



Java Distributed Objects

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Java Distributed Objects

Pasquale De Marco



Java Distributed Objects:

Java Distributed Objects Bill McCarty, Luke Cassady-Dorion, 1999 This book is a comprehensive guide to Java distributed computing The book covers networking distributed computing architectures advanced Java facilities security data managing and specific distributed computing techniques including sockets Remote Method Invocation Java servlets Microsoft s Distributed Component Model and the Common Object Request Broker Architecture *Distributed Object-Oriented Architectures* Josef Stepisnik, 2007 This document intends to offer a detailed discussion of selected distributed object oriented architectures at conceptual level The first part of the discussion offers a comprehensive overview of the Socket architecture in Java 2 and Berkeley UNIX and the distributed object model of Java Remote Method Invocation and the Common Object Request Broker Architecture The second part concludes the discussion with a comparative study of selected features with emphasis on the Common Object Request Broker Architecture and Java Remote Method Invocation Major Issues Include The TCP IP Protocol Suite We provide an introductory overview of the TCP IP protocol suite and its architecture including layers and protocols The TCP IP architecture is based on three concepts processes layers and protocols Sockets in Berkeley Unix We present the Berkeley UNIX socket architecture in relation to the Internet communication domain and illustrate connection oriented and a connectionless models of communication Sockets in Java 2 We describe the Java 2 socket architecture outline selected socket operations introduce related packages and classes and conclude with a framework for a connection oriented and connectionless model of communication Remote Method Invocation in Java 2 We present a distributed object model in Java RMI provide an overview of related interfaces classes and packages and discuss security related issues We conclude with the development of a framework for a distributed object application Common Object Request Broker Architecture We introduce a distributed object model for the Common Object Request Broker Architecture and outline design concepts including the Interface Definition Language and the Interoperable Naming Service We conclude with the development of a framework for a distributed object application Comparative Study of Distributed Architectures We present a comparative study of socket architectures and distributed object models introduced in part o

Engineering Distributed Objects Wolfgang Emmerich, Stefan Tai, 2003-06-29 This book constitutes the thoroughly refereed post proceedings of the Second International Workshop on Engineering Distributed Objects EDO 2000 held in November 2000 in Davis California USA The 15 revised full papers presented together with session surveys were carefully reviewed and selected from 30 submissions The book presents topical sections on middleware selection resource management architectural reasoning distributed communication advanced transactions and service integration

Fundamentals of Distributed Object Systems Zahir Tari, Omran Bukhres, 2004-04-07 Distributed Object Computing teaches readers the fundamentals of CORBA the leading architecture for design of software used in parallel and distributed computing applications Since CORBA is based on open standards it is the only effective way to learn object oriented

programming for distributed systems This language independent book allows material to be taught using Java C or other Object Oriented Programming Languages **A Theory of Distributed Objects** Denis Caromel, Ludovic Henrio, 2005-07-14 Distributed and communicating objects are becoming ubiquitous In global Grid and Peer to Peer computing environments extensive use is made of objects interacting through method calls So far no general formalism has been proposed for the foundation of such systems Caromel and Henrio are the first to define a calculus for distributed objects interacting using asynchronous method calls with generalized futures i e wait by necessity a must in large scale systems providing both high structuring and low coupling and thus scalability The authors provide very generic results on expressiveness and determinism and the potential of their approach is further demonstrated by its capacity to cope with advanced issues such as mobility groups and components Researchers and graduate students will find here an extensive review of concurrent languages and calculi with comprehensive figures and summaries Developers of distributed systems can adopt the many implementation strategies that are presented and analyzed in detail Preface by Luca Cardelli **Formal Techniques for Distributed Objects, Components, and Systems** Alexey Gotsman, Ana Sokolova, 2020-06-09 This book constitutes the proceedings of the 40th IFIP WG 6.1 International Conference on Formal Techniques for Distributed Objects Components and Systems FORTE 2020 held in Valletta Malta in June 2020 as part of the 15th International Federated Conference on Distributed Computing Techniques DisCoTec 2020 The 10 full papers and 1 short paper presented were carefully reviewed and selected from 25 submissions The conference is dedicated to fundamental research on theory models tools and applications for distributed systems The conference was held virtually due to the COVID 19 pandemic Chapter Conformance Based Doping Detection for Cyber Physical Systems is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com) Java Distributed Computing Jim Farley, 1998 This book shows how to build software in which two or more computers cooperate to produce results It covers Java's RMI Remote Method Invocation facility in addition to CORBA and strategies for developing a distributed framework It pays attention to often neglected issues such as protocol design security and bandwidth requirements Distributed Computing in Java 9 Raja Malleswara Rao Pattamsetti, 2017-06-30 Explore the power of distributed computing to write concurrent scalable applications in Java About This Book Make the best of Java 9 features to write succinct code Handle large amounts of data using HPC Make use of AWS and Google App Engine along with Java to establish a powerful remote computation system Who This Book Is For This book is for basic to intermediate level Java developers who is aware of object oriented programming and Java basic concepts What You Will Learn Understand the basic concepts of parallel and distributed computing programming Achieve performance improvement using parallel processing multithreading concurrency memory sharing and hpc cluster computing Get an in depth understanding of Enterprise Messaging concepts with Java Messaging Service and Web Services in the context of Enterprise Integration Patterns Work with Distributed Database technologies Understand how to develop and deploy a

distributed application on different cloud platforms including Amazon Web Service and Docker CaaS Concepts Explore big data technologies Effectively test and debug distributed systems Gain thorough knowledge of security standards for distributed applications including two way Secure Socket Layer In Detail Distributed computing is the concept with which a bigger computation process is accomplished by splitting it into multiple smaller logical activities and performed by diverse systems resulting in maximized performance in lower infrastructure investment This book will teach you how to improve the performance of traditional applications through the usage of parallelism and optimized resource utilization in Java 9 After a brief introduction to the fundamentals of distributed and parallel computing the book moves on to explain different ways of communicating with remote systems objects in a distributed architecture You will learn about asynchronous messaging with enterprise integration and related patterns and how to handle large amount of data using HPC and implement distributed computing for databases Moving on it explains how to deploy distributed applications on different cloud platforms and self contained application development You will also learn about big data technologies and understand how they contribute to distributed computing The book concludes with the detailed coverage of testing debugging troubleshooting and security aspects of distributed applications so the programs you build are robust efficient and secure Style and approach This is a step by step practical guide with real world examples *Enterprise JavaBeans* Richard Monson-Haefel, 2001 This third edition explains the underlying technology Java classes and interfaces component model and runtime behavior of Enterprise JavaBeans In addition the book contains an architecture overview information on resource management and primary services design strategies and XML deployment descriptors *Advances in Distributed Systems* Sacha Krakowiak, Santosh Shrivastava, 2003-06-26 In 1992 we initiated a research project on large scale distributed computing systems LSDCS It was a collaborative project involving research institutes and universities in Bologna Grenoble Lausanne Lisbon Rennes Rocquencourt Newcastle and Twente The World Wide Web had recently been developed at CERN but its use was not yet as common place as it is today and graphical browsers had yet to be developed It was clear to us and to just about everyone else that LSDCS comprising several thousands to millions of individual computer systems nodes would be coming into existence as a consequence both of technological advances and the demands placed by applications We were excited about the problems of building large distributed systems and felt that serious rethinking of many of the existing computational paradigms algorithms and structuring principles for distributed computing was called for In our research proposal we summarized the problem domain as follows We expect LSDCS to exhibit great diversity of node and communications capability Nodes will range from mobile laptop computers workstations to supercomputers Whereas mobile computers may well have unreliable low bandwidth communications to the rest of the system other parts of the system may well possess high bandwidth communications capability To appreciate the problems posed by the sheer scale of a system comprising thousands of nodes we observe that such systems will be rarely functioning in their entirety *Distributed Object Architectures with*

CORBA Henry Balen,2000-02-13 Distributed Object Architectures with CORBA is a guide to designing software comprised of distributed components While it is based on OMG s Common Object Request Broker Architecture CORBA standard the principles also apply to architecture built with other technology such as Microsoft s DCOM As ORB products evolve to incorporate new additions to CORBA the knowledge and experience required to build stable and scalable systems is not widespread With this volume the reader can develop the skills and knowledge that are necessary for building such systems The book assumes a familiarity with object oriented concepts and the basics of CORBA Software developers who are new to building systems with CORBA based technologies will find this a useful guide to effective development **COM and COM+**

Programming: Unveiling Distributed Object-Oriented Technology Pasquale De Marco,2025-04-16 In a world of interconnected systems and distributed computing COM and COM Programming Unveiling Distributed Object Oriented Technology stands as an indispensable guide for software developers seeking to harness the power of distributed object oriented programming This comprehensive book provides a profound understanding of the Component Object Model COM and Component Services COM the cornerstone technologies that have revolutionized the way software components interact and communicate across networks Delve into the depths of COM exploring its fundamental concepts architectural components and programming methodologies Grasp the essence of distributed object oriented programming unlocking its benefits and overcoming its challenges Master the intricacies of COM interfaces objects and servers gaining the knowledge to construct robust and scalable distributed applications Unveil the power of COM services unlocking the potential to create transactional queued and event driven components Delve into the techniques for developing consuming and debugging COM applications and master the best practices for effective COM programming Explore advanced COM concepts such as customizing extending and aggregating COM objects and delve into advanced security mechanisms to enhance the resilience of your applications Discover the intricacies of Distributed COM DCOM understanding its architecture configuration and troubleshooting techniques Implement object persistence with COM employing various strategies to ensure the durability of your objects Learn to leverage COM services to enhance your distributed applications achieving scalability reliability load balancing and failover Explore the future of COM and COM examining the challenges and limitations of these technologies and the emerging trends that are shaping the landscape of distributed object oriented programming Through a series of engaging case studies and real world examples COM and COM Programming Unveiling Distributed Object Oriented Technology provides a practical and comprehensive guide for software developers architects and system administrators who seek to master the art of building distributed applications with COM and COM Join us on this enlightening journey into the realm of distributed object oriented programming and unlock the full potential of COM and COM If you like this book write a review on google books [Distributed Applications and Interoperable Systems II](#) Lea Kutvonen,Hartmut König,Martti Tienari,2013-03-09 Mastering interoperability in a computing environment consisting of different operating systems and

hardware architectures is a key requirement which faces system engineers building distributed information systems. Distributed applications are a necessity in most central application sectors of the contemporary computerized society for instance in office automation banking manufacturing telecommunication and transportation. This book focuses on the techniques available or under development with the goal of easing the burden of constructing reliable and maintainable interoperable information systems. The topics covered in this book include Management of distributed systems Frameworks and construction tools Open architectures and interoperability techniques Experience with platforms like CORBA and RMI Language interoperability e.g. Java Agents and mobility Quality of service and fault tolerance Workflow and object modelling issues and Electronic commerce. The book contains the proceedings of the International Working Conference on Distributed Applications and Interoperable Systems II DAIS 99 which was held June 28 July 1 1999 in Helsinki Finland. It was sponsored by the International Federation of Information Processing IFIP. The conference program presents the state of the art in research concerning distributed and interoperable systems. This is a topical research area where much activity is currently in progress. Interesting new aspects and innovative contributions are still arising regularly. The DAIS series of conferences is one of the main international forums where these important findings are reported. *Proceedings of the Third International Network Conference (INC2002)* Paul Dowland, Steven Furnell, 2012-06-26. This book contains the proceedings of the Third International Network Conference INC 2002 which was held in Plymouth UK in July 2002. A total of 72 papers were accepted for inclusion in the conference and they are presented here in 8 themed chapters. The main topics of the book include Web Technologies and Applications Network Technologies Multimedia over IP Quality of Service Security and Privacy Distributed Technologies Mobility and Applications and Impacts. The papers address state of the art research and applications of network technology arising from both the academic and industrial domains. The book should consequently be of interest to network practitioners researchers academics and technical managers involved in the design development and use of network systems.

Objects, Components, Architectures, Services, and Applications for a Networked World Mehmet Aksit, Mira Mezini, Rainer Unland, 2003-07-01. This book constitutes the thoroughly refereed post proceedings of the international conference NetObjectDays 2002 held in Erfurt Germany in October 2002. The 26 revised full papers presented were carefully selected during two rounds of reviewing and revision. The papers are organized in topical sections on embedded and distributed systems components and MDA Java technology Web services aspect oriented software design agents and mobility software product lines synchronization testing refactoring and CASE tools. Computing in Object-Oriented Parallel Environments Denis Caromel, Rodney R. Oldehoeft, Marydell Tholburn, 2003-07-31. This volume contains the Proceedings of the International Symposium on Computing in Object Oriented Parallel Environments ISCOPE 98 held at Santa Fe New Mexico USA on December 8 11 1998. ISCOPE is in its second year and continues to grow both in attendance and in the diversity of the subjects covered. ISCOPE 97 and its predecessor conferences focused more narrowly on scientific computing.

in the high performance arena ISCOPE 98 retains this emphasis but has broadened to include discrete event simulation mobile computing and web based metacomputing The ISCOPE 98 Program Committee received 39 submissions and accepted 10 26% as Regular Papers based on their excellent content maturity of development and likelihood for widespread interest These 10 are divided into three technical categories Applications The first paper describes an approach to simulating advanced nuclear power reactor designs that incorporates multiple local solution methods and a natural extension to parallel execution The second paper discusses a Time Warp simulation kernel that is highly configurable and portable The third gives an account of the development of software for simulating high intensity charged particle beams in linear particle accelerators based on the POOMA framework that shows performance considerably better than an HPF version along with good parallel speedup

Tools and Environments for Parallel and Distributed Computing Salim Hariri, Manish Parashar, 2004-03-01 Zugänge zur parallelen Rechen-technik Dieses Buch behandelt ein breites Spektrum verschiedener Ansätze Sie erhalten einen aufschlussreichen Überblick über die leistungsfähigsten derzeit gebräuchlichen Tools Fallstudien stellen besonders erfolgreiche Implementationen aus Stanford MIT vor Im Vordergrund der Diskussion steht die Performance der Lösungen Die Autoren arbeiten am renommierten Northeast Parallel Architectures Center

Systems Development Methods for Databases, Enterprise Modeling, and Workflow Management Wita Wojtkowski, W. Gregory Wojtkowski, Stanislaw Wrycza, Jozse Zupancic, 2012-12-06 This book is a result of the ISD 99 Eight International Conference on Information Systems Development Methods and Tools Theory and Practice held August 11-13 1999 in Boise Idaho USA The purpose of this conference was to address the issues facing academia and industry when specifying developing managing and improving information systems ISD 99 consisted not only of the technical program represented in these Proceedings but also of plenary sessions on product support and content management systems for the Internet environment workshop on a new paradigm for successful acquisition of information systems and a panel discussion on current pedagogical issues in systems analysis and design The selection of papers for ISD 99 was carried out by the International Program Committee Papers presented during the conference and printed in this volume have been selected from submissions after formal double blind reviewing process and have been revised by their authors based on the recommendations of reviewers Papers were judged according to their originality relevance and presentation quality All papers were judged purely on their own merits independently of other submissions We would like to thank the authors of papers accepted for ISD 99 who all made gallant efforts to provide us with electronic copies of their manuscripts conforming to common guidelines We thank them for thoughtfully responding to reviewers comments and carefully preparing their final contributions We thank Daryl Jones provost of Boise State University and William Lathen dean College of Business and Economics for their support and encouragement

Intelligent Virtual World: Technologies And Applications In Distributed Virtual Environment Timothy K Shih, Paul P Wang, 2004-07-21 In recent years we have witnessed an explosive growth in multimedia computing communication and applications This revolution is

transforming the way people live work and interact with each other and is impacting the way business government services education entertainment and health care operate This important book summarizes recent research topics focusing on four major areas 1 intelligent content based information retrieval and virtual world 2 quality of services of multimedia data 3 intelligent techniques for distance education and 4 intelligent agents for e commerce This book has been selected for coverage in CC Engineering Computing Technology Index to Scientific Book Contents ISBC Distributed Systems Mr. Rohit Manglik,2024-07-08 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

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