latvia 2016** OECD, 2016-09-21 This review aims to support Latvia in continuing reform of its health system informed by international best practice

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