Use case of RDMA in Symantec storage software stack

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Agenda

- About Symantec Storage Software Stack
- Need for the faster interconnects
- Write operation without and with RDMA
- Implementation details: Write operation with RDMA
- Perf comparison (without and with RDMA)
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Need for the faster interconnects

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Write operation without and with RDMA

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Write operation with RDMA

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Perf comparison (without and with RDMA)

1) Throughput
2) Latency

Setup configuration
- Two node Linux (RHEL6.3) cluster
- ConnectX3 VPI NIC card from Mellanox
  - IB -56 Gbps
  - RoCE-40 Gbps
  - Eth-40 Gbps
- 3.3GHz Processor

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LLT perf comparison: Throughput

Graph of Throughput Vs Packet Size

Higher is better

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March 30 – April 2, 2014 #OFADevWorkshop
LLT perf comparison: Latency

Graph of Latency (RTT) Vs Packet Size

Lower is better

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Thank You