

# Synchronous Communication

vs

# Asynchronous Communication

## SYNC

Real-time Response

SYNC



REST API



Not suitable for Service (AWS S3)



Synchronous Communication

Simple to simulate to implement

Works well  
Delayed response in Service API



Dependent for 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 implementation (AWS S3)



KAFKA



Some other implementation (AWS SQS)

# Top Async Communication

**Doyle, Lori B., Tarbutton, Tanya M.**

## **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**

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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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## **Table of Contents Top Async Communication**

1. Understanding the eBook Top Async Communication
  - The Rise of Digital Reading Top Async Communication
  - Advantages of eBooks Over Traditional Books
2. Identifying Top Async Communication
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Top Async Communication
  - User-Friendly Interface
4. Exploring eBook Recommendations from Top Async Communication
  - Personalized Recommendations
  - Top Async Communication User Reviews and Ratings
  - Top Async Communication and Bestseller Lists
5. Accessing Top Async Communication Free and Paid eBooks
  - Top Async Communication Public Domain eBooks
  - Top Async Communication eBook Subscription Services

- Top Async Communication Budget-Friendly Options
- 6. Navigating Top Async Communication eBook Formats
  - ePub, PDF, MOBI, and More
  - Top Async Communication Compatibility with Devices
  - Top Async Communication Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Top Async Communication
  - Highlighting and Note-Taking Top Async Communication
  - Interactive Elements Top Async Communication
- 8. Staying Engaged with Top Async Communication
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Top Async Communication
- 9. Balancing eBooks and Physical Books Top Async Communication
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Top Async Communication
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Top Async Communication
  - Setting Reading Goals Top Async Communication
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Top Async Communication
  - Fact-Checking eBook Content of Top Async Communication
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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