Coordinating Distributed Objects

AN ACTOR-BASED APPROACH TO SYNCHRONIZATION

Svend Frølund

Coordinating Distributed Objects

Zahir Tari

Coordinating Distributed Objects:

   Coordinating Distributed Objects Svend Frølund,1996 Coordinating Distributed Objects presents a novel object oriented methodology to simplify the construction of distributed software systems The methodology is based on a programming construct called synchronizer that allows the coordination of distributed application components to be programmed in a modular fashion and at a high level of abstraction The methodology offers new insight into the problem of coordination in distributed systems and can be applied to a broad spectrum of distributed software systems such as process control multimedia and groupware Current methodologies for developing distributed applications do not adequately address the complexity of coordinating application components The coherence between asynchronous application components for instance is usually implemented by explicitly programming a large number of messages and the responses to them The synchronizer construct however implements coordination as abstract and reusable coordination constraints and thereby reduces code size and complexity by an order of magnitude Synchronizers offer other attractions as well they maintain procedural abstraction data encapsulation and inherent concurrency Overall they allow coordination to be expressed at a level of abstraction that is much closer to the mental model of code developers   **Coordinating Distributed Objects** Svend Frolund,1996-11 Coordinating Distributed Objects presents a novel object oriented methodology to simplify the construction of distributed software systems The methodology is based on a programming construct called synchronizer that allows the coordination of distributed application components to be programmed in a modular fashion and at a high level of abstraction The methodology offers new insight into the problem of coordination in distributed systems and can be applied to a broad spectrum of distributed software systems such as process control multimedia and groupware Current methodologies for developing distributed applications do not adequately address the complexity of coordinating application components The coherence between asynchronous application components for instance is usually implemented by explicitly programming a large number of messages and the responses to them The synchronizer construct however implements coordination as abstract and reusable coordination constraints and thereby reduces code size and complexity by an order of magnitude Synchronizers offer other attractions as well they maintain procedural abstraction data encapsulation and inherent concurrency Overall they allow coordination to be expressed at a level of abstraction that is much closer to the mental model of code developers   **Coordinating Distributed Objects with Declarative Interfaces** Narinder Singh,Hewlett-Packard Laboratories,Mark A. Gisi,1996   *Coordination Languages and Models* ,2004   Formal Methods for Open Object-based Distributed Systems Howard Bowman,John Derrick,1997   DOA'00 Pamela Drew,2000 The 2000 s International Symposium on Distributed Objects and Applications DOA is the second Preface   **Proceedings of the International Symposium on Distributed Objects and Applications** Zahir Tari,1999 The September 1999 symposium provided a forum for both researchers and practitioners of distributed object systems to evaluate existing ORB middleware products to propose

solutions to major limitations of existing products and to introduce promising future research directions Contributors emphasi   Open Distributed Processing and Distributed Platforms Jerome Rolia,Jacob Slonim,John Botsford,1997-05-31 Advances in computer networking have allowed computer systems across the world to be interconnected Open Distributed Processing ODP systems are those that support heterogenous distributed applications both within and between autonomous organizations Many challenges must be overcome before ODP systems can be fully realized This book describes the recent advances in the theory and practice of developing deploying and managing open distributed systems Applications of these systems include but are not limited to telecommunication medical and large scale transaction processing and electronic commerce systems All of these are currently developed on distributed platforms For anybody working in industry or research in this field Open Distributed Processing and Distributed Platforms will prove an invaluable text   The ... International Conference on Distributed Computing Systems ,2000   OOIS 2001 Xingxu Wang,Shushma Patel,Ronald Johnston,2001-07-23 This volume contains the papers presented at the 7th International Conference on Object Oriented Information Systems OOIS 2001 The conference was hosted by the University of Calgary Calgary Canada on 27 29 August 2001 The theme of OOIS1 was Object Oriented and Web Based Frameworks for Information Systems The papers published in this volume highlight the contributions of leading researchers and practitioners in the field of Object Technology and Information Systems The topics covered include OO foundations OO modeling and analysis OOIS processes XML based IS OO based reuse OO frameworks OO and web testing Use case for requirement analysis OO CASE tools OO virtual environments and real time systems IT process assessment and improvement Industrial experience and case studies Web based IS Component based OOIS Software engineering metrics and analysis Production line and requirements engineering GRIDs the next generation technologies for the Internet E Business Enterprise Frameworks and Perspectives on future development

Technology of Object-oriented Languages and Systems : TOOLS 29 ,1999 The proceedings of the June 1999 conference contains brief outlines of the keynotes tutorials and workshops along with the 35 technical papers presented Numerous papers discuss components frameworks complete architectures and modeling Two key aspects of the Unified Modeling Language receive s   **Dissertation Abstracts International** ,2006   *The Cumulative Book Index* ,1997 A world list of books in the English language   **Process Synchronization and Coordination in Error Recovery Protocols for Distributed Computing Systems** Kuo-Wei Hwang,1990   **An Equational Logic and Coordination Language for Distributed Objects** Mahmood Reza Ziaei,2005   *Proceedings, Sixth IEEE International Symposium on Object-Oriented Real-Time Distributed Computing* Peter Puschner,Tatsuo Nakajima,Arif Ghafoor,2003 ISORC 2003 strives to present state of the art research in ORC reflecting various perspectives of ORC from programming and system engineering topics such as ORC paradigms and object models to Web based applications and system evaluation techniques The diversity of the topics highlights the importance of ORC in today s high tech world   The British National Bibliography Arthur James Wells,1998

J2EE Developer's Handbook Paul J. Perrone,Venkata S. R. R. Chaganti,Tom Schwenk,2003 Developers looking to leverage J2EE need guidance on the features of each tool and on using them together to create real world systems This handbook provides both discussing the tools in the context of practical J2EE applications which demonstrate every aspect of J2EE development *Object Databases* Mary E. S. Loomis,1994 This volume conveys the important facts and concepts business professionals need in order to understand the role of object databases in today s rapidly evolving computing environments Covering all aspects of the essentials of object database technology without requiring advanced technical knowledge this book makes an excellent introductory reference for database experts and non experts alike **ACM SIGPLAN Notices** ,2005

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