

A Study on One-way Communication using PF_RING ZC

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Keywords: One-way Communication, Data Diode, Unidirectional network, PF_RING ZC, ICS

Abstract:

Commercial Off The Shelf(COTS) based one-way communication is advantageous in that support a low cost communication and high speed one-way communication.

This paper provides a implementation method of one-way communication through modified device driver for COTS NIC. Then, To verify the advantage of the COTS based one-way communication method, We present a sample implementation using Intel 82580 NIC and PF_RING ZC(Zero Copy). Then, we present a possibility that can contribute to the realization of one-way communication through experiments on performance and reliability.



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