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Brendan Gregg's Blog home.
Systems Performance:

Enterprise and the Cloud,
2nd Edition. 15 Jul 2020.

Eight years ago I wrote
Systems Performance:

Enterprise and the Cloud
(aka the "sysperf" book) on
the performance of computing
systems, and this year I'm
excited to be releasing the
second edition.

~~Systems Performance:~~

~~Enterprise and the Cloud,
2nd Edition~~

Now, internationally
renowned performance expert
Brendan Gregg has brought
together proven
methodologies, tools, and

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metrics for analyzing and tuning even the most complex environments. Systems Performance: Enterprise and the Cloud focuses on Linux® and Unix® performance, while illuminating performance issues that are relevant to all operating systems.

~~Systems Performance:
Enterprise and the Cloud:
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This book is primarily for system administrators, support staff, operators, and devops in enterprise and cloud environments. It is also a useful reference for developers, database administrators, and web server administrators who

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would like to understand
operating system and
application performance.

~~Systems Performance Book~~
~~Brendan Gregg~~

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

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~~Illuminating~~ performance issues that are relevant to all operating systems.

~~Systems Performance: Enterprise and the Cloud~~ by
~~Brendan Gregg~~

Brendan Gregg, lead performance engineer at Joyent, analyzes performance and scalability throughout the software stack. As performance lead and kernel engineer at Sun Microsystems (and later Oracle), his work included developing the ZFS L2ARC, a pioneering file system technology for improving performance using flash memory.

~~Systems Performance: Enterprise and the Cloud~~

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~~Enterprise and the Cloud
eBook: Gregg ...~~

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Performance: Enterprise and
the Cloud by Brendan Gregg
(Paperback, 2013) at the
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Enterprise and the Cloud by
Brendan ...~~

Systems performance is an
important skill for all
computer users, whether
you're trying to understand
why your laptop is slow or
optimizing the performance
of a large-scale compute

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environment (for example,
Facebook's datacenters or
the Netflix cloud). Systems
performance is the study of
application, operating
system, kernel, and hardware
...

~~Systems Performance 2nd
Edition Book — Brendan Gregg~~
Sep 04, 2020 systems
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Brendan Gregg's Blog home.

BPF binaries: BTF, CO-RE,
and the future of BPF perf
tools. 04 Nov 2020. Two new
technologies, BTF and CO-RE,
are paving the way for BPF
to become a billion-dollar
industry. Right now there
are many BPF (eBPF) startups
building networking,
security, and performance
products (and more in
stealth), yet requiring ...

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and the future of BPF perf
tools~~

Deirdré Straughan has a
youtube playlist named
Brendan Gregg's Best, which

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has many of my talks (many of which she filmed). My plenary session at USENIX/LISA 2013: Blazing Performance with Flame Graphs (youtube, slideshare, usenix) (90 mins). A talk for BayLISA October 2013 to describe and launch the Systems Performance book (60 mins).

~~Brendan Gregg's Homepage~~
Buy Systems Performance 2 by Gregg, Brendan (ISBN: 9780136820154) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

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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® and Unix® performance, while illuminating performance issues that are relevant to all operating systems.

~~Amazon.com: Systems Performance: Enterprise and the Cloud ...~~

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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® and Unix®
performance, while
illuminating performance
issues that are relevant to
all operating systems.

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~~Systems Performance:
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World-renowned systems

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performance expert Brendan Gregg summarizes relevant operating system, hardware, and application theory to quickly get professionals up to speed even if they've never analyzed performance before, and to refresh and update advanced readers' knowledge.

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Brendan: 9780136820154:
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Large-scale enterprise, cloud, and virtualised computing systems have introduced serious performance challenges. Now, internationally renowned performance expert Brendan Gregg has brought together

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proven methodologies, tools,
and metrics for analysing
and tuning even the most
complex environments.

"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:
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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®,
Fedora®, CentOS, and the
illumos-based Joyent®
SmartOSTM and OmniTI
OmniOS®. He systematically
covers modern systems
performance, including the
"traditional" analysis of
CPUs, memory, disks, and

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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."--Back cover.

The Complete Guide to
Optimizing Systems
Performance Written by the
winner of the 2013 LISA
Award for Outstanding
Achievement in System

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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® and Unix® performance, while illuminating performance issues that are relevant to all operating systems. You'll gain deep insight into how systems work and

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Brendan Gregg, 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®, Fedora®, CentOS, and the illumos-based Joyent® SmartOS™ and OmniTI OmniOS®. 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:

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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

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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

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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.

BPF and related observability tools give software professionals unprecedented visibility into software, helping them

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analyze operating system and application performance, troubleshoot code, and strengthen security. BPF Performance Tools: Linux System and Application Observability is the industry's most comprehensive guide to using these tools for observability. Brendan Gregg, author of the industry's definitive guide to system performance, introduces powerful new methods and tools for doing analysis that leads to more robust, reliable, and safer code. This authoritative guide: Explores a wide spectrum of software and hardware targets Thoroughly

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Brendan Gregg
covers open source BPF tools from the Linux Foundation iovisor project's bcc and bpftrace repositories Summarizes performance engineering and kernel internals you need to understand Provides and discusses 150+ bpftrace tools, including 80 written specifically for this book: tools you can run as-is, without programming – or customize and develop further, using diverse interfaces and the bpftrace front-end You'll learn how to use BPF (eBPF) tracing tools to analyze CPUs, memory, disks, file systems, networking, languages, applications, containers,

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hypervisors, security, and the Linux kernel. You'll move from basic to advanced tools and techniques, producing new metrics, stack traces, custom latency histograms, and more. It's like having a superpower: with Gregg's guidance and tools, you can analyze virtually everything that impacts system performance, so you can improve virtually any Linux operating system or application.

Systems performance analysis and tuning lead to a better end-user experience and lower costs, especially for cloud computing environments that charge by the OS

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instance. Systems

Performance, 2nd Edition covers concepts, strategy, tools, and tuning for operating systems and applications, using Linux-based operating systems as the primary example. World-renowned systems performance expert Brendan Gregg summarizes relevant operating system, hardware, and application theory to quickly get professionals up to speed even if they've never analyzed performance before, and to refresh and update advanced readers' knowledge. Gregg illuminates the latest tools and techniques, including extended BPF, showing how to

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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

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systems and environments,
Systems Performance, 2nd
Edition addresses issues
that apply to any computer
system. The book will be a
go-to reference for many
years to come and
recommended reading at many
tech companies, like its
predecessor first edition.

The Oracle Solaris DTrace
feature revolutionizes the
way you debug operating
systems and applications.
Using DTrace, you can
dynamically instrument
software and quickly answer
virtually any question about
its behavior. Now, for the
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comprehensive, authoritative

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guide to making the most of
DTrace in any supported UNIX
environment--from Oracle
Solaris to OpenSolaris, Mac
OS X, and FreeBSD. Written
by key contributors to the
DTrace community, DTrace
teaches by example,
presenting scores of
commands and easy-to-adapt,
downloadable D scripts.
These concise examples
generate answers to real and
useful questions, and serve
as a starting point for
building more complex
scripts. Using them, you can
start making practical use
of DTrace immediately,
whether you're an
administrator, developer,
analyst, architect, or

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support professional. The authors fully explain the goals, techniques, and output associated with each script or command. Drawing on their extensive experience, they provide strategy suggestions, checklists, and functional diagrams, as well as a chapter of advanced tips and tricks. You'll learn how to Write effective scripts using DTrace's D language Use DTrace to thoroughly understand system performance Expose functional areas of the operating system, including I/O, filesystems, and protocols Use DTrace in the application and database

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Development process Identify
and fix security problems
with DTrace Analyze the
operating system kernel
Integrate DTrace into source
code Extend DTrace with
other tools This book will
help you make the most of
DTrace to solve problems
more quickly and
efficiently, and build
systems that work faster and
more reliably.

Written with computer
scientists and engineers in
mind, this book brings
queueing theory decisively
back to computer science.

Build your expertise in the
BPF virtual machine in the

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Linux kernel with this practical guide for systems engineers. You'll not only dive into the BPF program lifecycle but also learn to write applications that observe and modify the kernel's behavior; inject code to monitor, trace, and securely observe events in the kernel; and more. Authors David Calavera and Lorenzo Fontana help you harness the power of BPF to make any computing system more observable. Familiarize yourself with the essential concepts you'll use on a day-to-day basis and augment your knowledge about performance optimization, networking, and security.

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Then see how it all comes together with code examples in C, Go, and Python. Write applications that use BPF to observe and modify the Linux kernel's behavior on demand. Inject code to monitor, trace, and observe events in the kernel in a secure way—no need to recompile the kernel or reboot the system. Explore code examples in C, Go, and Python. Gain a more thorough understanding of the BPF program lifecycle.

Understand the fundamental factors of data storage system performance and master an essential

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analytical skill using block trace via applications such as MATLAB and Python tools. You will increase your productivity and learn the best techniques for doing specific tasks (such as analyzing the IO pattern in a quantitative way, identifying the storage system bottleneck, and designing the cache policy). In the new era of IoT, big data, and cloud systems, better performance and higher density of storage systems has become crucial. To increase data storage density, new techniques have evolved and hybrid and parallel access techniques—together with

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pecially designed IO scheduling and data migration algorithms—are being deployed to develop high-performance data storage solutions. Among the various storage system performance analysis techniques, IO event trace analysis (block-level trace analysis particularly) is one of the most common approaches for system optimization and design. However, the task of completing a systematic survey is challenging and very few works on this topic exist. Block Trace Analysis and Storage System Optimization brings together theoretical analysis (such

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as IO qualitative properties and quantitative metrics) and practical tools (such as trace parsing, analysis, and results reporting perspectives). The book provides content on block-level trace analysis techniques, and includes case studies to illustrate how these techniques and tools can be applied in real applications (such as SSHD, RAID, Hadoop, and Ceph systems). What You'll Learn Understand the fundamental factors of data storage system performance Master an essential analytical skill using block trace via various applications Distinguish how the IO

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Brendan Gregory
pattern differs in the block
level from the file level
Know how the sequential HDFS
request becomes "fragmented"
in final storage devices
Perform trace analysis tasks
with a tool based on the
MATLAB and Python platforms
Who This Book Is For IT
professionals interested in
storage system performance
optimization: network
administrators, data storage
managers, data storage
engineers, storage network
engineers, systems engineers

"If this book had been
available to
Healthcare.gov's
contractors, and they read
and followed its life cycle

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performance processes, there would not have been the enormous problems apparent in that application. In my 40+ years of experience in building leading-edge products, poor performance is the single most frequent cause of the failure or cancellation of software-intensive projects. This book provides techniques and skills necessary to implement performance engineering at the beginning of a project and manage it throughout the product's life cycle. I cannot recommend it highly enough."

- Don Shafer, CSDP,
Technical Fellow, Athens
Group, LLC Poor performance

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is a frequent cause of software project failure. Performance engineering can be extremely challenging. In Foundations of Software and System Performance Engineering, leading software performance expert Dr. André Bondi helps you create effective performance requirements up front, and then architect, develop, test, and deliver systems that meet them. Drawing on many years of experience at Siemens, AT&T Labs, Bell Laboratories, and two startups, Bondi offers practical guidance for every software stakeholder and development team participant. He shows you

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how to define and use metrics; plan for diverse workloads; evaluate scalability, capacity, and responsiveness; and test both individual components and entire systems.

Throughout, Bondi helps you link performance engineering with everything else you do in the software life cycle, so you can achieve the right performance—now and in the future—at lower cost and with less pain. This guide will help you

- Mitigate the business and engineering risk associated with poor system performance
- Specify system performance requirements in business and engineering terms
- Identify

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metrics for comparing performance requirements with actual performance • Verify the accuracy of measurements • Use simple mathematical models to make predictions, plan performance tests, and anticipate the impact of changes to the system or the load placed upon it • Avoid common performance and scalability mistakes • Clarify business and engineering needs to be satisfied by given levels of throughput and response time • Incorporate performance engineering into agile processes • Help stakeholders of a system make better performance-

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related decisions • Manage stakeholders' expectations about system performance throughout the software life cycle, and deliver a software product with quality performance

André B. Bondi is a senior staff engineer at Siemens Corp., Corporate Technologies in Princeton, New Jersey. His specialties include performance requirements, performance analysis, modeling, simulation, and testing. Bondi has applied his industrial and academic experience to the solution of performance issues in many problem domains. In addition to holding a doctorate in computer

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Brendan Gregg
science and a master's in
statistics, he is a
Certified Scrum Master.

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