

Performance Benchmarking of Application Monitoring Frameworks

Jan Waller

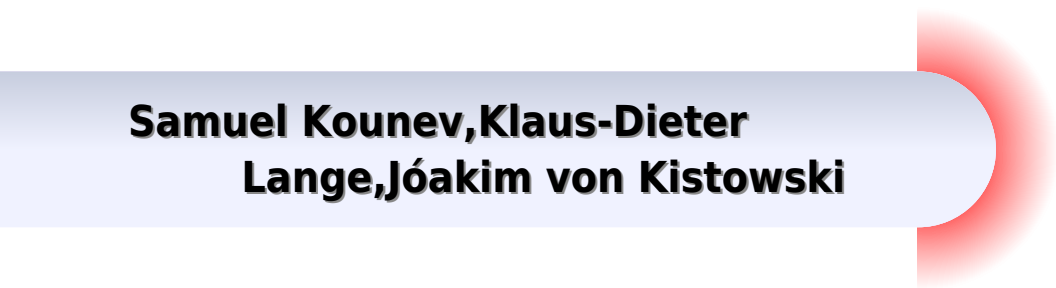


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Performance Benchmarking Of Application Monitoring Frameworks

**Samuel Kounev, Klaus-Dieter
Lange, Jóakim von Kistowski**



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 Additionally we provide extensive experimental packages of our evaluations to facilitate the verifiability and reproducibility of our results

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

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 configurations this book equips readers with the knowledge to harness Ceph s full potential ensuring fault tolerant and efficient data storage solutions aligned with modern enterprise needs Structured to assist both beginners and seasoned professionals the book covers key

aspects such as installation cluster management data protection and performance optimization Each chapter is meticulously crafted to offer practical insights and step by step instructions simplifying complex processes and fostering a deep understanding of Ceph s architecture By embracing both the theoretical and practical dimensions of Ceph this handbook serves as an authoritative reference guiding readers through the intricacies of building and maintaining robust storage infrastructures that are prepared to meet tomorrow s data challenges

Comprehensive Guide to Chromium Embedded Framework Richard Johnson,2025-05-30 Comprehensive Guide to Chromium Embedded Framework The Comprehensive Guide to Chromium Embedded Framework is the definitive resource for developers architects and technical decision makers seeking to master CEF the industry standard framework for embedding web technologies into desktop applications This authoritative volume opens with a thorough exploration of CEF s origins architecture and critical concepts placing today s engineering challenges within the context of its evolution Early chapters present supported platforms compatibility matrices and compelling real world use cases providing readers both foundational context and practical perspectives on CEF adoption Delving into the technical heart of CEF this guide walks readers from initial source acquisition through advanced build configurations covering all major operating systems and build ecosystems Readers benefit from hands on instructions for compilation customization continuous integration and troubleshooting empowering teams to craft robust maintainable and performant browser integrations The book further unpacks the process model lifecycle management embedding APIs multi browser scenarios and intricate details of event handling and crash recovery pairing architectural clarity with essential implementation advice No aspect of modern CEF development is overlooked Dedicated chapters analyze rendering strategies off screen and windowed modes GPU and high DPI support as well as deep integration techniques for JavaScript and native code interoperability Security is addressed in depth with focus on sandboxing process isolation CORS and mitigating advanced web threats The guide rounds out with proven practices in performance diagnostics cross platform deployment packaging automated updates compliance and vibrant case studies from both commercial and open source frontlines making this an indispensable reference for anyone striving to leverage the full potential of the Chromium Embedded Framework

Irrigation Management Dr. Martin Burton,2010 In many countries irrigated agriculture consumes a large proportion of the available water resources often over 70% of the total There is considerable pressure to release water for other uses and as a sector irrigated agriculture will have to increase the efficiency and productivity of its water use This is particularly true for manually operated irrigation systems managed by government agencies which provide water for a large number of users on small landholdings and represent 60% of the total irrigated area worldwide

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

Digital Technologies and Applications Saad Motahhir,Badre Bossoufi,2024-08-28 This book presents volume 3 of selected research papers presented at the fourth International Conference on Digital Technologies and Applications ICDTA 24 Highlighting the latest innovations in digital technologies as artificial intelligence Internet of Things embedded systems chatbot network technology digital transformation and their applications in several areas as Industry 4 0 sustainability energy transition and healthcare the book encourages and inspires researchers industry professionals and policymakers to put these methods into practice

Systems Benchmarking Samuel Kounev,Klaus-Dieter Lange,Jóakim von Kistowski,2025-03-21 This book 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

Enhancing Automated Decision-Making Through AI Hai-Jew, Shalin, 2024-12-05 Computational capabilities bring with them the advantages of cold logic precision speed data omniscience mass data processing capabilities multimodality enriched deployments and efficiencies With these many advantages people seek to offload work to machines Now with the major advances in artificial intelligence humanity is moving closer to handing over complex decision making to machines without humans in the direct loop Enhancing Automated Decision Making Through AI explores the processes of designing and deploying systems for automated decision making It also considers the implications of automated decision making informed by AI which can be unpredictable Covering topics such as agriculture disaster detection and tumor detection this book is an excellent resource for engineers systems designers instructors graduate and postgraduate students and more

A Framework of Human Systems Engineering Holly A. H. Handley, Andreas Tolk, 2021-01-27 Explores the breadth and versatility of Human Systems Engineering HSE practices and illustrates its value in system development A Framework of Human Systems Engineering Applications and Case Studies offers a guide to identifying and improving methods to integrate human concerns into the conceptualization and design of systems With contributions from a panel of noted experts on the topic the book presents a series of Human Systems Engineering HSE applications on a wide range of topics interface design training requirements personnel capabilities and limitations and human task allocation Each of the book s chapters present a case study of the application of HSE from different dimensions of socio technical systems The examples are organized using a socio technical system framework to reference the applications across multiple system types and domains These case studies are based in real world examples and highlight the value of applying HSE to the broader engineering community This important book Includes a proven framework with case studies to different dimensions of practice including domain system type and system maturity Contains the needed tools and methods in order to integrate human concerns within systems Encourages the use of Human Systems Engineering throughout the design process Provides examples that cross traditional system engineering sectors and identifies a diverse set of human engineering practices Written for systems engineers human factors engineers and HSI practitioners A Framework of Human Systems Engineering Applications and Case Studies provides the information needed for the better integration of human and systems and early resolution of issues based on human constraints and limitations

Energy Management in Plastics Processing Robin Kent, 2018-07-06 Energy Management in Plastics Processing Strategies Targets Techniques and Tools Third Edition addresses energy benchmarking and site surveys how to understand energy supplies and bills and how to measure and manage energy usage and carbon footprinting The book s approach highlights the need to reduce the kWh kg of materials processed and the resulting permanent reductions in consumption and costs Every topic is covered in a 2 page spread providing the reader with clear actions and key tips for success This revised

third edition covers new developments in energy management power supply considerations automation assembly operations water footprinting and transport considerations and more Users will find a practical workbook that not only shows how to reduce energy consumption in all the major plastics shaping processes moulding extrusion forming but also provides tactics that will benefit other locations in plants e g in factory services and nonmanufacturing areas Enables plastics processors in their desire to institute an effective energy management system both in processing and elsewhere in the plant Provides a holistic perspective shining a light on areas where energy management methods may have not been previously considered Acts as a roadmap to help companies move towards improved sustainability and cost savings

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