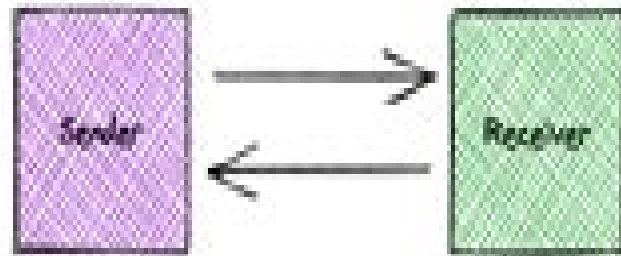


Sync vs Async Communication

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

@lorey/23

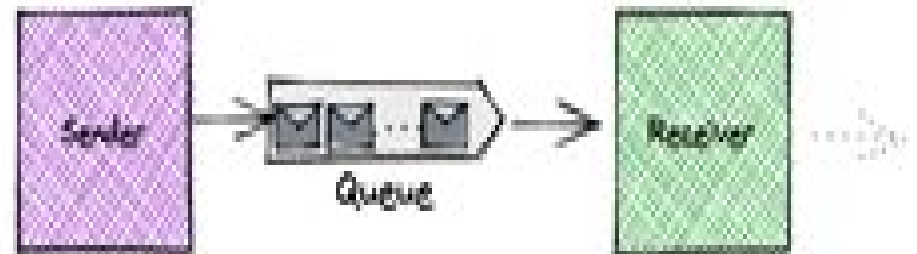
Synchronous



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

Jianjun Gao



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.

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