

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

American Medical Association



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, 2008-08-28 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

The Timewheel

Asynchronous Group Communication Protocol Christof Fetzer, 1995

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 **On-demand Asynchronous Atomic Broadcast** Guillermo A. Alvarez,1995 Asynchronous Tools in Small Face-to-face Groups M. Lynne Markus,1989 **Journal of the American Medical Association** American Medical Association,1922 Self-excited Polyphase Asynchronous Generators Lewis Fussell,1908 High-performance Asynchronous Atomic Broadcast Flaviu Cristian,1995 **Digital Communications Programming on the IBM PC** W. David Schwaderer,1984 *Sophisticated Programmers Learn How to Create Their Own Tailor Made Communications Software Tap into Major Data Bases Such as Dow Jones CompuServe the Source Special Attention Is Paid to Maintaining the Security of Home or Office Systems* **ACM Transactions on Software Engineering and Methodology** ,2003 The New Internet Business Book Jill H. Ellsworth,Matthew V. Ellsworth,1996-01-31 Extensively revised and updated this book shows users what their business can do to the Net and how to do it It offers step by step advice for getting on the Internet and conducting all sorts of business from doing market research and obtaining competitive information to announcing products and making sales The list of Internet business resources has also been expanded **PC Tech Journal** ,1989

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