

MULTILEVEL SECURE TRANSACTION PROCESSING

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Multilevel Secure Transaction Processing

Xiang Xie

Multilevel Secure Transaction Processing:

Multilevel Secure Transaction Processing Vijay Atluri,Sushil Jajodia,Binto George,2012-12-06 Information security is receiving a great deal of attention as computers increasingly process more and more sensitive information A multilevel secure database management system MLS DBMS is designed to store retrieve and process information in compliance with certain mandatory security requirements essential for protecting sensitive information from unauthorized access modification and abuse Such systems are characterized by data objects labeled at different security levels and accessed by users cleared to those levels Unless transaction processing modules for these systems are designed carefully they can be exploited to leak sensitive information to unauthorized users In recent years considerable research has been devoted to the area of multilevel secure transactions that has impacted the design and development of trusted MLS DBMS products Multilevel Secure Transaction Processing presents the progress and achievements made in this area The book covers state of the art research in developing secure transaction processing for popular MLS DBMS architectures such as kernelized replicated and distributed architectures and advanced transaction models such as workflows long duration and nested models Further it explores the technical challenges that require future attention Multilevel Secure Transaction Processing is an excellent reference for researchers and developers in the area of multilevel secure database systems and may be used in advanced level courses in database security information security advanced database systems and transaction processing

Database Security X Pierangela Samarati,Ravi Sandhu,2016-01-09 The purpose of this book is to discuss in depth the current state of research and practice in database security to enable readers to expand their knowledge The book brings together contributions from experts in the field throughout the world Database security is still a key topic in most businesses and in the public sector having implications for the whole of society *Information Security and Ethics: Concepts, Methodologies, Tools, and Applications* Nemati, Hamid,2007-09-30 Presents theories and models associated with information privacy and safeguard practices to help anchor and guide the development of technologies standards and best practices Provides recent comprehensive coverage of all issues related to information security and ethics as well as the opportunities future challenges and emerging trends related to this subject *Database and Application Security XV* Martin S. Olivier,David L. Spooner,2012-12-06 Database and Application Security XV provides a forum for original research results practical experiences and innovative ideas in database and application security With the rapid growth of large databases and the application systems that manage them security issues have become a primary concern in business industry government and society These concerns are compounded by the expanding use of the Internet and wireless communication technologies This volume covers a wide variety of topics related to security and privacy of information in systems and applications including Access control models Role and constraint based access control Distributed systems Information warfare and intrusion detection Relational databases Implementation issues Multilevel systems New application areas including XML

Database and Application Security XV contains papers keynote addresses and panel discussions from the Fifteenth Annual Working Conference on Database and Application Security organized by the International Federation for Information Processing IFIP Working Group 11.3 and held July 15-18 2001 in Niagara on the Lake Ontario Canada Encyclopedia of Information Science and Technology Mehdi Khosrow-Pour, Mehdi Khosrowpour, 2009 This set of books represents a detailed compendium of authoritative research based entries that define the contemporary state of knowledge on technology. Provided by publisher Encyclopedia of Information Science and Technology, First Edition Khosrow-Pour, D.B.A., Mehdi, 2005-01-31 Comprehensive coverage of critical issues related to information science and technology **Computational Science and Its Applications - ICCSA 2006** Marina L. Gavrilova, 2006 **Database Security, Volume X** Pierangela Samarati, Ravinderpal Sandhu, 1997 The purpose of this book is to discuss in depth the current state of research and practice in database security to enable readers to expand their knowledge. The book brings together contributions from experts in the field throughout the world. Database security is still a key topic in most businesses and in the public sector having implications for the whole of society **Building Trustworthy Semantic Webs** Bhavani Thuraisingham, 2007-12-05 Semantic Webs promise to revolutionize the way computers find and integrate data over the internet. They will allow Web agents to share and reuse data across applications, enterprises and community boundaries. However, this improved accessibility poses a greater threat of unauthorized access which could lead to the malicious corruption of information.

Database Security, VII Thomas F. Keefe, Carl E. Landwehr, 1994 Database security continues to hold a position of prime importance in the computer science and information engineering world. This volume explores the latest research and development in the area with particular emphasis on policy modeling, object oriented systems, distributed databases, concurrency control, DBMS design issues, performance analysis, integrity, panel privacy issues and the design of healthcare information systems inference, transaction processing. Papers are sourced from renowned experts across each specialist sector and the publication will therefore be of significant interest to all researchers, designers, developers and students concerned with database security **8th IEEE Computer Security Foundations Workshop**, 1995 Researchers explore fundamental issues in computer security such as access control, cryptography, protocols, database security, integrity and availability, information flow and formal methods for security. Among the 18 topics are classifying key agreement protocols, a semantics based tool for the v

Proceedings, IEEE High-Assurance Systems Engineering Workshop, October 21-22, 1996, Niagara on the Lake, Ontario, Canada, 1997 This text explores high assurance software design and development. It includes specification and testing of high assurance systems, quality and high assurance concurrency and high assurance high assurance execution environments, security and reliability and high assurance

A Multi-Threading Architecture for Multilevel Secure Transaction Processing, 1999 A TCB and security kernel architecture for supporting multi-threaded queue driven transaction processing applications in a multilevel secure environment is presented. Our design

exploits hardware security features of the Intel 80x86 processor family Intel's CPU architecture provides hardware with two distinct descriptor tables. We use one of these in the usual way for process isolation. For each process the descriptor table holds the descriptors of system low segments such as code segments used by every thread in a process. We use the second table to hold descriptors for segments known to individual threads within the process. This allocation together with an appropriately designed scheduling policy permits us to avoid the full cost of process creation when only switching between threads of different security classes in the same process. Where large numbers of transactions are encountered on transaction queues this approach has benefits over traditional multilevel systems.

Information Security and Ethics

Hamid R. Nemat, 2008. This compilation serves as the ultimate source on all theories and models associated with information privacy and safeguard practices to help anchor and guide the development of technologies standards and best practices to meet these challenges. Provided by publisher **Database and Expert Systems Applications**, 2000 **Microcomputer Applications**, 1990 **Proceedings, 1993 IEEE Computer Society Symposium on Research in Security and Privacy, May 24-26, 1993, Oakland, California**, 1993 **Applied Computing**, 1994 *Sonata for flute or violin and piano, opus 94* Sergey Prokofiev, 2003 *Dissertation Abstracts International*, 1998

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