



rxe - a soft rocee linux driver

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- Goals
- Applications
- Architecture
- Performance
- Status

Goals



- Soft implementation of IB transport
 - Motivation and clues from the ipath driver
 - Interoperate with CX-EN
- Support generic Ethernet devices
 Attach above netdev core
- Moderate performance
- Ability to push upstream

Applications



- Low cost gateway to OFED software
- Asymmetric IO deployments
- Low to moderate performance
- Training and test platform

Architecture(1)





Architecture(2)





Receive Task





ResponderTask











Arbiter Task





Bandwidth Performance





Latency Performance









- OFED performance and examples working
- MPI has bugs
- RDS limited testing
- Have backports for RHEL/SLES
- New git tree at OFA soon
 - Meanwhile just ask
- Focus on system and performance testing
- Self discipline vs backpressure