

# *Designing And Tuning High Performance Fuel Injection Systems*

*There are three parts to tuning an Oracle database: data modeling, SQL code tuning and physical database configuration. A data model contains tables and relationships between tables. Tuning a data model involves normalization and de-normalization. Different approaches are required depending on the application, such as OLTP or a Data*

*Warehouse. Inappropriate database design can make SQL code impossible to tune. Poor data modeling can have a most profound effect on database performance since all SQL code is constructed from the data model. Poorly written SQL code is often a culprit of performance problems and is expensive to rectify. However, tuning of SQL code is generally cheaper than changing the data model. SQL code tends to be contained inside independent blocks within applications or stored procedures. Physical database tuning involves hardware resource usage, networking and various other Oracle things such as*

configuration and file distribution. Physical configuration is often a culprit of poor performance where Oracle is installed with defaults, and never altered by an expert. \*Includes all three aspects of Oracle database tuning: data model tuning, SQL & PL/SQL code tuning, physical plus configuration tuning \*Contains experienced guidance and real-world examples using large datasets \*Emphasizes development as opposed to operating system perspective Transform an average car or truck into a turbocharged high performance street machine. A handbook on theory and application of

*turbocharging for street and high-performance use, this book covers high performance cars and trucks. This comprehensive guide features sections on theory, indepth coverage of turbocharging components, fabricating systems, engine building and testing, aftermarket options and project vehicles. Spring 5.0 brings major advancements in the rich APIs provided by the Spring framework and thus creates a need for developers to master its tools and techniques to achieve high-performing applications. This book will help you improve the speed of your code and optimize the performance of your apps.*

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*In 2007 The Design, Automation and Test in Europe (DATE) conference celebrated its tenth anniversary. As a tribute to the chip and system-level design and design technology community, this book presents a compilation of the three most influential papers of each year. This provides an excellent historical overview of the evolution of a domain that contributed substantially to the growth and competitiveness of the circuit electronics and systems industry.*

*Oracle High Performance Tuning for 9i and 10g Optimization, Backups, Replication, and More Design, Fabrication, Installation, and Tuning*

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*of High-Performance Street Turbocharger  
Systems*

*High Performance Parallel Runtimes*

*Attaining High Performance Communications*

*IBM Business Process Manager V8.5 Performance  
Tuning and Best Practices*

Technological Advances and Problems of High  
Performance Communications An ecosystem of  
solutions along a stack of technology layers  
Cohesively collecting state-of-the-art contributions  
from leading researchers in industry, national  
laboratories, and academia, Attaining High  
Performance Communications: A Vertical Approach

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discusses various issues pertaining to high performance communications in a particular layer of a vertical stack. It explores efficient interconnection hardware, the architectural aspects of network adapters and their integration with processor cores, the design of scalable and robust high performance end-to-end communications services and protocols, and system services and tools for new multi-core environments. No single solution applied at one particular layer can help applications solve all performance-related issues with communication services. Instead, this book

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shows that a coordinated effort is needed among the layers. It covers many different types of technologies and layers across the stack, from the architectural features of the hardware, through the protocols and their implementation in operating system kernels, to the manner in which application services and middleware are using underlying platforms. The book also describes key developments in high-end platforms, high performance interconnection fabrics and communication libraries, and multi- and many-core systems. This volume addresses the challenges

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involved in emerging types of communications applications, platforms, and services. Examining each layer in the vertical stack, it illustrates how to eliminate bottlenecks and provide optimization opportunities.

As Web-based systems and e-commerce carry businesses into the 21st century, databases are becoming workhorses that shoulder each and every online transaction. For organizations to have effective 24/7 Web operations, they need powerhouse databases that deliver at peak performance-all the time. High Performance Web

Databases: Design, Development, and  
As users come to depend on MySQL, they find that they have to deal with issues of reliability, scalability, and performance--issues that are not well documented but are critical to a smoothly functioning site. This book is an insider's guide to these little understood topics. Author Jeremy Zawodny has managed large numbers of MySQL servers for mission-critical work at Yahoo!, maintained years of contacts with the MySQL AB team, and presents regularly at conferences. Jeremy and Derek have spent months experimenting,

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interviewing major users of MySQL, talking to MySQL AB, benchmarking, and writing some of their own tools in order to produce the information in this book. In High Performance MySQL you will learn about MySQL indexing and optimization in depth so you can make better use of these key features. You will learn practical replication, backup, and load-balancing strategies with information that goes beyond available tools to discuss their effects in real-life environments. And you'll learn the supporting techniques you need to carry out these tasks, including advanced configuration,

benchmarking, and investigating logs. Topics include: A review of configuration and setup options  
Storage engines and table types Benchmarking  
Indexes Query Optimization Application Design  
Server Performance Replication Load-balancing  
Backup and Recovery Security

How can you realize MySQL's full power? With High Performance MySQL, you'll learn advanced techniques for everything from setting service-level objectives to designing schemas, indexes, and queries to tuning your server, operating system, and hardware to achieve your platform's full potential.

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This guide also teaches database administrators safe and practical ways to scale applications through replication, load balancing, high availability, and failover. Updated to reflect recent advances in cloud- and self-hosted MySQL, InnoDB performance, and new features and tools, this revised edition helps you design a relational data platform that will scale with your business. You'll learn best practices for database security along with hard-earned lessons in both performance and database stability. Dive into MySQL's architecture, including key facts about its storage engines Learn how server

configuration works with your hardware and deployment choices Make query performance part of your software delivery process Examine enhancements to MySQL's replication and high availability Compare different MySQL offerings in managed cloud environments Explore MySQL's full stack optimization from application-side configuration to server tuning Turn traditional database management tasks into automated processes

High Performance Spark

The Design of High Performance Mechatronics -

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2nd Revised Edition

Advanced Tuning

How to Design and Install High Performance Car  
Stereo

High-Performance Subaru Builder's Guide

Dyno Testing and Tuning

Packed with practical examples, this book looks at a different aspect of performance tuning in each chapter and shows you how to apply them to their existing Java applications. Anyone with an interest in learning more and improving the performance of Java-based technology in general, all the way to WildFly in particular, will find this book useful. Looks at the combustion basics of fuel injection engines and offers information on such topics as VE equation, airflow estimation, setups

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and calibration, creating timing maps, and auxiliary output controls. Drawing on a wealth of knowledge and experience and a background of more than 1,000 magazine articles on the subject, engine control expert Jeff Hartman explains everything from the basics of engine management to the building of complicated project cars. Hartman has substantially updated the material from his 1993 MBI book Fuel Injection (0-879387-43-2) to address the incredible developments in automotive fuel injection technology from the past decade, including the multitude of import cars that are the subject of so much hot rodding today. Hartman's text is extremely detailed and logically arranged to help readers better understand this complex topic. Design and configure SQL Server instances and databases in support of high-throughput applications that are mission-critical and provide consistent response times in the face of variations in user numbers and



query volumes. Learn to configure SQL Server and design your databases to support a given instance and workload. You'll learn advanced configuration options, in-memory technologies, storage and disk configuration, and more, all toward enabling your desired application performance and throughput. Configuration doesn't stop with implementation. Workloads change over time, and other impediments can arise to thwart desired performance. High Performance SQL Server covers monitoring and troubleshooting to aid in detecting and fixing production performance problems and minimizing application outages. You'll learn a variety of tools, ranging from the traditional wait analysis methodology to the new query store, and you'll learn how improving performance is really an iterative process. High Performance SQL Server is based on SQL Server 2016, although most of its content can be applied to prior versions of the

product. This book is an excellent complement to performance tuning books focusing on SQL queries, and provides the other half of what you need to know by focusing on configuring the instances on which mission-critical queries are executed. Covers SQL Server instance-configuration for optimal performance Helps in implementing SQL Server in-memory technologies Provides guidance toward monitoring and ongoing diagnostics What You Will Learn Understand SQL Server's database engine and how it processes queries Configure instances in support of high-throughput applications Provide consistent response times to varying user numbers and query volumes Design databases for high-throughput applications with focus on performance Record performance baselines and monitor SQL Server instances against them Troubleshoot and fix performance problems Who This Book Is For SQL Server database administrators,

developers, and data architects. The book is also of use to system administrators who are managing and are responsible for the physical servers on which SQL Server instances are run.

WildFly Performance Tuning

PostgreSQL 10 High Performance

Chassis Engineering

Building the Infrastructure for Digital Signatures and Encryption

Essential Knowledge for Front-End Engineers

Design, Development, and Deployment

**Automotive technology.**

**Architecting High Performing, Scalable  
and Available Enterprise Web**

**Applications provides in-depth insights**

**into techniques for achieving desired scalability, availability and performance quality goals for enterprise web applications. The book provides an integrated 360-degree view of achieving and maintaining these attributes through practical, proven patterns, novel models, best practices, performance strategies, and continuous improvement methodologies and case studies. The author shares his years of experience in application security,**

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enterprise application testing, caching techniques, production operations and maintenance, and efficient project management techniques. Delivers holistic view of scalability, availability and security, caching, testing and project management Includes patterns and frameworks that are illustrated with end-to-end case studies Offers tips and troubleshooting methods for enterprise application testing, security, caching, production

operations and project management  
Exploration of synergies between  
techniques and methodologies to achieve  
end-to-end availability, scalability,  
performance and security quality  
attributes 360-degree viewpoint  
approach for achieving overall quality  
Practitioner viewpoint on proven  
patterns, techniques, methodologies,  
models and best practices. Bulleted  
summary and tabular representation of  
concepts for effective understanding

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## **Production operations and troubleshooting tips**

**Want your web site to display more quickly? This book presents 14 specific rules that will cut 25% to 50% off response time when users request a page. Author Steve Souders, in his job as Chief Performance Yahoo!, collected these best practices while optimizing some of the most-visited pages on the Web. Even sites that had already been highly optimized, such as Yahoo! Search**

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and the Yahoo! Front Page, were able to benefit from these surprisingly simple performance guidelines. The rules in High Performance Web Sites explain how you can optimize the performance of the Ajax, CSS, JavaScript, Flash, and images that you've already built into your site -- adjustments that are critical for any rich web application. Other sources of information pay a lot of attention to tuning web servers, databases, and hardware, but the bulk



of display time is taken up on the browser side and by the communication between server and browser. High Performance Web Sites covers every aspect of that process. Each performance rule is supported by specific examples, and code snippets are available on the book's companion web site. The rules include how to:

- Make Fewer HTTP Requests
- Use a Content Delivery Network
- Add an Expires Header
- Gzip Components
- Put Stylesheets at the

**Top Put Scripts at the Bottom Avoid CSS Expressions Make JavaScript and CSS External Reduce DNS Lookups Minify JavaScript Avoid Redirects Remove Duplicates Scripts Configure ETags Make Ajax Cacheable If you're building pages for high traffic destinations and want to optimize the experience of users visiting your site, this book is indispensable. "If everyone would implement just 20% of Steve's guidelines, the Web would be**

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adramatically better place. Between this book and Steve's YSlow extension, there's really no excuse for having a sluggish web site anymore." -Joe Hewitt, Developer of Firebug debugger and Mozilla's DOM Inspector "Steve Souders has done a fantastic job of distilling a massive, semi-arcane art down to a set of concise, actionable, pragmatic engineering steps that will change the world of web performance." -Eric Lawrence, Developer of the

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**Fiddler Web Debugger, Microsoft Corporation**

**This IBM® Redbooks® publication provides performance tuning tips and best practices for IBM Business Process Manager (IBM BPM) V8.5.5 (all editions) and IBM Business Monitor V8.5.5. These products represent an integrated development and runtime environment based on a key set of service-oriented architecture (SOA) and business process management (BPM) technologies. Such**

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**technologies include Service Component Architecture (SCA), Service Data Object (SDO), Business Process Execution Language (BPEL) for web services, and Business Processing Modeling Notation (BPMN). Both IBM Business Process Manager and Business Monitor build on the core capabilities of the IBM WebSphere® Application Server infrastructure. As a result, Business Process Manager solutions benefit from tuning, configuration, and best**

practices information for WebSphere Application Server and the corresponding platform Java virtual machines (JVMs). This book targets a wide variety of groups, both within IBM (development, services, technical sales, and others) and customers. For customers who are either considering or are in the early stages of implementing a solution incorporating Business Process Manager and Business Monitor, this document proves a useful

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reference. The book is useful both in terms of best practices during application development and deployment and as a reference for setup, tuning, and configuration information. This book talks about many issues that can influence performance of each product and can serve as a guide for making rational first choices in terms of configuration and performance settings. Similarly, customers who already implemented a solution with these

products can use the information presented here to gain insight into how their overall integrated solution performance can be improved.

**High-Performance Web Databases**

**How to Tune and Modify Engine**

**Management Systems**

**Cassandra High Performance Cookbook**

**Architecting High Performing, Scalable**

**and Available Enterprise Web**

**Applications**

**Techniques for scaling and optimizing**

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## **Spring and Spring Boot applications High Performance Instrumentation and Automation**

**This book focuses on the theoretical and practical aspects of parallel programming systems for today's high performance multi-core processors and discusses the efficient implementation of key algorithms needed to implement parallel programming models. Such implementations need to take into account the specific architectural aspects of the underlying computer architecture and the features offered**

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**by the execution environment. This book briefly reviews key concepts of modern computer architecture, focusing particularly on the performance of parallel codes as well as the relevant concepts in parallel programming models. The book then turns towards the fundamental algorithms used to implement the parallel programming models and discusses how they interact with modern processors. While the book will focus on the general mechanisms, we will mostly use the Intel processor architecture to exemplify the**

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**implementation concepts discussed but will present other processor architectures where appropriate. All algorithms and concepts are discussed in an easy to understand way with many illustrative examples, figures, and source code fragments. The target audience of the book is students in Computer Science who are studying compiler construction, parallel programming, or programming systems. Software developers who have an interest in the core algorithms used to implement a parallel runtime system, or who need to educate**

**themselves for projects that require the algorithms and concepts discussed in this book will also benefit from reading it.**

**Embedded Computing for High Performance: Design Exploration and Customization Using High-level Compilation and Synthesis Tools provides a set of real-life example implementations that migrate traditional desktop systems to embedded systems. Working with popular hardware, including Xilinx and ARM, the book offers a comprehensive description of techniques for mapping computations**

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**expressed in programming languages such as C or MATLAB to high-performance embedded architectures consisting of multiple CPUs, GPUs, and reconfigurable hardware (FPGAs). The authors demonstrate a domain-specific language (LARA) that facilitates retargeting to multiple computing systems using the same source code. In this way, users can decouple original application code from transformed code and enhance productivity and program portability. After reading this book, engineers will understand the processes, methodologies,**

**and best practices needed for the development of applications for high-performance embedded computing systems. Focuses on maximizing performance while managing energy consumption in embedded systems Explains how to retarget code for heterogeneous systems with GPUs and FPGAs Demonstrates a domain-specific language that facilitates migrating and retargeting existing applications to modern systems Includes downloadable slides, tools, and tutorials**

**Over 150 recipes to design and optimize large**

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**scale Apache Cassandra deployments.**  
**This new color edition is essential for the enthusiast who wants to get the most performance out of this new engine design but is only familiar with the older Chevy small-blocks. Covered is everything you need to know about these engines, including the difficult engine removal and installation, simple engine bolt-ons, electronic controls for the Generation III engine, and detailed engine builds at four different power levels.**

**The Scientific Design of Exhaust and Intake**

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## **Systems**

**High Performance Python**

**Hands-On High Performance with Spring 5**

**What every web developer should know about networking and web performance**

**High Performance Browser Networking**

**Building & Tuning High-performance Electronic Fuel Injection**

Improvements in process control, such as defined-accuracy instrumentation structures and computationally intelligent process modeling, enable advanced capabilities such



as molecular manufacturing. High Performance Instrumentation and Automation demonstrates how systematizing the design of instrumentation and automation leads to higher performance through more homogeneous systems, which are frequently assisted by rule-based, fuzzy logic, and neural network process descriptions. Incorporate Advanced Performance Enhancements into Your Automation Enterprise The book illustrates generic common core process-to-control concurrent engineering linkages applied to a variety of laboratory and industry automation systems. It outlines: Product properties translated

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into realizable process variables Axiomatic  
decoupling of subprocess variables for  
improved robustness Production planner model-  
driven goal state execution In situ sensor  
and control structures for attenuating  
process disorder Apparatus tolerance design  
for minimizing process variabilities  
Production planner remodeling based on  
product features measurement for quality  
advancement Coverage also includes  
multisensor data fusion, high-performance  
computer I/O design guided by comprehensive  
error modeling, multiple sensor algorithmic  
error propagation, robotic axes volumetric

accuracy, quantitative video digitization and reconstruction evaluation, and in situ process measurement methods. High Performance Instrumentation and Automation reflects the experience of engineer and author Patrick Garrett, including his role as co-principal investigator for an Air Force intelligent manufacturing initiative. You can download Analysis Suite.xls,, computer-aided design instrumentation software, available in the book's description on the CRC Press website. High-Performance Ignition Systems: Design, Build & Install is a completely updated guide to understanding automotive ignition systems,

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from old-school points and condensers to modern computer-controlled distributorless systems, and from bone-stock systems to highly modified.

"Newcomers will appreciate the clear explanations of the origins and development of secure e-commerce. More experienced developers can move straight to the detailed technical material. Anyone who is involved in e-commerce design, management, or operation will benefit from Secure Electronic Commerce."--BOOK JACKET.

How prepared are you to build fast and efficient web applications? This eloquent

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book provides what every web developer should know about the network, from fundamental limitations that affect performance to major innovations for building even more powerful browser applications—including HTTP 2.0 and XHR improvements, Server-Sent Events (SSE), WebSocket, and WebRTC. Author Ilya Grigorik, a web performance engineer at Google, demonstrates performance optimization best practices for TCP, UDP, and TLS protocols, and explains unique wireless and mobile network optimization requirements. You'll then dive into performance characteristics of technologies such as HTTP 2.0, client-side

network scripting with XHR, real-time streaming with SSE and WebSocket, and P2P communication with WebRTC. Deliver superlative TCP, UDP, and TLS performance Speed up network performance over 3G/4G mobile networks Develop fast and energy-efficient mobile applications Address bottlenecks in HTTP 1.x and other browser protocols Plan for and deliver the best HTTP 2.0 performance Enable efficient real-time streaming in the browser Create efficient peer-to-peer videoconferencing and low-latency applications with real-time WebRTC transports

Design, Automation, and Test in Europe  
How to Build High-Performance Chevy LS1/LS6  
V-8s  
High-Tech Functionality by Multidisciplinary  
System Integration  
Turbo  
Chassis Design, Building & Tuning for High  
Performance Cars  
High Performance SQL Server

***In most forms of racing, cornering speed is the key to winning. On the street, precise and predictable handling is the key to high performance driving. However, the art and science of engineering a chassis can be***

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*difficult to comprehend, let alone apply. Chassis Engineering explains the complex principles of suspension geometry and chassis design in terms the novice can easily understand and apply to any project. Hundreds of photos and illustrations illustrate what it takes to design, build, and tune the ultimate chassis for maximum cornering power on and off the track.*

*The photos in this edition are black and white. Dyno Testing and Tuning is the first book to explain the proper testing procedures that everyone should use to get accurate and useful results from either an engine or*



***chassis dyno. Authors Harold Bettes and Bill Hancock, recognized experts in the performance and racing industry, apply their wealth of knowledge and experience to deliver the definitive work on dynamometers and dyno testing. This book will be useful to anyone who wants to squeeze more power out of their car or engine, but should also be required reading for performance shop owners and dyno operators. The book explains how a dyno works, describes what kinds of data a dyno test can produce, and then shows you how to plan a test session that will give you the results you're looking for. You'll learn what***

**to look for in a dyno facility, how to conduct a dyno test and ensure the accuracy and repeatability of your test, and how to troubleshoot any problems that arise. Sample forms and checklists round out what is sure to be an indispensable book for anyone who wants to make the most of their dyno testing. Introduction to system performance; Monitoring system activity; Managing the workload; Memory performance; Disk performance issues; Network performance; Terminal performance; Kernel configuration. Your Python code may run correctly, but you need it to run faster. Updated for Python 3,**

*this expanded edition shows you how to locate performance bottlenecks and significantly speed up your code in high-data-volume programs. By exploring the fundamental theory behind design choices, High Performance Python helps you gain a deeper understanding of Python's implementation. How do you take advantage of multicore architectures or clusters? Or build a system that scales up and down without losing reliability? Experienced Python programmers will learn concrete solutions to many issues, along with war stories from companies that use high-performance Python for social media*

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***analytics, productionized machine learning, and more. Get a better grasp of NumPy, Cython, and profilers Learn how Python abstracts the underlying computer architecture Use profiling to find bottlenecks in CPU time and memory usage Write efficient programs by choosing appropriate data structures Speed up matrix and vector computations Use tools to compile Python down to machine code Manage multiple I/O and computational operations concurrently Convert multiprocessing code to run on local or remote clusters Deploy code faster using tools like Docker***

***Engine Management***

***The Most Influential Papers of 10 Years DATE***

***Secure Electronic Commerce***

***High Performance MySQL***

***Embedded Computing for High Performance***

***The Go Faster Book***

Since they entered our world around the middle of the 20th century, the application of mechatronics has enhanced our lives with functionality based on the integration of electronics, control systems and electric drives. This book deals with the special class of mechatronics that has enabled the exceptional levels of accuracy and speed of high-tech equipment

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applied in the semiconductor industry, realising the continuous shrink in detailing of micro-electronics and MEMS. As well as the more frequently presented standard subjects of dynamics, motion control, electronics and electromechanics, this book includes an overview of systems engineering, optics and precision measurement systems, in an attempt to establish a connection between these fields under one umbrella. Robert Munnig Schmidt is professor in Mechatronic System Design at Delft University of Technology with industrial experience at Philips and ASML in research and development of consumer

and high-tech systems. He is also director of RMS Acoustics & Mechatronics, doing research and development on active controlled low frequency sound systems. Georg Schitter is professor at the Automation and Control Institute (ACIN) at Vienna University of Technology with a standing track record in research on the control and mechatronic design of extremely fast precision motion systems such as video rate AFM systems. Adrian Rankers is managing partner of Mechatronics Academy, developing and delivering high level courses to the industrial community, based on industrial experience

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at Philips in the research and development of consumer and high-tech systems. Jan van Eijk is emeritus professor in Advanced Mechatronics at Delft University of Technology. He is also director of MICE BV and partner at Mechatronics Academy, acting as industrial R&D advisor and teacher with experience at Philips in the research and development of consumer and high-tech systems. Leverage the power of PostgreSQL 10 to design, administer and maintain a high-performance database solution Key Features Obtain optimal PostgreSQL 10 database performance, ranging from

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initial design to routine maintenance Fine tune the performance of your queries and avoid the common pitfalls that can slow your system down Contains tips and tricks on scaling successful database installations, and ensuring a highly available PostgreSQL solution Book Description PostgreSQL database servers have a common set of problems that they encounter as their usage gets heavier and requirements get more demanding. Peek into the future of your PostgreSQL 10 database's problems today. Know the warning signs to look for and how to avoid the most common issues before they even

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happen. Surprisingly, most PostgreSQL database applications evolve in the same way--choose the right hardware, tune the operating system and server memory use, optimize queries against the database and CPUs with the right indexes, and monitor every layer, from hardware to queries, using tools from inside and outside PostgreSQL. Also, using monitoring insight, PostgreSQL database applications continuously rework the design and configuration. On reaching the limits of a single server, they break things up; connection pooling, caching, partitioning, replication, and parallel queries

can all help handle increasing database workloads. By the end of this book, you will have all the knowledge you need to design, run, and manage your PostgreSQL solution while ensuring high performance and high availability What you will learn

Learn best practices for scaling PostgreSQL 10 installations Discover the best hardware for developing high-performance PostgreSQL applications Benchmark your whole system - from hardware to application Learn by real examples how server parameters impact performance Discover PostgreSQL 10 features for partitioning and parallel

query Monitor your server, both inside and outside the database Design and implement a good replication system on PostgreSQL 10 Who this book is for This book is designed for database administrators and PostgreSQL architects who already use or plan to exploit the features of PostgreSQL 10 to design and maintain a high-performance PostgreSQL database. A working knowledge of SQL, and some experience with PostgreSQL will be helpful in getting the most out of this book.

Now more than ever, Subaru fanatics have a wealth

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of factory and aftermarket performance upgrades at their disposal. In High-Performance Subaru Builder's Guide, author Jeff Zurschmeide explains in detail the similarities and differences between the Subaru models, and describes how to modify each for performance on the street and at the track. He uses over 300 color photos to show you how to modify your Impreza, Legacy, WRX, or STI for improved acceleration, handling, braking, and style. The book provides detailed chapters explaining how to modify the intake, exhaust, turbocharger, and computer systems for more horsepower and torque--plus info

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on upgrading your drivetrain to handle all that power. If taking corners is your thing, you'll find chapters on the suspension, steering, chassis, brakes, and wheels and tires. A special chapter even shows you how to get started in your favorite type of racing, including examples of successful racers and their cars.

The authoritative, hands-on guide to advanced MySQL programming and administration techniques for high performance is here. MySQL Database Design and Tuning is the only guide with coverage of both the basics and advanced topics, including

reliability, performance, optimization and tuning for MySQL. This clear, concise and unique source for the most reliable MySQL performance information will show you how to: Deploy the right MySQL product for your performance needs. Set up a performance management and monitoring environment using tools from MySQL. Implement the right indexing strategy Apply good performance strategy when developing software to work with the MySQL database. Configure dozens of variable to correctly tune the MySQL engine. If you deal with the intricacies and challenges of advanced MySQL

functionality on a daily basis, you will be able to build on your knowledge with author Robert Schneider's real-world experiences in MySQL Database Design and Tuning.

MySQL Database Design and Tuning

Design and Implementation

Performance Automotive Engine Math

High-Performance Ignition Systems

High Performance Web Sites

Street TurbochargingHP1488

*Takes engine-tuning techniques to the next level. It is a must-have for tuners and calibrators and a*

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*valuable resource for anyone who wants to make horsepower with a fuel-injected, electronically controlled engine.*

*Multi-time author and well-regarded performance engine builder/designer John Baechtel has assembled the relevant mathematics and packaged it all together in a book designed for automotive enthusiasts. This book walks readers through the complete engine, showcasing the methodology required to define each specific parameter, and how to translate the engineering math to hard measurements reflected in various engine parts.*

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*Designing the engine to work as a system of related components is no small task, but the ease with which Baechtel escorts the reader through the process makes this book perfect for both the budding engine enthusiast and the professional builder.*

*Apache Spark is amazing when everything clicks. But if you haven't seen the performance improvements you expected, or still don't feel confident enough to use Spark in production, this practical book is for you. Authors Holden Karau and Rachel Warren demonstrate performance*

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*optimizations to help your Spark queries run faster and handle larger data sizes, while using fewer resources. Ideal for software engineers, data engineers, developers, and system administrators working with large-scale data applications, this book describes techniques that can reduce data infrastructure costs and developer hours. Not only will you gain a more comprehensive understanding of Spark, you'll also learn how to make it sing. With this book, you'll explore: How Spark SQL's new interfaces improve performance over SQL's RDD data structure The choice between data joins in*

*Core Spark and Spark SQL Techniques for getting the most out of standard RDD transformations How to work around performance issues in Spark's key/value pair paradigm Writing high-performance Spark code without Scala or the JVM How to test for functionality and performance when applying suggested improvements Using Spark MLlib and Spark ML machine learning libraries Spark's Streaming components and external community packages*

*If you want to add one of the slick Holley, ACCEL, or Edelbrock fuel-injection systems to your small-*

*block V-8, or if you want get rid of the black cloud behind your Eclipse after your injector and 20G swap -- you need this book. With information in this book, you'll never have to wonder if your tune is just right -- you'll know it. If it isn't -- you can change it. After a description of what programmable EFI offers its users, author Ben Strader (founder and senior instructor of EFI University) gives a detailed account of what you want to accomplish with your EFI system, then shows you how to get there. You'll learn to: define air and fuel requirements based on horsepower and RPM; set*

*up your base fuel and ignition maps to get things up and running fast; tweak your fuel and timing maps for light- and heavy-load situations; and adjust timing for cold-starting or high-boost conditions*In the second section of *Building and Tuning High-Performance Electronic Fuel Injection*, Strader gives a detailed description of the systems from 11 respected EFI manufacturers. He helps you weigh the info on cost, features, tunability, and ease of installation between the available systems, so you can find the high-performance aftermarket EFI system that's right for you.

*Custom Engine Management Systems for Domestic and Import 4, 6, and 8-cylinder Engines*

*Modifying and Tuning GenIII Engines for GM Cars and Pickups*

*Practical Performant Programming for Humans*

*Efficient Mapping of Computations Using Customization, Code Transformations and Compilation*

*Two-stroke High Performance Engine Design and Tuning*

High Performance MySQL is the definitive guide to building fast, reliable systems with MySQL. Written

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by noted experts with years of real-world experience building very large systems, this book covers every aspect of MySQL performance in detail, and focuses on robustness, security, and data integrity. High Performance MySQL teaches you advanced techniques in depth so you can bring out MySQL's full power. Learn how to design schemas, indexes, queries and advanced MySQL features for maximum performance, and get detailed guidance for tuning your MySQL server, operating system, and hardware to their fullest potential. You'll also learn practical, safe, high-performance ways to scale your



applications with replication, load balancing, high availability, and failover. This second edition is completely revised and greatly expanded, with deeper coverage in all areas. Major additions include: Emphasis throughout on both performance and reliability Thorough coverage of storage engines, including in-depth tuning and optimizations for the InnoDB storage engine Effects of new features in MySQL 5.0 and 5.1, including stored procedures, partitioned databases, triggers, and views A detailed discussion on how to build very large, highly scalable systems with MySQL New

options for backups and replication Optimization of advanced querying features, such as full-text searches Four new appendices The book also includes chapters on benchmarking, profiling, backups, security, and tools and techniques to help you measure, monitor, and manage your MySQL installations.

Real World High-Performance Turbocharger Systems

System Performance Tuning

Designing and Tuning High-Performance Fuel Injection Systems

Optimization, Backups, Replication, Load Balancing  
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