

# PERFORMANCE EVALUATION OF TRANSACTION PROCESSING IN MOBILE DATA BASE SYSTEMS

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## ABSTRACT

*Specific characteristics of mobile environments make traditional transaction management techniques no longer appropriate. This is due the fact that the ACID properties of transactions are not simply followed, in particular the consistency property. Thus, transaction management models adopting weaker form of consistency are needed and these models can now tolerate a limited amount of consistency. In this paper we evaluate our execution framework on different mobile computation modes using different execution strategies. Moreover, the effects of the fixed host transaction are identified and included in the evaluation. The integration between wired and wireless environments confirms that the execution strategy is critical for the performance of a system. Neither MHS nor FHS are optimal in all situations and the performance penalties and wasted wireless resources can be substantial. A combined strategy CHS over MCA-FSA computation model matches the best performance of the FHS and MHS and shows better performance than both in many cases.*

## KEYWORDS

*Mobile Data Base, transaction processing, Execution Strategies, Execution framework, Performance evaluation.*

## 1. INTRODUCTION

Mobile computing suggest that there will be more competition for shared data since it provides users with ability to access information and services through wireless connections that can be retained even while the user is moving. Further, mobile users will have to share their data with others. Those users may have access to the shared data by reliable wired communication (i.e. fixed host transaction or unreliable wireless communication (i.e. mobile host transaction). The task of ensuring consistency of shared data becomes more difficult in mobile computing because of limitations of wireless communication and restrictions imposed due to mobility and portability [20]. The access to the future information systems through mobile computers will be performed with the help of mobile transactions. Research in mobile database systems (MDBS) has received a lot of interests in the past decade [1, 16, 19, 24, 25, 26, 28, and 29]. Transactions in a mobile database system are usually associated with relaxation of ACID properties because of its long-lived nature and the limitation inherited from the wireless environment. Any abortion of a mobile transaction may result in a high cost associated with scarce wireless resources, while fixed transactions might only cause a little degraded level of system performance. In the past two decades, researchers have proposed various transaction models [13, 23,21] either to tackle the isolation and atomicity properties of mobile transaction [13, 23, 27 ] or guarantee the consistency of mobile transaction. Most of the previous studies in mobile database system often assume that the system may consist of only one single type of transaction(i.e. mobile transaction). Without

# Performance Evaluation Of Data Base Systems

**Patrick M. K. Wong**



## **Performance Evaluation Of Data Base Systems:**

**Performance Evaluation of Data Base Systems** Patrick M. K. Wong,1981      **A Guide to Performance Evaluation of Database Systems** S. Bing Yao,Alan R. Hevner,1984      **Data Bases and Data Base Systems Related to NASA's Aerospace Program** ,1983      *Readings in Database Systems* Joseph M. Hellerstein,Michael Stonebraker,2005 The latest edition of a popular text and reference on database research with substantial new material and revision covers classical literature and recent hot topics Lessons from database research have been applied in academic fields ranging from bioinformatics to next generation Internet architecture and in industrial uses including Web based e commerce and search engines The core ideas in the field have become increasingly influential This text provides both students and professionals with a grounding in database research and a technical context for understanding recent innovations in the field The readings included treat the most important issues in the database area the basic material for any DBMS professional This fourth edition has been substantially updated and revised with 21 of the 48 papers new to the edition four of them published for the first time Many of the sections have been newly organized and each section includes a new or substantially revised introduction that discusses the context motivation and controversies in a particular area placing it in the broader perspective of database research Two introductory articles never before published provide an organized current introduction to basic knowledge of the field one discusses the history of data models and query languages and the other offers an architectural overview of a database system The remaining articles range from the classical literature on database research to treatments of current hot topics including a paper on search engine architecture and a paper on application servers both written expressly for this edition The result is a collection of papers that are seminal and also accessible to a reader who has a basic familiarity with database systems      **Benchmark Analysis of Database Architectures** S. Bing Yao,Daniel R. Benigni,1985

**Performance Evaluation of a Firm Real-Time DataBase System** ,1995 In conventional database systems performance is primarily measured by the number of transactions completed within a unit time In real time applications timing and criticality characteristics of transactions must be taken into account In this paper we examine the performance of StarBase a firm real time database system The deadline guarantee ratio and average response times are the primary performance measures There have been performance studies on real time data base systems but most of them were performed using simulation This work demonstrates the feasibility of developing a real time database system with an acceptable performance      **Performance Evaluation of Database Systems a Benchmark Methodology** S. Bing Yao,1984      **Computer Science and Technology** S. Bing Yao,1984      **Database Systems for Advanced Applications** Chengfei Liu,Lei Zou,Jianxin Li,2018-05-12 This book constitutes the workshop proceedings of the 23rd International Conference on Database Systems for Advanced Applications DASFAA 2018 held in Gold Coast QLD Australia in May 2018 The 23 full papers presented were carefully selected and reviewed from 44 submissions to the four following workshops the

5th International Workshop on Big Data Management and Service BDMS 2018 the Third International Workshop on Big Data Quality Management BDQM 2018 the Second International Workshop on Graph Data Management and Analysis GDMA 2018 and the 5th International Workshop on Semantic Computing and Personalization SeCoP 2018      **Data for Science and Technology** Phyllis S. Glaeser, 2013-10-22 Data for Science and Technology covers the proceedings of the Seventh International CODATA Conference This text is comprised of 133 chapters with a total of 180 papers from 400 hundred authors which cover CODATA concerned with environmental and energy questions along with problems of data banking and telecommunications network operations This book provides valuable assessment of data and points out alternatives trends and requirements for the future such as production and use of data in pure applied sciences data for the development of human settlements in a dynamic world informatical analysis of scientific research activities and data on our evolutionary heritage Researchers from all scientific fields will find this book a great source reference material since it presents research from various disciplines      *Resources in Education* ,1987      **Database and Expert Systems Applications** Mohamed Ibrahim, Josef Küng, Norman Revell, 2003-05-15 The Database and Expert Systems Applications DEXA conferences have established themselves as a platform for bringing together researchers and practitioners from various backgrounds and all regions of the world to exchange ideas experiences and opinions in a friendly and stimulating environment The papers presented at the conference represent recent developments in the field and important steps towards shaping the future of applied computer science and information systems DEXA covers a broad field all aspects of databases knowledge based systems knowledge management web based systems information systems related technologies and their applications Once again there were a good number of submissions out of 183 papers that were submitted the program committee selected 92 to be presented In the first year of this new millennium DEXA has come back to the United Kingdom following events in Vienna Berlin Valencia Prague Athens London Zurich Toulouse Vienna and Florence The past decade has seen several revolutionary developments one of which was the explosion of Internet related applications in the areas covered by DEXA developments in which DEXA has played a role and in which DEXA will continue to play a role in its second decade starting with this conference      **Database Systems For Advanced Applications '91 - Proceedings Of The 2nd International Symposium On Database Systems For Advanced Applications** Akifumi Makinouchi, 1992-09-21 This book provides an authoritative overview of the global development of surgical paediatrics Biographical accounts of key people who developed this relatively new specialty many of whom are now household names are presented The compendium also acknowledges the enormous contribution of imaging ultrasound MRI and PET scans minimal invasive surgery and fetal surgery as well as the role of related journals and associations in the progress of surgical paediatrics Many of the contributors have been instrumental to the development of surgical paediatrics in their respective countries and have considerable worldwide influence on the management of children requiring surgical care Through their valuable insight and first hand experience

this book not only shines a light on the past achievements of previous generations of paediatric surgeons but also serves as a model to encourage future generations to do likewise      **Computer Performance Evaluation** Computer Performance Evaluation Users Group,1975      *Scientific and Technical Aerospace Reports* ,1980      **Database Systems For Advanced**

**Applications '95 - Proceedings Of The Fourth International Conference** Wang Ling Tok,Yoshifumi

Masunaga,1995-03-31 This volume contains three keynote papers and 51 technical papers from contributors around the world on topics in the research and development of database systems such as Data Modelling Object Oriented Databases Active Databases Data Mining Heterogeneous Databases Distributed Databases Parallel Query Processing Multi Media Databases Transaction Management Systems Document Databases Temporal Databases Deductive Databases User Interface and Advanced Database Applications      **PARLE '93 Parallel Architectures and Languages Europe** Arndt Bode,Mike

Reeve,1993-06-07 Parallel processing offers a solution to the problem of providing the processing power necessary to help understand and master the complexity of natural phenomena and engineering structures By taking several basic processing devices and connecting them together the potential exists of achieving a performance many times that of an individual device However building parallel application programs is today recognized as a highly complex activity requiring specialist skills and in depth knowledge PARLE is an international European based conference which focuses on the parallel processing subdomain of informatics and information technology It is intended to become THE European forum for interchange between experts in the parallel processing domain and to attract both industrial and academic participants with a technical programme designed to provide a balance between theory and practice This volume contains the proceedings of PARLE 93 The PARLE conference came into existence in 1987 as an initiative from the ESPRIT I programme and the format was revised in 1991 92 PARLE 93 is the second conference with the new format and was held in Munich      **The Science of Database**

**Systems** Pasquale De Marco,2025-07-24 The Science of Database Systems is a comprehensive guide to the design development and deployment of database systems It provides a thorough understanding of the fundamental concepts and principles that underpin the field of database systems as well as the latest trends and innovations in the industry Whether you are a student a developer or a database administrator this book will provide you with the knowledge and skills you need to succeed in the field of database systems Key Features Covers all aspects of database systems from the basics to advanced topics Written in a clear and concise style with numerous examples and illustrations Includes case studies and best practices from real world applications Provides a comprehensive overview of the latest trends and innovations in the field of database systems Table of Contents Chapter 1 The Relational Data Model Chapter 2 Database Design Chapter 3 Database Management Systems Chapter 4 Database Security Chapter 5 Database Performance Tuning Chapter 6 Advanced Database Concepts Chapter 7 Database Applications Chapter 8 Database Trends and Innovations Chapter 9 Database Administration Chapter 10 Case Studies and Best Practices About the Author Pasquale De Marco is a leading expert in the field of database

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