

Sync vs Async Communication

Request and wait for a response
Fire and forget with messages/events

@lorenz/23

Synchronous



Request-response model

Send a request and wait for some response
Example: API requests

Asynchronous



Fire and Forget model

Send message/event and forget
Example: Event Driven Architecture

Async Communication Latest

Martin de Prycker



Async Communication Latest:

Recent Advances in the Message Passing Interface Claudia Blaas-Schenner, Christoph Niethammer, Tobias Haas, 2024-09-24 This volume LNCS constitutes the refereed proceedings of 31st European MPI Users Group Meeting EuroMPI 2024 held in Perth WA Australia during September 25 27 2024 The 8 full papers presented here were carefully reviewed and selected from 19 submissions These papers have been categorized under the following topical sections Compile time Correctness checks and optimization Limitations and Extensions for GPGPUs in MPI Improvements for MPI and MPI Ecosystem

Recent Advances in Parallel Virtual Machine and Message Passing Interface Alexey Lastovetsky, Tahar Kechadi, Jack Dongarra, 2008-09-15 This book constitutes the refereed proceedings of the 15th European PVM MPI Users Group Meeting held in Dublin Ireland in September 2008 The 29 revised full papers presented together with abstracts of 7 invited contributions 1 tutorial paper and 8 poster papers were carefully reviewed and selected from 55 submissions The papers are organized in topical sections on applications collective operations library internals message passing for multi core and multithreaded architectures MPI datatypes MPI I O synchronisation issues in point to point and one sided communications tools and verification of message passing programs The volume is rounded off with 4 contributions to the special ParSim session on current trends in numerical simulation for parallel engineering environments

[Recent Advances in Parallel Virtual Machine and Message Passing Interface](#) Marian Bubak, Jack Dongarra, Jerzy Wasniewski, 1997-10-15 This book constitutes the refereed proceedings of the 4th European Parallel Virtual Machine and Message Passing Interface Users Group Meeting PVM MPI 97 held in Cracow Poland in November 1997 Parallel Virtual Machine and Message Passing Interface are the most popular tools for programming in accordance with the message passing paradigm which at present is considered to be the best way to develop effective parallel programs The book presents 63 carefully selected papers covering the whole range of PVM MPI issues The papers are organized in sections on evaluation and performance extensions and improvements implementation tools algorithms and applications in science and engineering

[Building Microservices](#) Sam Newman, 2021-07-24 Distributed systems have become more fine grained as organizations shift from code heavy monolithic applications to smaller self contained microservices But developing these systems brings its own set of problems With lots of examples and practical advice this expanded second edition takes a holistic view of the topics system architects and administrators must consider when building managing and evolving microservices architectures Author Sam Newman provides you with a firm grounding in the concepts while diving into the latest solutions for modeling integrating testing deploying and monitoring your own autonomous services Through real world examples you ll learn how organizations worldwide are getting the most out of these architectures Microservices technologies are moving quickly This book brings you up to speed Get new information on user interfaces container orchestration and serverless Use microservices to align system design with your organization s goals Explore options for integrating a service with the rest of your system Take an

incremental approach when splitting monolithic codebases Deploy individual microservices through continuous integration Examine the complexities of testing and monitoring distributed services Manage security with expanded content around user to service and service to service models Understand the challenges of scaling microservices architectures **Beginning JavaScript** Jeremy McPeak, 2015-02-18 The bestselling JavaScript guide updated with current features and best practices Beginning JavaScript 5th Edition shows you how to work effectively with JavaScript frameworks functions and modern browsers and teaches more effective coding practices using HTML5 This new edition has been extensively updated to reflect the way JavaScript is most commonly used today introducing you to the latest tools and techniques available to JavaScript developers Coverage includes modern coding practices using HTML5 markup the JSON data format DOM APIs the jQuery framework and more Exercises with solutions provide plenty of opportunity to practice and the companion website offers downloadable code for all examples given in the book Learn JavaScript using the most up to date coding style Understand JSON functions events and feature detection Utilize the new HTML5 elements and the related API Explore new features including geolocation local storage and more JavaScript has shaped the Web from a passive medium into one that is rich dynamic and interactive No matter the technology on the server side it s JavaScript that makes it come alive in the browser To learn JavaScript the way it s used today Beginning JavaScript 5th Edition is your concise guide **Computer Supported Cooperative Work and Social Computing** Yuqing Sun, Tun Lu, Tong Wang, Hongfei Fan, Dongning Liu, Bowen Du, 2024-01-04 This two volume set constitutes the revised selected papers of the 18th CCF Conference on Computer Supported Cooperative Work and Social Computing ChineseCSCW 2023 held in Harbin China in August 2023 The 54 full papers and 28 short papers presented in these proceedings were carefully reviewed and selected from 221 submissions The papers are organized in the following topical sections Social Media and Online Communities Collaborative Mechanisms Models Approaches Algorithms and Systems Crowd Intelligence and Crowd Cooperative Computing Cooperative Evolutionary Computation and Human like Intelligent Collaboration Domain Specific Collaborative Applications **Computers in Sport** Peter Dabnichki, 2008 The use of computers in the sport and exercise sciences is now unquestioned They are employed in the functioning of laboratory facilities data collection data handling and prediction of forthcoming outcomes Recent advances are strongly affected by current developments in computer science and technology In particular progress in hardware processor speed storage capacity communication technology software tools information management concepts data bases data mining and media internet eLearning multimedia gives a great impetus This book written by leading experts in the interdisciplinary field of sport and computer science provides an overview on current fields of research and application covering fields such as virtual reality ubiquitous computing feedback systems and multimedia **Official Gazette of the United States Patent and Trademark Office**, 1997 Teaching a College-level Communication Course Via Asynchronous Learning Networks F. Jill Charboneau, 1999 *Data Communications*, 1996 **Computer Decisions**, 1982 **Proceedings ... International**

Symposium on Asynchronous Circuit and Systems, 2005 **Asynchronous Tools in Small Face-to-face Groups** M. Lynne Markus, 1989 *Asynchronous Transfer Mode* Martin de Prycker, 1991 **Journal of the American Medical Association** American Medical Association, 1922 *Self-excited Polyphase Asynchronous Generators* Lewis Fussell, 1908

Computer & Communications Decisions, 1987 **Asynchronous Transfer Mode Networks** Yannis Viniotis, Raif O. Onvural, 1993

Technical aspects of asynchronous transfer mode the mode of choice for broadband integrated services digital networks are discussed in 17 papers that comprise the proceedings of TRICOMM DEGREES93 held in Raleigh NC April 1993

Among the topics are electropolitical correctness traffic managemen *PC Tech Journal*, 1989 **Java EE and .NET Interoperability** Marina Fisher, 2006

It s a fact the NET and Java platforms exist in the enterprise with many touch points

Developers are very eager for information and examples on how the two environments can coexist

This book reflects our interoperability collaboration with Sun and provides best practices for using Web services to bridge NET and Java applications

DAN L LEWIN corporate vice president Developer Platform Evangelism Microsoft Corp

This book is a developer handbook for implementing interoperable applications and services

It includes actionable strategies for developers and best practices from the field experience

GREG PAPADOPOULOS chief technology officer Sun Microsystems

A comprehensive practical guide to developing applications that cross the Java EE NET boundary

BILL SMITH director business alliances Sun Microsystems

Efficient effective interoperability between Java EE and NET is a crucial element in the IT architecture of large enterprises and is vital to running a successful business

This book takes interoperability to the next level far beyond the cold coexistence of systems by describing effective strategies that allow you to achieve true interoperability while reducing complexity in your applications and your data center

Additionally it provides examples and practical advice on how to achieve this new level of interoperability and covers in depth all of the options available from bridging to porting to platform unification

The costs that this can save you from management maintenance and server consolidation are very significant

YAACOV COHEN chief executive officer Mainsoft

A complete and up to date coverage of Java EE NET security interoperability standards and related specifications

HUBERT A LE VAN GONG architect Sun Microsystems and the coauthor of Web SSO MEX Specification

Evolving Web services standards and technologies offer limited interoperability when it comes to security management and other important application characteristics

Successful interoperability solutions require comprehensive integration strategies that go beyond simple connections

The capability to mitigate security and reliability risks and transactional support is critical to interoperability

Java EE and NET Interoperability addresses issues encountered during the integration process such as a diverse technology set incompatible APIs and disparate environment maintenance

The experienced authors outline strategies approaches and best practices including messaging Web services and integration related frameworks and patterns

The book also introduces readers to Service Oriented Architecture SOA the building block for scalable and reliable enterprise integration solutions

This indispensable book provides the Java EE and NET developer

community with multiple strategies to integrate between Java EE and NET platforms that save developers time and effort Applying proven interoperability solutions significantly reduces the application development cycle Coverage includes Effective Java EE NET integration strategies and best practices Detailed enterprise coverage as well as standalone Java EE component integration with NET SOA as a building block for Java EE NET interoperability Interoperability security issues and risk mitigation Managing reliability availability and scalability for Web services built on Java EE and NET The latest interoperability standards and specifications including Web SSO MEX and WS Management Current interoperability technologies such as Windows Communication Foundation WSE 3 0 JAX WS and Enterprise Service Bus

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