

# Oracle Database Performance And Scalability A Quantitative Approach

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written in henry liu s clear concise style java application performance and scalability gets right to the point with clearly explained concepts most pertinent theories precise step by step procedures and large volume of illustrative charts and tables with highly reliable data supporting behind you gain quickly the necessary knowledge and skills for being able to cope with java application performance and scalability issues without having to resort to more experienced professionals or expensive external consultants specifically it helps you learn the following knowledge and skills that are essential for you to become more effective in contributing to the success of your organization what you need to know at minimum about the architecture of modern hardware so that you can make smart decisions on when you should pour your time on your application and when you can just throw in more advanced hardware to get by what you need to know about garbage collection theories in general and how they are implemented with widely used java virtual machines like hotspot jvms precise methodologies procedures and programs that you can start to use immediately to help you profile and tune your java applications how you can design and build performance and scalability into your product proactively without having to face tough retrofitting decisions or even torrents of customer escalations later on in addition the book contains interesting data for your reference associated with oops compression cms garbage collection tuning doescapeanalysis g1 versus cms comparison etc all based on full scale rigorous performance and scalability tests with real products

praise from the reviewers the practicality of the subject in a real world situation distinguishes this book from others available on the market professor behrouz far university of calgary this book could replace the computer organization texts now in use that every cs and cpe student must take it is much needed well written and thoughtful professor larry bernstein stevens institute of technology a distinctive educational text on software performance and scalability this is the first book to take a quantitative approach to the subject of software performance and scalability it brings together three unique perspectives to demonstrate how your products can be optimized and tuned for the best possible performance and scalability the basics introduces the computer hardware and software architectures that predetermine the performance and scalability of a software product as well as the principles of measuring the performance and scalability of a software product queuing theory helps you learn the performance laws and queuing models for interpreting the underlying physics behind software performance and scalability supplemented with ready to apply techniques for improving the performance and scalability of a software system api profiling shows you how to design more efficient algorithms and achieve optimized performance and scalability aided by adopting an api profiling framework perfbasic built on the concept of a performance map for drilling down performance root causes at the api level software performance and scalability gives you a specialized skill set that will enable you to design and build performance into your products with immediate measurable improvements complemented with real world case studies it is an indispensable resource for software developers quality and performance assurance engineers architects and managers it is an ideal text for university courses related to computer and software performance evaluation and can also be used to supplement a course in computer organization or in queuing theory for upper division and graduate computer science students

big data analytics in chemoinformatics and bioinformatics with applications to computer aided drug design cancer biology emerging pathogens and computational toxicology provides an up to date presentation of big data analytics methods and their applications in diverse fields the proper management of big data for decision making in scientific and social issues is of paramount importance this book gives researchers the tools they need to solve big data problems in these fields it begins with a section on general topics that all readers will find useful and continues with specific sections covering a range of interdisciplinary applications here an international team of leading experts review their respective fields and present their latest research findings with case studies used throughout to analyze and present key information brings together the current knowledge on the most important aspects of big data including analysis using deep learning and fuzzy logic transparency and data protection disparate data analytics and scalability of the big data domain covers many applications of big data analysis in diverse fields such as chemistry chemoinformatics bioinformatics computer assisted drug vaccine design characterization of emerging pathogens and environmental protection highlights the considerable benefits offered by big data analytics to science in biomedical fields and in industry

the integration of artificial intelligence and machine learning into neuropsychology and cognitive psychology is revolutionizing how we understand diagnose and treat neurological and psychological conditions by leveraging advanced algorithms these technologies enable earlier detection of cognitive decline more precise diagnoses and personalized therapeutic interventions they enhance the accuracy of neuropsychological assessments automate scoring processes and uncover subtle patterns in data that traditional methods might overlook furthermore real time data analysis from wearable devices and smartphones offers a continuous understanding of cognitive and emotional states bridging the gap between clinical settings and daily life this convergence promises to transform patient care and advance research paving the way for more effective and innovative solutions in mental health and brain science transforming neuropsychology and cognitive psychology with ai and machine learning highlights the synergies between neuropsychology cognitive psychology ai and machine learning and explores innovative applications methodologies and future prospects it serves as a comprehensive resource for the latest advancements in ai algorithms and machine learning within neuropsychology and cognitive psychology covering topics such as ai driven assessments college counseling and virtual reality this book is an excellent resource for academicians researchers graduate and postgraduate students mental health practitioners industry researchers non governmental and governmental organizations and more

here are the refereed proceedings of the 5th international ifip tc6 networking conference networking 2006 the 88 revised full papers and 31 poster papers are organized in topical sections on caching and content management mobile ad hoc networks mobility handoff monitoring measurements multicast multimedia optical networks peer to peer resource management and qos routing topology and location awareness traffic engineering transport protocols wireless networks and wireless sensor networks

the august 1999 conference concentrated on the delivery of high quality software on schedule and within budget offering practical experience from both industry and academia the 37 technical papers provide insights from lessons learned on real projects covering such topics as databases object ori

the complete proceedings of the december 1994 conference containing some 120 papers addresses and sessions on topics such as teraflop computing architecture independent parallel programming parallel algorithms fddi atm networks load balancing distributed mutual exclusion interconnection net

abstract as computers with tens of thousands of processors are successfully delivering high performance power for solving some of the so called grand challenge applications the notion of scalability is becoming an important metric in the evaluation of parallel machine architectures and algorithms in this study the prediction of scalability and its application are carefully investigated a simple formula is presented to show the relation between scalability single processor computing power and degradation of parallelism a case study is conducted on a multi ring ksr 1 shared virtual memory machine experimental and theoretical results show that the influence of topology variation of an architecture is predictable therefore the performance of an algorithm on a sophisticated hierarchical architecture can be predicted and the best algorithm machine combination can be selected for a given application

proceedings of the conference held september october 1999 a total of 50 contributions discuss aspects of wdm protocols multicast communication teletraffic engineering mobile communication network management asynchronous transfer mode internet and atm protocols cdma systems network qos satellite systems communication systems security and multimedia communications contains no index other than an author index annotation copyrighted by book news inc portland or

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