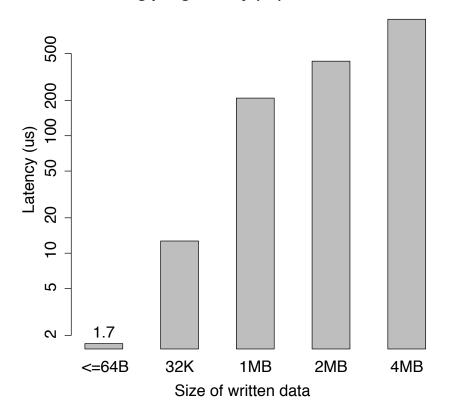
Firebox Network Benchmark

Ping pong latency (us) in Firebox v0



SockPerf Ping Pong Latency in Fbox

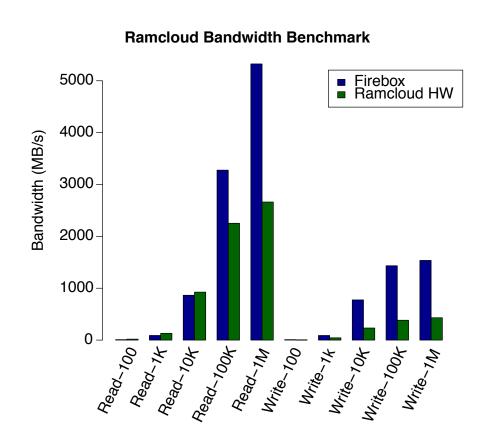
Without VMA*	4.8 us
With VMA	1.3 us

RDMA Ping Pong Latency

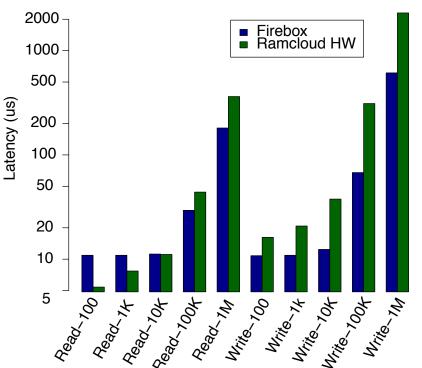
Firebox v0	1.7 us
Ramcloud HW	3.1 us

^{*}VMA = Mellanox socket library with kernel bypass

Ramcloud Read/Write benchmark (Bandwidth/latency)



Ramcloud Latency Benchmark (90th percentile) - Log scale



SSD vs PCle Samsung Drives Benchmark

IO Ping Average Latency (us) Benchmark

PCle	152
SSD	118

Buffered Reads Bandwidth (MB/s) Benchmark

PCle	1135
SSD	435