

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

Advanced Async Communication

Michal Rosen-Zvi



Advanced Async Communication:

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

Low-Power Processors and Systems on Chips Christian Piguet, 2018-10-03 The power consumption of microprocessors is one of the most important challenges of high performance chips and portable devices In chapters drawn from Piguet's recently published *Low Power Electronics Design* this volume addresses the design of low power microprocessors in deep submicron technologies It provides a focused reference for specialists involved in systems on chips from low power microprocessors to DSP cores reconfigurable processors memories ad hoc networks and embedded software *Low Power Processors and Systems on Chips* is organized into three broad sections for convenient access The first section examines the design of digital signal processors for embedded applications and techniques for reducing dynamic and static power at the electrical and system levels The second part describes several aspects of low power systems on chips including hardware and embedded software aspects efficient data storage networks on chips and applications such as routing strategies in wireless RF sensing and actuating devices The final section discusses embedded software issues including details on compilers retargetable compilers and coverification tools Providing detailed examinations contributed by leading experts *Low Power Processors and Systems on Chips* supplies authoritative information on how to maintain high performance while lowering power consumption in modern processors and SoCs It is a must read for anyone designing modern computers or embedded systems

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web work done by svante arrhenius in the late 19th century set the groundwork for our current understanding of acid base theory despite the relatively limited technology available to him he was able to develop theories that adequately explained the properties and chemical reactivity of many acids and bases

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web the arrhenius theory of acids and bases acids are substances that produce hydrogen ions in solution bases are substances that produce hydroxide ions in solution neutralization happens because hydrogen ions and hydroxide ions react to produce water $\text{H}^+ + \text{OH}^- \rightarrow \text{H}_2\text{O}$ hydrochloric

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web aug 15 2020 the equilibrium formulated in scheme 1 between hydrogen ion and the corresponding acid and base can be called a simple acid base equilibrium by mixing two simple systems a double acid base system and an acid base equilibrium result that can always be formulated as follows $\text{acid}_1 + \text{base}_2 \rightleftharpoons \text{acid}_2 + \text{base}_1$

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