Abstract

Infiniband is a new system interconnection protocol that provides high bandwidth, expandability, and scalability. This paper presents the Implementation of the Link layer of Infiniband for 1x Transmitter and Receiver. The Link Layer provides a number of services for the upper layers including data verification and error detection, flow control and buffering among others. In the InfiniBand HCA (Host Channel Adapter). Six VLs (Virtual Lanes), three for transmit and three for receive, are used to communicate data between the Transport Layer and the Link Layer. This paper describes the distribution and Translation of the Link Layer packet byte stream to the physical lanes.
Implementation of InfiniBand for 1x Trancevier

References


Index Terms

Computer Science
Circuits And Systems

Keywords

InfiniBand Specification packet Receiver Machine