

# Synchronous Communication

vs

# Asynchronous Communication

## SYNC

Real-time Response



SYNC



REST API



Good for Service  
(AWS S3)



Synchronous Communication

Simple to set up  
Simple to implement

Works well for  
Delayed response  
in Service API



Dependent on Service  
(AWS API)



## ASYNC

- Real-time response
- Dependent on service
- Uncontrolled latency



Dependent on implementation  
vs AWS S3 API

Works well for background response  
→ Delayed response



Works well for implementation  
(AWS S3)



KAFKA



Good for implementation  
(AWS SQS)

# Top Async Communication

**Jin-Ying Zhang**



### **Top Async Communication:**

On the Move to Meaningful Internet Systems: OTM 2011 Workshops Robert Meersman, Tharam Dillon, Pilar Herrero, 2011-11-09 This volume constitutes the refereed proceedings of nine international workshops EI2N NSF ICE ICSP INBAST ISDE MONET ORM SeDeS SWWS and VADER 2011 held as part of OTM 2011 in Hersonissos on the island of Crete Greece in October 2011 The 64 revised full papers presented were carefully reviewed and selected from a total of 104 submissions The volume also includes three papers from the On the Move Academy OTMA 2011 and five ODBASE 2011 poster papers Topics of the workshop papers are enterprise integration and semantics information centric engineering interoperability industrial and business applications of semantic Web applications information systems in distributed environments process management in distributed information system development distributed information systems implementation issues and applications industrial applications of fact oriented modeling data warehouse modeling extensions to fact oriented modeling model validation procedures schema transformations and mapping semantic Web and Web semantics ontology development deployment and interoperability data access and efficient computation efficient information processing exchange and knowledge synthesis algorithms mobile and networking technologies for social applications semantic and decision support variability in software architecture and dynamic and adaptive architectures **Typed**

**Lambda Calculi and Applications** Pierre-Louis Curien, 2009-06-29 This book constitutes the refereed proceedings of the 9th International Conference on Typed Lambda Calculi and Applications TLCA 2009 held in Brasilia Brazil in July 2008 in conjunction with RTA 2007 the 19th International Conference on Rewriting Techniques and Applications as part of RDP 2009 the 5th International Conference on Rewriting Deduction and Programming The 27 revised full papers presented together with 2 invited talks were carefully reviewed and selected from 53 submissions The papers present original research results that are broadly relevant to the theory and applications of typed calculi and address a wide variety of topics such as proof theory semantics implementation types and programming **Best Practices and Strategies for Online Instructors:**

**Insights From Higher Education Online Faculty** Doyle, Lori B., Tarbuton, Tanya M., 2024-11-15 Online higher education is on the rise and experienced instructors can play a pivotal role in supporting this key sector by sharing effective evidence based practices and strategies By mentoring less experienced faculty they can help ensure that online courses are engaging accessible and aligned with high academic standards Their insights are invaluable for building a strong adaptable online education environment that meets diverse student needs and fosters academic success Best Practices and Strategies for Online Instructors Insights From Higher Education Online Faculty serves as a collection of best practices and strategies as described by online faculty working in higher education It discusses challenges specific to teaching in the online classroom and actionable steps for integrating best practices Covering topics such as adult online learners higher education institutions HEIs and virtual environments this book is an excellent resource for higher education faculty educators administrators

policymakers and more      **Portable C++** Patricia Giencke,1996 Many books discuss how to use C but none deals with how to write C code in a portable manner The first in depth guide to address the special needs of the C programmer this groundbreaking book provides a set of guidelines to help software engineers design and implement C applications that work with the many flavors of UNIX as well as with Windows      **Programming Languages and Systems** Giuseppe Castagna,2009-03-28 This book constitutes the refereed proceedings of the 18th European Symposium on Programming ESOP 2009 held in York UK in March 2009 as part of ETAPS 2009 the European Joint Conferences on Theory and Practice of Software The 26 revised full papers presented together with two abstracts of invited talks were carefully reviewed and selected from 98 full paper submissions The topics addressed are typed functional programming computational effects types for object oriented languages verification security concurrency service oriented computing parallel and concurrent programming      **US Black Engineer & IT** ,1985      **Symbian OS Communications Programming** Michael J. Jipping,2002-08-02 A developer s guide to the Symbian OS communications architecture The Symbian OS communications architecture is the cornerstone of Symbian OS enabling the combination of voice communications wireless Internet access and computing functionality This book is designed to help developers understand the Symbian platform and learn how to develop and deliver those vital products that plug in to the comms architecture Services built around this architecture will drive the 3G market Covers both architectural and hands on programming perspectives of the Symbian OS Comms Architecture Demonstrates how to use the Symbian OS Comms APIs from C and Java Includes coverage of technologies including serial comms sockets IRDA TCP IP and PPP Bluetooth Telephony GSM Messaging Email Fax SMS HTTP HTML WAP WML and more      *Official Gazette of the United States Patent and Trademark Office* United States. Patent and Trademark Office,1999      **Official Gazette of the United States Patent and Trademark Office** ,1999      *Holonic Control for Large Scale Automated Logistic Systems* Cornelis Versteegt,2004      Telecommunications Abstracts ,1990      COM and DCOM Roger Sessions,1998 This book teaches software developers the pros and cons of Component Object Model COM and Distributed Component Object Model DCOM It explains how to use COM and DCOM with their existing systems how they fit into two and three tier client server architectures and new technologies from Microsoft such as Transaction Server and Falcon      *Electrical Communication* ,1925      **Client/server Programming with OS/2 2.1** Robert Orfali,Dan Harkey,1993      *Computers, Communications, and Information* Sarah E. Hutchinson,Sarah Hutchinson Clifford,Stacey C. Sawyer,1998 Designed for the introduction to computers or computer literacy course found in the business or CIS department at two year and four year schools      **2nd International Symposium on Advanced Research in Asynchronous Circuits and Systems** Institute of Electrical and Electronics Engineers, Inc. Staff,1996-03 Papers from the March 1996 symposium detail the latest knowledge in asynchronous hardware design in sections on high speed design logic synthesis architectural synthesis formal methods novel techniques design automation and measurements low power and

system design and logic optimization The **OCLC Communications Controller User Guide** OCLC,1991 **COM+ and the Battle for the Middle Tier** Roger Sessions,2000-02-14 COM the next generation of COM DCOM and MTS is here Now best selling author Roger Sessions offers an unbiased introduction to COM and the fascinating world of Component Oriented Middleware COMWare In this book you ll learn the new features of COM and how it fits in with other Microsoft technologies how COM compares to CORBA 3 0 and Enterprise JavaBeans and how to plan your future N tier enterprise applications To demonstrate how Microsoft s middle tier technologies are being utilized in some of today s largest applications Sessions then presents three case studies from Dell Silknet and Acentris complete with business requirements architectural overviews system benchmarks and lessons learned Whether you re an IT executive planning your company s middle tier strategy a programmer trying to understand the new features of COM or an analyst interested in the differences between COM EJB and CORBA 3 0 this book is for you Advance praise for Roger Sessions s new book Roger has a gift for relating the somewhat esoteric topic of distributed computing to the everyday world COM and the Battle for the Middle Tier provides a fine introduction to the problems addressed by the middle tier and the solutions offered by Microsoft s COM MARY KIRTLAND Program Manager Microsoft Corp Although I often don t agree with Roger Sessions s opinions and conclusions I always enjoy reading his work This book on COM is no exception Roger uses simple real world scenarios to explain very complex concepts about distributed computing components and scalable transaction processing and his frequent play on words had me laughing out loud For those who are true believers of the Microsoft way this book may become your bible It certainly will provide you with plenty of arguments to defend your technology choice For those who believe in CORBA and EJB this book will help you understand the strong appeal that Windows NT and COM have But keep the faith and don t be swayed ANNE THOMAS Senior Analyst Patricia Seybold Group Visit our Web site at [www.wiley.com/compbooks](http://www.wiley.com/compbooks) **Flow Simulation with High-performance Computers I** Ernst-Heinrich Hirschel,1993 [Agreeing on Processor Group Membership in Asynchronous Distributed Systems](#) Flaviu Cristian,1995

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