

# Nested Transactions

## An Approach to Reliable Distributed Computing

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J. Eric Burch

# Nested Transactions An Approach To Reliable Distributed Computing

**J. Eliot B. Moss**



## **Nested Transactions An Approach To Reliable Distributed Computing:**

Nested Transactions J. Eliot B. Moss, 1981 We examine how to program a system so that the software continues to work in the face of a variety of failures of parts of the system The design presented uses the concept of transactions collections of primitive actions that are indivisible The indivisibility of transactions insures that consistent results are obtained even when requests are processed concurrently or failures occur during a request Our design permits transactions to be nested Nested transactions provide nested universes of synchronization and recovery from failures The advantages of nested transactions over single level transactions are that they provide concurrency control within transactions by serializing subtransactions appropriately and that they permit parts of a transaction to fail without necessarily aborting the entire transaction The method for implementing nested transactions described in this report is novel in that it uses locking for concurrency control We present the necessary algorithms for locking recovery distributed commitment and distributed deadlock detection for a nested transaction system While the design has not been implemented it has been simulated The algorithms are described in a formal notation in an appendix as well as narratively in the body of the report Distributed Algorithms Jean-Claude Bermond, 1989-09-06 This book includes the papers presented at the Third International Workshop on Distributed Algorithms organized at La Colle sur Loup near Nice France September 26 28 1989 which followed the first two successful international workshops in Ottawa 1985 and Amsterdam 1987 This workshop provided a forum for researchers and others interested in distributed algorithms on communication networks graphs and decentralized systems The aim was to present recent research results explore directions for future research and identify common fundamental techniques that serve as building blocks in many distributed algorithms Papers describe original results in all areas of distributed algorithms and their applications including distributed combinatorial algorithms distributed graph algorithms distributed algorithms for control and communication distributed database techniques distributed algorithms for decentralized systems fail safe and fault tolerant distributed algorithms distributed optimization algorithms routing algorithms design of network protocols algorithms for transaction management composition of distributed algorithms and analysis of distributed algorithms *Advanced Transaction Models and Architectures* Sushil Jajodia, Larry Kerschberg, 2012-12-06 Motivation Modern enterprises rely on database management systems DBMS to collect store and manage corporate data which is considered a strategic corporate resource Recently with the proliferation of personal computers and departmental computing the trend has been towards the decentralization and distribution of the computing infrastructure with autonomy and responsibility for data now residing at the departmental and workgroup level of the organization Users want their data delivered to their desktops allowing them to incorporate data into their personal databases spreadsheets word processing documents and most importantly into their daily tasks and activities They want to be able to share their information while retaining control over its access and distribution There are also pressures from corporate leaders who wish to use information technology as a strategic resource

in offering specialized value added services to customers Database technology is being used to manage the data associated with corporate processes and activities Increasingly the data being managed are not simply formatted tables in relational databases but all types of objects including unstructured text images audio and video Thus the database management providers are being asked to extend the capabilities of DBMS to include object relational models as well as full object oriented database management systems

Advances in Databases and Information Systems Johann Eder,Ivan Rozman,Tatjana Welzer,2003-06-29 The 3rd Eastern European Conference on Advances in Databases and Information Systems ADBIS 99 took place on 13 16 September 1999 in Maribor Slovenia It was organized in cooperation with ACM SIGMOD the Moscow chapter of ACM SIGMOD Slovenian Society Informatika and the Slovenian Ministry of Technology The aim of the ADBIS series of conferences is to provide a forum for the exchange of scientific achievements and experiences using innovative methods and approaches between the research communities of Central and Eastern Europe and the rest of the world in the area of databases and information systems The 1999 conference continues the series of ADBIS events held in Moscow St Petersburg and Poznan The ADBIS steering committee has the ambition to make the ADBIS conference the premiere database and information systems conference in Central and Eastern Europe to increase interaction and collaboration between researchers from East and West and to provide an internationally recognized forum for the presentation of research and experiences in all aspects of modern database technology and information systems To achieve these goals an international program committee selected 26 full research papers in a rigorous reviewing process from a total of 94 submissions from 33 different countries This high number of submissions from so many different areas shows the truly worldwide recognition of and interest in the ADBIS series

**Transaction Processing** Jim Gray,Andreas Reuter,1992-09-30 The key to client server computing Transaction processing techniques are deeply ingrained in the fields of databases and operating systems and are used to monitor control and update information in modern computer systems This book will show you how large distributed heterogeneous computer systems can be made to work reliably Using transactions as a unifying conceptual framework the authors show how to build high performance distributed systems and high availability applications with finite budgets and risk The authors provide detailed explanations of why various problems occur as well as practical usable techniques for their solution Throughout the book examples and techniques are drawn from the most successful commercial and research systems Extensive use of compilable C code fragments demonstrate the many transaction processing algorithms presented in the book The book will be valuable to anyone interested in implementing distributed systems or client server architectures

**The ... International Conference on Distributed Computing Systems** ,1995

ECOOP '92. European Conference on Object-Oriented Programming Ole Lehrmann Madsen,1992-06-16 This volume constitutes the proceedings of the sixth European Conference on Object Oriented Programming ECOOP held in Utrecht The Netherlands June 29 July 3 1992 Since the French initiative to organize the first conference in Paris ECOOP has been a very

successful forum for discussing the state of the art of object orientation ECOOP has been able to attract papers of a high scientific quality as well as high quality experience papers describing the pros and cons of using object orientation in practice This duality between theory and practice within object orientation makes a good example of experimental computer science The volume contains 24 papers including two invited papers and 22 papers selected by the programme committee from 124 submissions Each submitted paper was reviewed by 3-4 people and the selection of papers was based only on the quality of the papers themselves

**Very Large Data Bases**, 1989 *Proceedings*, 1985 **Database Theory - ICDT '97** Foto N. Afrati, Phokion Kolaitis, 1997 This book constitutes the refereed proceedings of the 6th International Conference on Database Theory ICDT 97 held in Delphi Greece in January 1997 The 29 revised full papers presented in the volume were carefully selected from a total of 118 submissions Also included are invited papers by Serge Abiteboul and Jeff Ullman as well as a tutorial on data mining by Heikki Mannila The papers are organized in sections on conjunctive queries in heterogeneous databases logic and databases active databases new applications concurrency control unstructured data object oriented databases access methods and spatial and bulk data

**The 8th International Conference on Distributed Computing Systems, San Jose, California, June 13-17, 1988**, 1988 Proceedings of the Eighth International Conference on title San Jose Ca June 1988 On the specification design implementation evaluation and operation of these systems No subject index acidic paper Annotation copyrighted by Book News Inc Portland OR

**A New Model for Engineering Transaction** Cheng Chang, University of Illinois at Urbana-Champaign. Department of Computer Science, 1996 Abstract Engineering software systems like CAD and CASE are popular and important for today's industry As applications of engineering software systems are getting more complex engineering database systems like CAD and CASE databases which support concurrency control access control recovery and versioning are also on demand Data modeling of engineering applications by using the object oriented paradigm has been investigated in the past 6-21 However a sufficient and complete transaction model to support the engineering databases is still under discussion Transaction processing in the context of traditional database applications such as banking and airline reservation systems has been thoroughly studied 4-11-12-37 However the concept of the traditional transaction can not be used in engineering database environments such as CAD and CASE databases because of some constraints imposed by the traditional transaction's ACID properties In this thesis I thoroughly studied the requirements of engineering transactions formally defined an engineering transaction model and prudently showed that the proposed transaction model has the desired properties Moreover I designed a transaction system architecture to realize my transaction model

**Advances in Distributed and Parallel Processing: System paradigms and methods** Harry W. Tyrer, 1994 The progress in distributed and parallel computing has been accompanied by the concurrent arrival of hardware architectures software and algorithms This series reviews particular areas in this field based on fundamental issues and the state of the art It provides in depth contributions that should be valuable to all professionals involved in the design

development research production and use of parallel and distributed processing systems *Transactions and Database Dynamics*, 1999 *Distributed Systems* George F. Coulouris, Jean Dollimore, 1988 This new edition represents a significant update of this best selling textbook for distributed systems It incorporates and anticipates the major developments in distributed systems technology All chapters have been thoroughly revised and updated including emphasis on the Internet intranets mobility and middleware There is increased emphasis on algorithms and discussion of security has been brought forward in the text and integrated with other related technologies As with previous editions this book is intended to provide knowledge of the principles and practice of distributed system design Information is conveyed in sufficient depth to allow readers to evaluate existing systems or design new ones Case studies illustrate the design concepts for each major topic

**Distributed Systems** M.W. Alford, J.P. Ansart, G. Hommel, L. Lamport, B. Liskov, G.P. Mullery, F.B. Schneider, 1985 *A Distributed Deadlock Detection and Resolution Algorithm for Semantics-based Concurrency Control Schemes* Marina da Costa Lima Roesler, 1987 *Computers, Control & Information Theory*, 1981 *The Ecology of Computation* Bernardo A. Huberman, 1988 Propelled by advances in software design and increasing connectivity distributed computational systems are acquiring characteristics reminiscent of social and biological organizations This volume is a collection of articles dealing with the nature design and implementation of these open computational systems Although varied in their approach and methodology the articles are related by the goal of understanding and building computational ecologies They are grouped in three major sections The first deals with general issues underlying open systems studies of computational ecologies and their similarities with social organizations The second part deals with actual implementations of distributed computation and the third discusses the overriding problem of designing suitable languages for open systems All the articles are highly interdisciplinary emphasizing the application of ecological ideas game theory market mechanisms and evolutionary biology in the study of open systems Formal Techniques in Real-time and Fault-tolerant Systems, 1988

## Decoding **Nested Transactions An Approach To Reliable Distributed Computing**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Nested Transactions An Approach To Reliable Distributed Computing**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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