

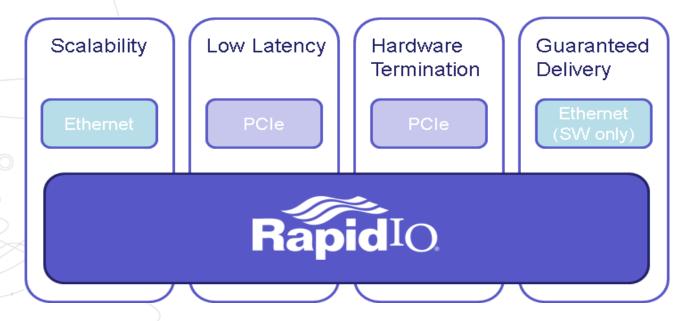


- > A packet-switched high-performance interconnect
- > Used in 4G base stations worldwide



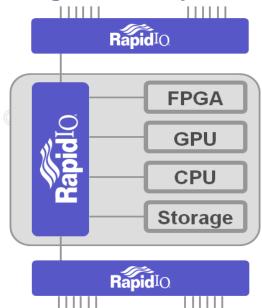


Combines features of Ethernet and PCIe





> Supports heterogeneous systems





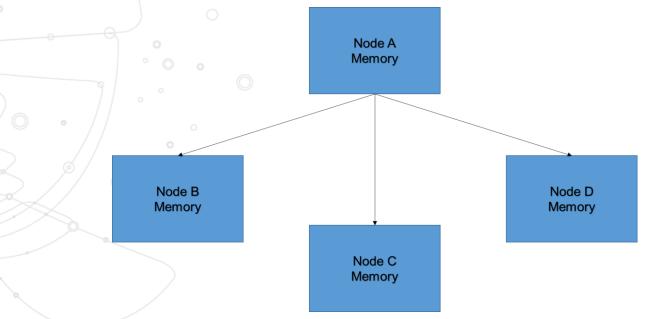
Data is transmitted using:

- > Channelized Messages
 - Typically used for orchestration
 - Limited in size
- > Remote Direct Memory Access
 - Supports zero copy
 - Typically used for large data transactions



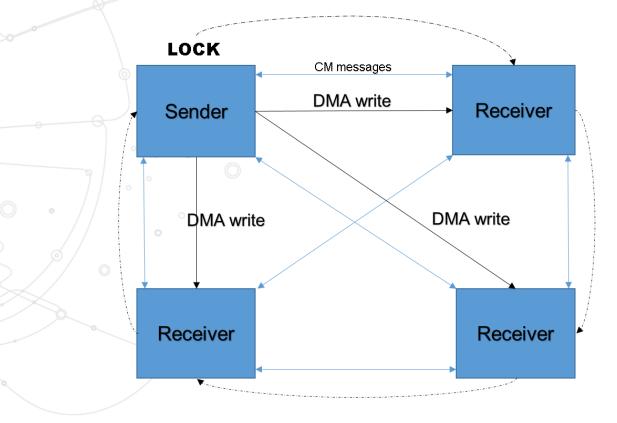
Motivation

> Explore multicast capabilities of RapidIO – perform multicast DMA writes





Application Flow Control



— CM flow

-- Lock flow

— DMA write flow



Project Activities

- > Created multicast chat application infrastructure:
 - Established connections
 - Performed multicast remote DMA writes
 - Implemented locking mechanism
- > Currently measuring performance
 - Latency
 - Reliability



Future Work

- > Complete measuring application performance
- > Create interface for multicast chat application