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"sysperf" book) on the performance of computing systems, and this year I'm excited to be releasing the second edition. The first edition was successful, selling over 10k copies and becoming required or recommended reading at many companies (and even mentioned in job descriptions).

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Welcome to Systems Performance: Enterprise and the Cloud! This book is about the performance of operating systems and of applications from operating system context, and it is written for both enterprise and cloud computing environments. My aim is to help you get the most out of your systems.

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company ' s objectives and strategic goals.

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Brendan Gregg. Pearson Education, 2014 - Computers - 735 pages. 1 Review. Acknowledgments xxxiii About the Author xxxv Chapter 1: Introduction 1 1.1 Systems Performance 1 1.2 Roles 2 1.3 Activities 3 1.4 Perspectives 4 1.5 Performance Is Challenging 4 1.6 Latency 6 1.7 Dynamic Tracing 7 1.8 Cloud ...

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Establish performance baselines on network, system, application, and end-point devices. This will greatly improve your monitoring abilities to identify unusual or unsecured behaviors. Start researching Data Loss Protection (DLP) technologies and the skills required to enhance your control of outbound traffic to ensure security compliance.

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also supports financial planning and analysis (FP&A).

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before, and to refresh and update advanced readers' knowledge. Gregg illuminates the latest tools and techniques, including extended BPF, showing how to get the most out of your systems in cloud, web, and large-scale enterprise environments. He covers these and other key topics: 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 Fully updated for current Linux operating systems and

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and finance in a digestible blueprint for developing and implementing performance management in order to improve revenue growth and profit margins.

The success of information backup systems does not rest on IT administrators alone. Rather, a well-designed backup system comes about only when several key factors coalesce—business involvement, IT acceptance, best practice designs, enterprise software, and reliable hardware. Enterprise Systems Backup and Recovery: A Corporate Insurance Policy provides organizations with a comprehensive understanding of the principles and features involved in effective enterprise backups. Instead of focusing on any individual backup product,

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this book recommends corporate procedures and policies that need to be established for comprehensive data protection. It provides relevant information to any organization, regardless of which operating systems or applications are deployed, what backup system is in place, or what planning has been done for business continuity. It explains how backup must be included in every phase of system planning, development, operation, and maintenance. It also provides techniques for analyzing and improving current backup system performance. After reviewing the concepts in this book, organizations will be able to answer these questions with respect to their enterprise: What features and functionality should be expected in a backup

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environment? What terminology and concepts are unique to backup software, and what can be related to other areas? How can a backup system be monitored successfully? How can the performance of a backup system be improved? What features are just "window dressing" and should be ignored, as opposed to those features that are relevant? Backup and recovery systems touch on just about every system in an organization. Properly implemented, they can provide an enterprise with greater assurance that its information is safe. By utilizing the information in this book, organizations can take a greater step toward improving the security of their data and preventing the devastating loss of data and business revenue that can

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occur with poorly constructed or inefficient systems.

Poorly performing enterprise applications are the weakest links in a corporation's management chain, causing delays and disruptions of critical business functions. This groundbreaking book frames enterprise application performance engineering not as an art but as applied science built on model-based methodological foundation. The book introduces queuing models of enterprise application that visualize, demystify, explain, and solve system performance issues. Analysis of these models will help to discover and clarify unapparent connections and correlations among workloads, hardware architecture, and software

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- How to:
 - Define and document comprehensive non-functional requirements for any software system
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 - Patterns for defensive software designs in common software scenarios that promote operability

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and availability

- Implement the right level of reporting, monitoring, and trending for highly available production software systems

Patterns for:

- Software designs that support simpler and more efficient operation in a production environment
- Software design that support high-performance and scalability

Strategies and Techniques for:

- Techniques for managing and troubleshooting during a production crisis
- Strategies for resisting project pressure to compromise on quality or completeness of non-functional activities in the software cycle

This book presents, as a how-to guide, a compelling methodology for improving the operational and financial

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performance of a firm. The book focuses on the optimum utilization of capital assets and human resources to support the firm's business strategy and, therefore, gain a competitive advantage. It complements publications on the Balanced Scorecard by providing rather detailed sets of performance metrics applicable to Supply Chain, Customer Relationship Management, and Intellectual Capital improvement efforts. Managers involved in business improvement programs will benefit from the development of performance metrics for intellectual capital. MBA students will find especially useful the concise description of the best practices and issues affecting enterprise performance today. Reviews

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Finally, consideration for non-financial assets handled in a non-financial manner. A coming together of several current management concepts, along with a way to measure and evaluate their value to the company. A useful reference for building, implementing and evaluating a plan of improved efficiency. L. Sehr RA/AVP, Bank of America, San Jose, California This book provides a good overview of important financial and process redesign concepts that can influence business performance. This resource covers a broad range of ideas from continuous improvement, business strategies, balanced scorecards and value measurement tools. Non-financial persons will find this especially helpful, as information is presented in a non-technical

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functional aspects of an enterprise, I would recommend it for use in an undergraduate strategic management or capstone course in business administration program. The book would be particularly useful in an MBA course. George Guim Ed.D. Head of Business Administration Department The National Hispanic University, San Jose, California

Learn how Lean IT can help companies deliver better customerservice and value Lean Enterprise Systems effectively demonstrates how the techniquesderived from Lean Manufacturing, combined with the thoughtfulapplication of information technology, can help all enterprisesimprove business performance and

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add significant value for their customers. The author also demonstrates how the basic concepts of Lean Manufacturing can be applied to create agile and responsive Lean IT. The book is divided into three parts that collectively explore how people, processes, and technology combine forces to facilitate continuous improvement:

- * Part One: Building Blocks of the Lean Enterprise sets forth the essentials of Lean. Readers discover where, when, and how Lean IT adds substantial value to the Lean Enterprise through integrated processes of planning, scheduling, execution, control, and decisionmaking across the full spectrum of operations.
- * Part Two: Building Blocks of Information Systems explores the primary components of an

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enterprise information system and how these components may be integrated to improve the flow of information supporting value streams. Readers learn how information systems help organize and deliver knowledge when and where it's needed. * Part Three: Managing Change with IT demonstrates how the skillful combination of process and information technology improvements empowers people to continuously improve the Lean Enterprise. Readers develop the skills to exploit emerging information technology tools and change management methods, crafting a Lean IT framework-reducing waste, complexity, and lead time-while adding measurable value. Executives, managers, and improvement teams

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across a broad range of industries, as well as IT professionals, can apply the techniques described in this publication to improve performance, add value, and create competitive advantage. The book's clear style and practical focus also makes it an excellent textbook for upper-level undergraduate and graduate courses in business, operations management, and business information systems.

Addresses the field of enterprise systems, covering progressive technologies, leading theories, and advanced applications.

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