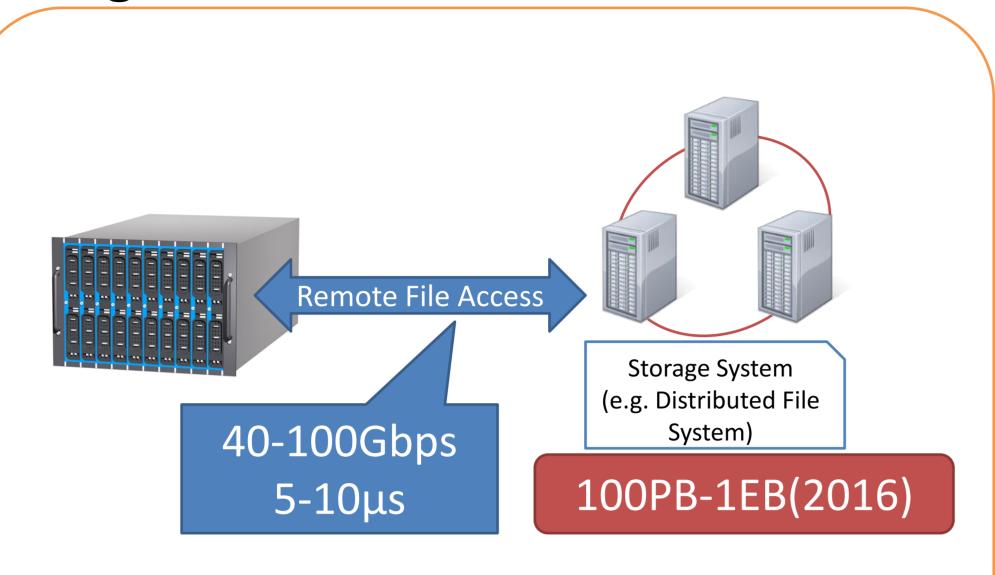
Remote File Access with Infiniband RDMA

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Background

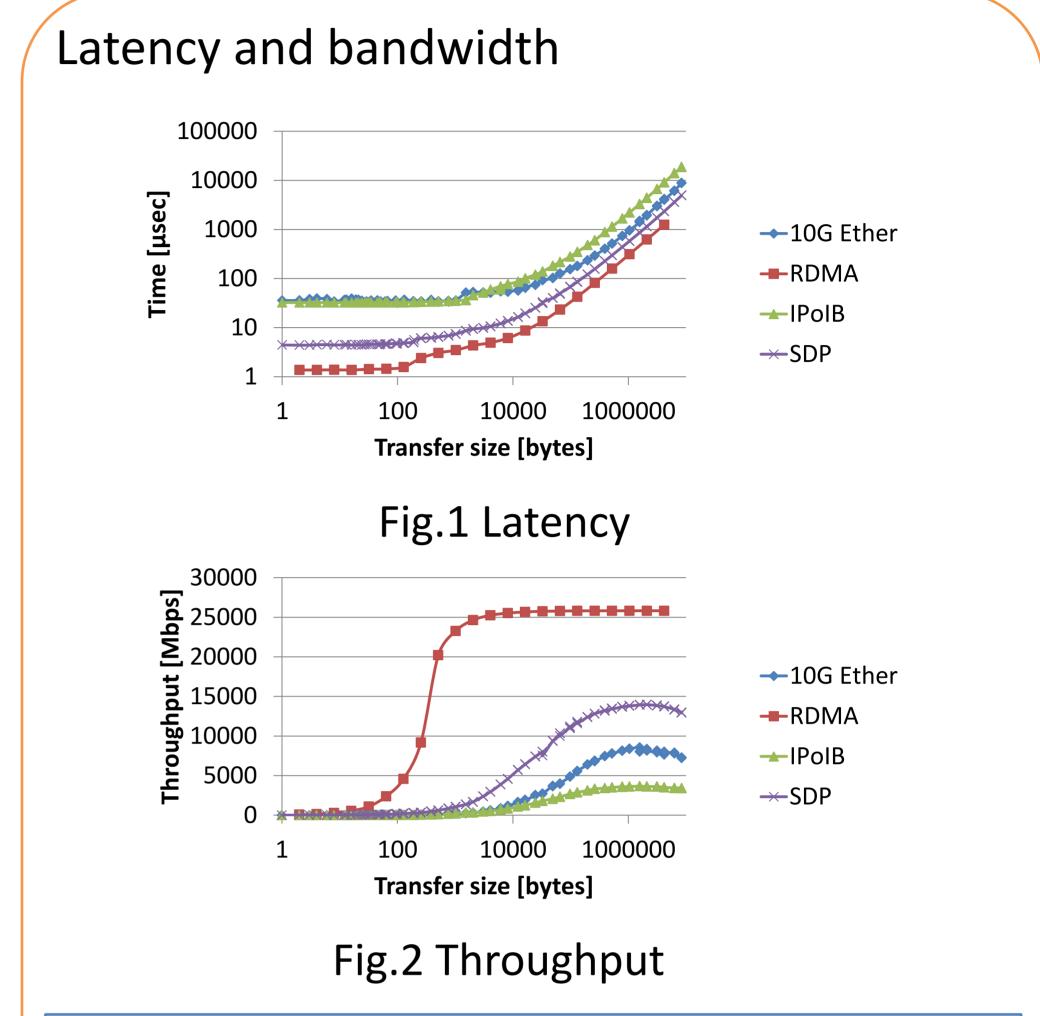


Performance of the remote file access depends on these three factors:

- Access pattern
- Network delay
- Network bandwidth

This poster describes how to improve the performance of remote file access by using Infiniband RDMA transfer.

Infiniband QDR Network



RDMA reduces network latency and enhances throughput.

Infiniband RDMA Transfer

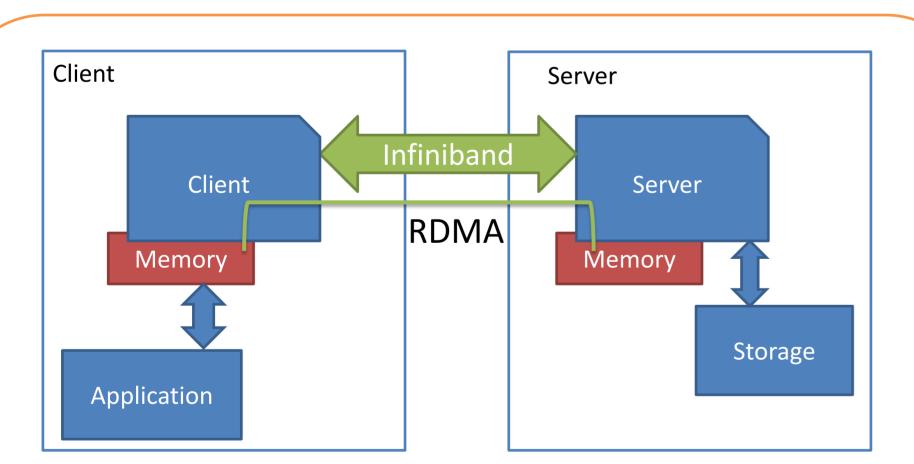


Fig.3 Remote file access with RDMA

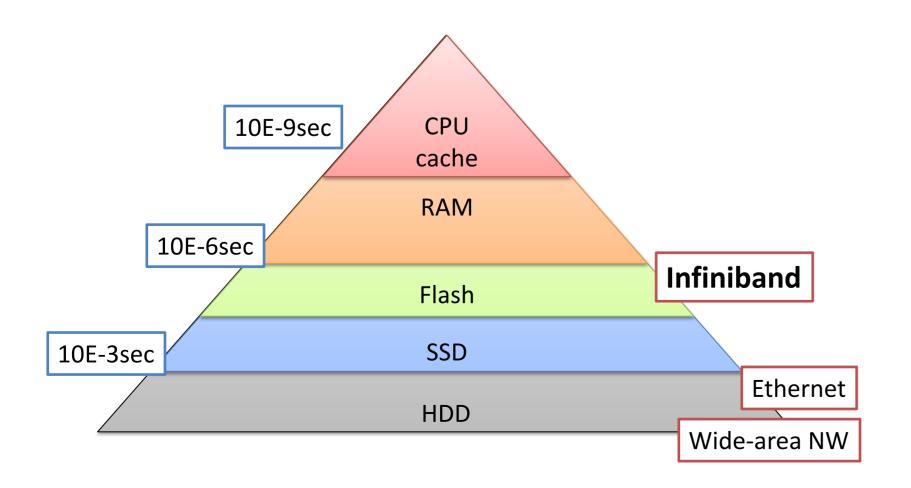


Fig.4 Memory hierarchy versus network bandwidth/latency

Evaluation

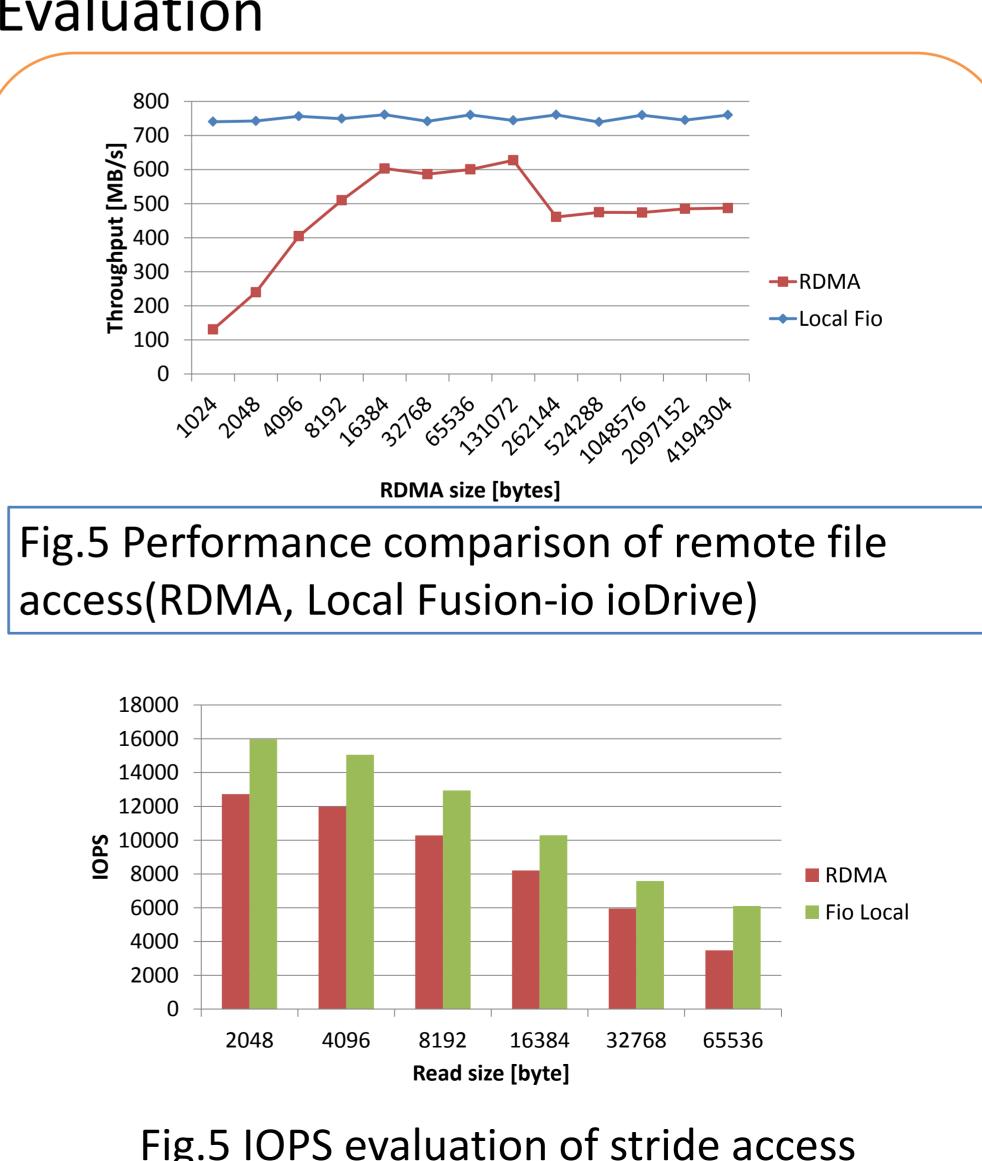


Fig.5 IOPS evaluation of stride access