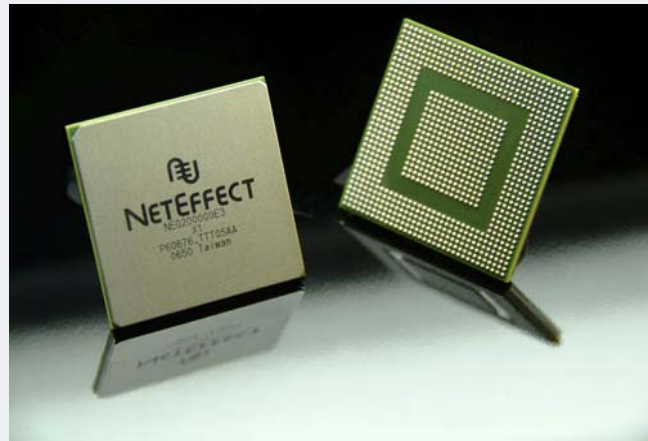


NETEFFECT

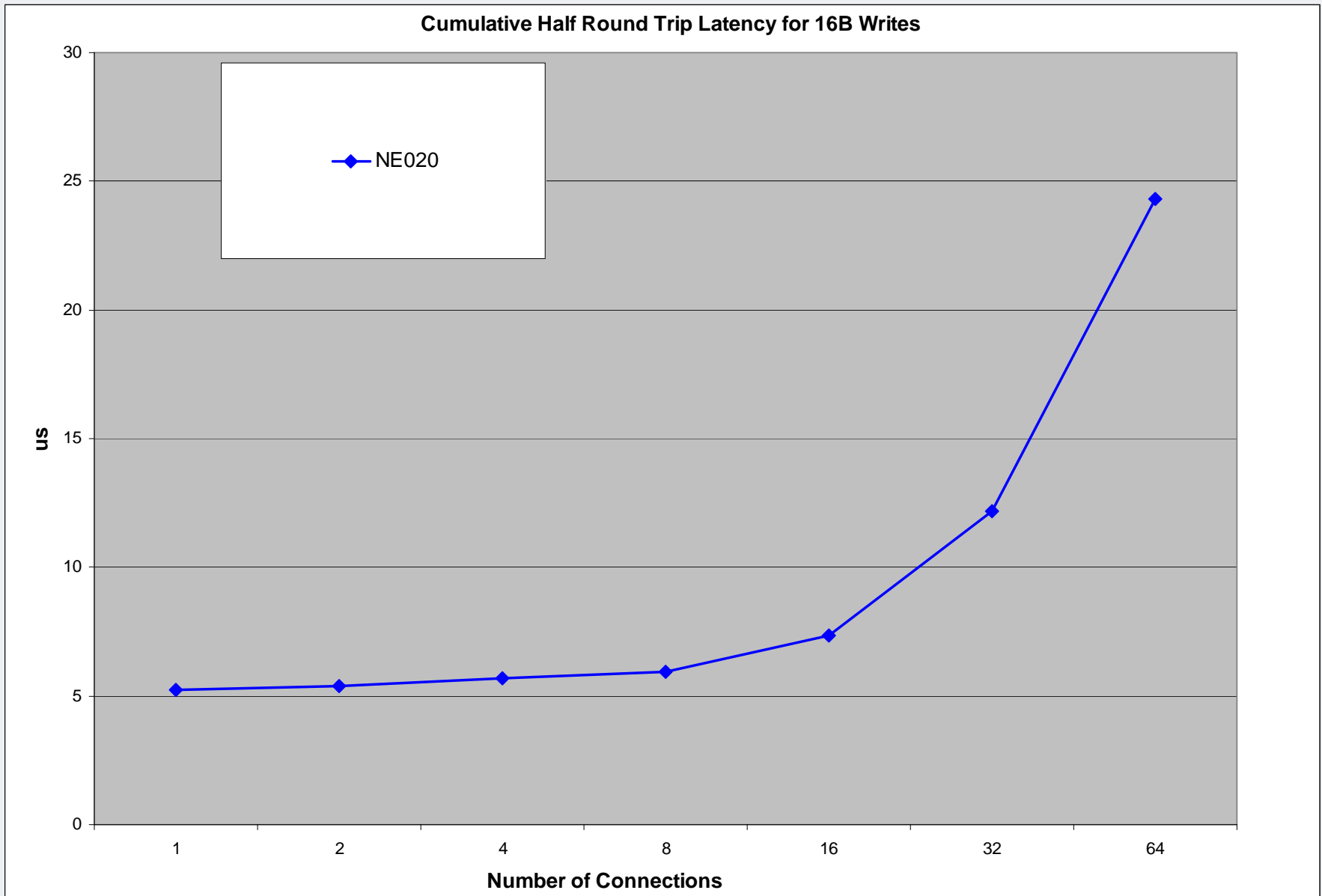


Leader in Next Generation Ethernet

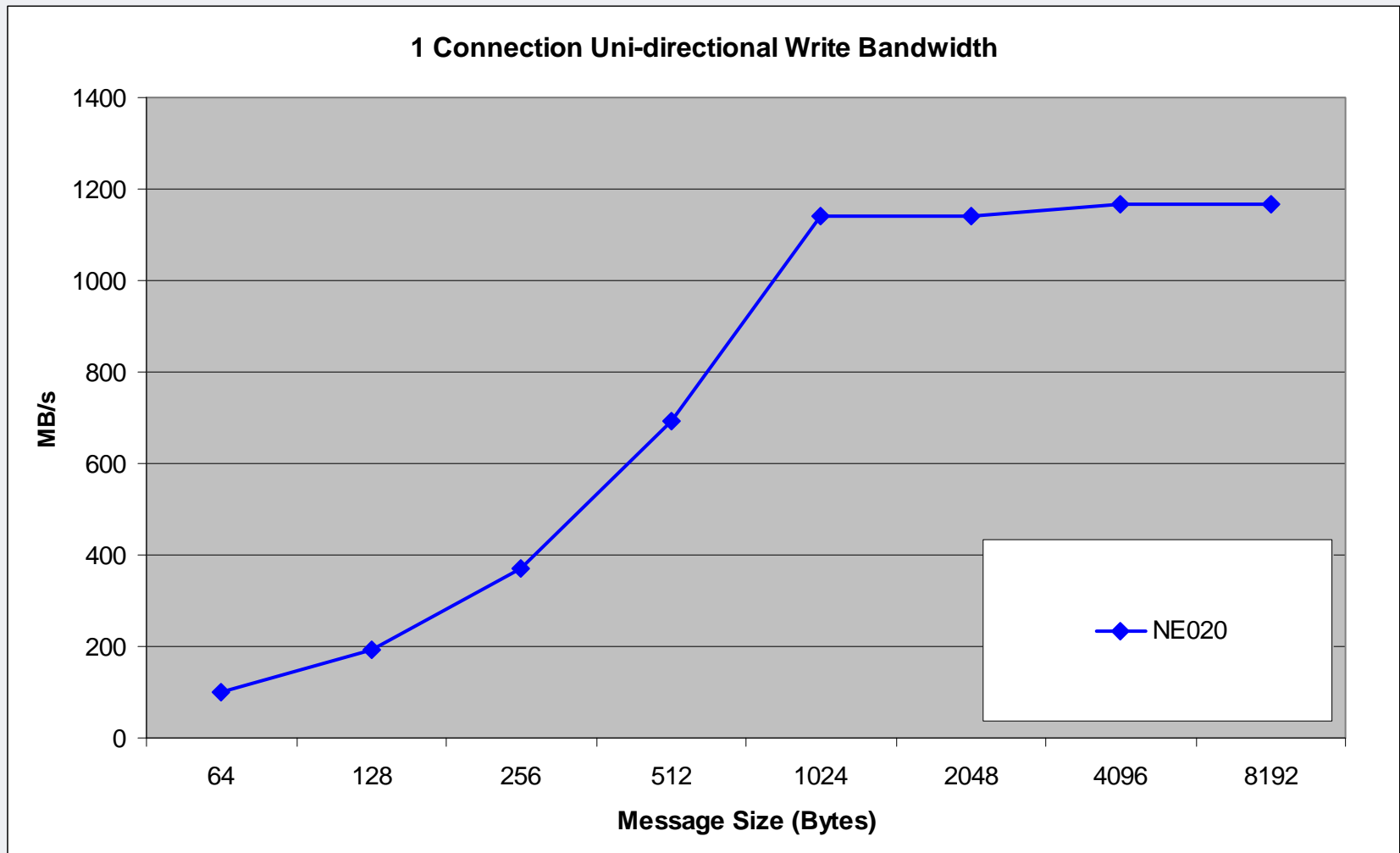
iWARP: “From Benchmarks to Applications”

- Where is iWARP Today?
- Some Proof Points
- Conclusion
- Questions

Sustained Low Latency in Multi-Processor/Multi-Core Systems



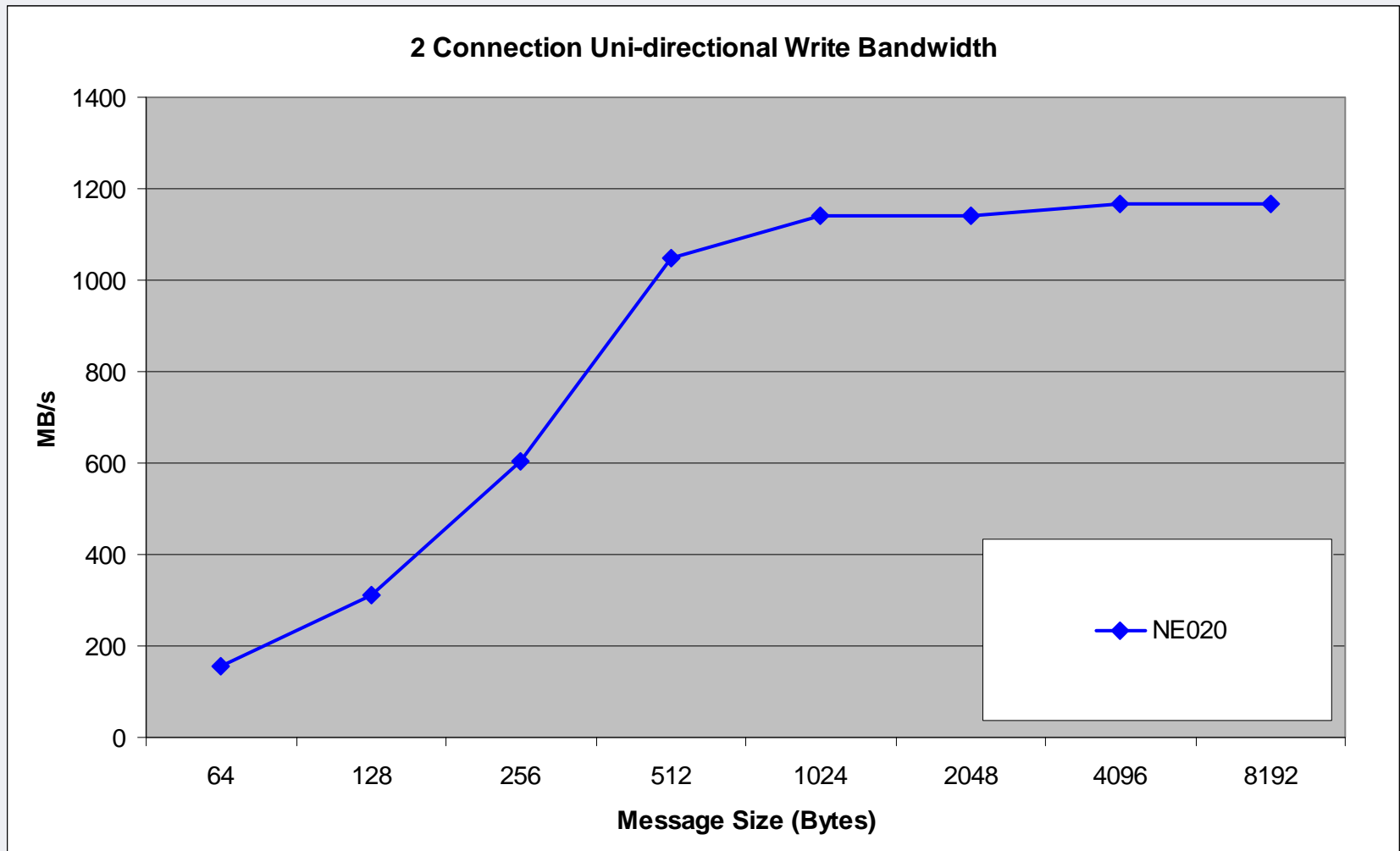
Industry Leading Multiple Connection Throughput



Predominant RDMA Command for:

Intel MPI, MVAPICH2, HP MPI, Scali MPI, OpenMPI, MPICH2, iSER

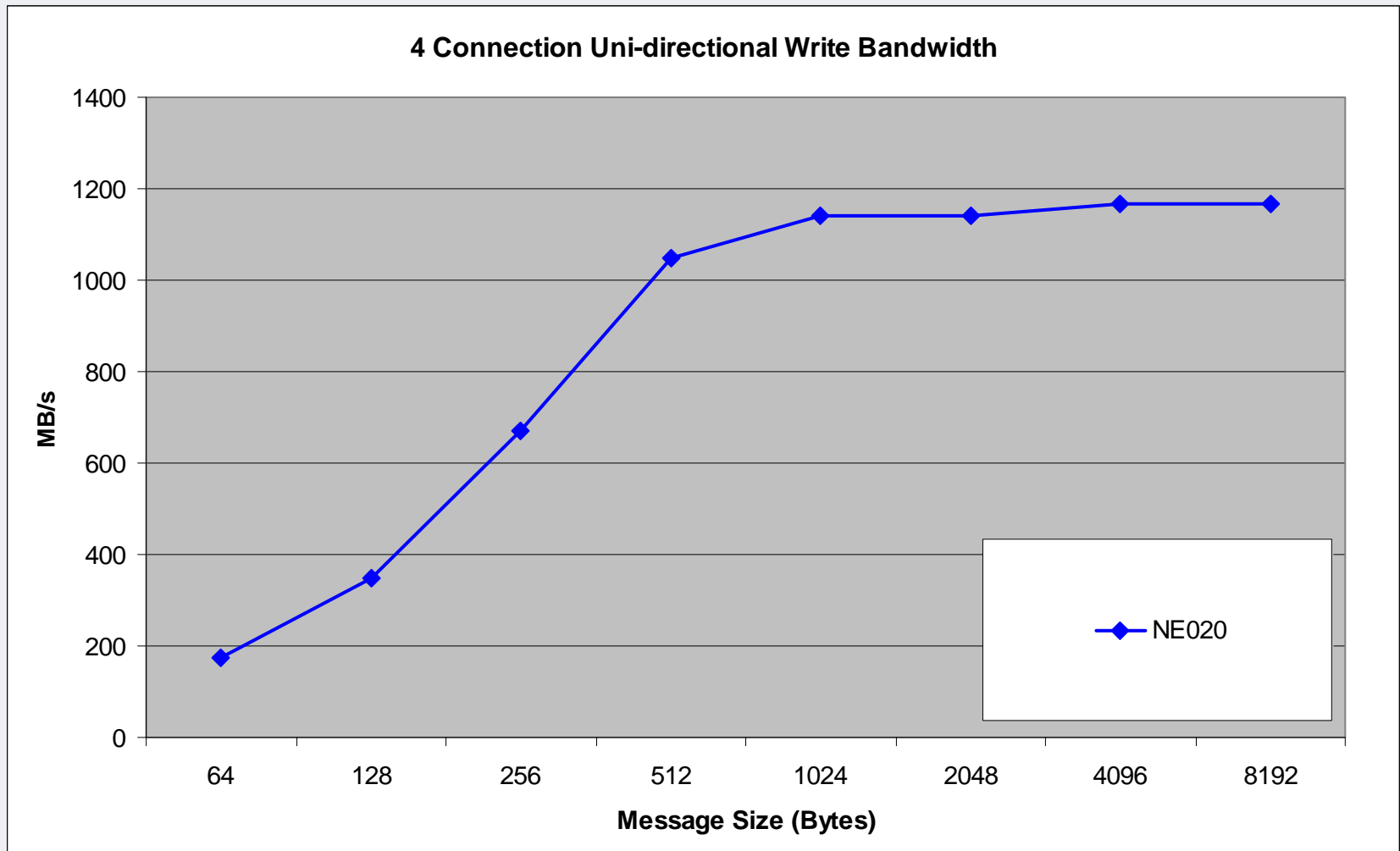
Industry Leading Multiple Connection Throughput



Predominant RDMA Command for:

Intel MPI, MVAPICH2, HP MPI, Scali MPI, OpenMPI, MPICH2, iSER

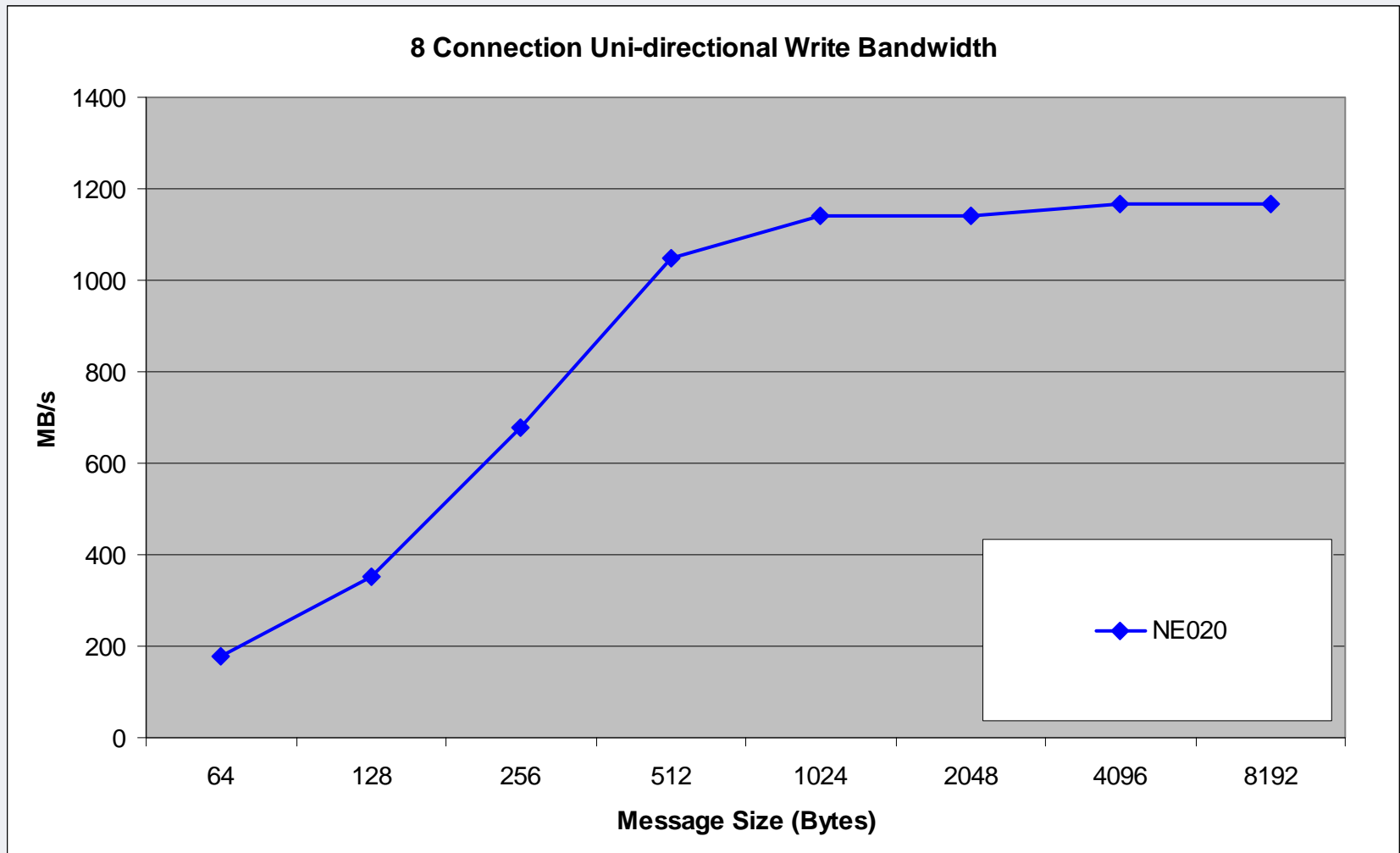
Industry Leading Multiple Connection Throughput



Predominant RDMA Command for:

Intel MPI, MVAPICH2, HP MPI, Scali MPI, OpenMPI, MPICH2, iSER

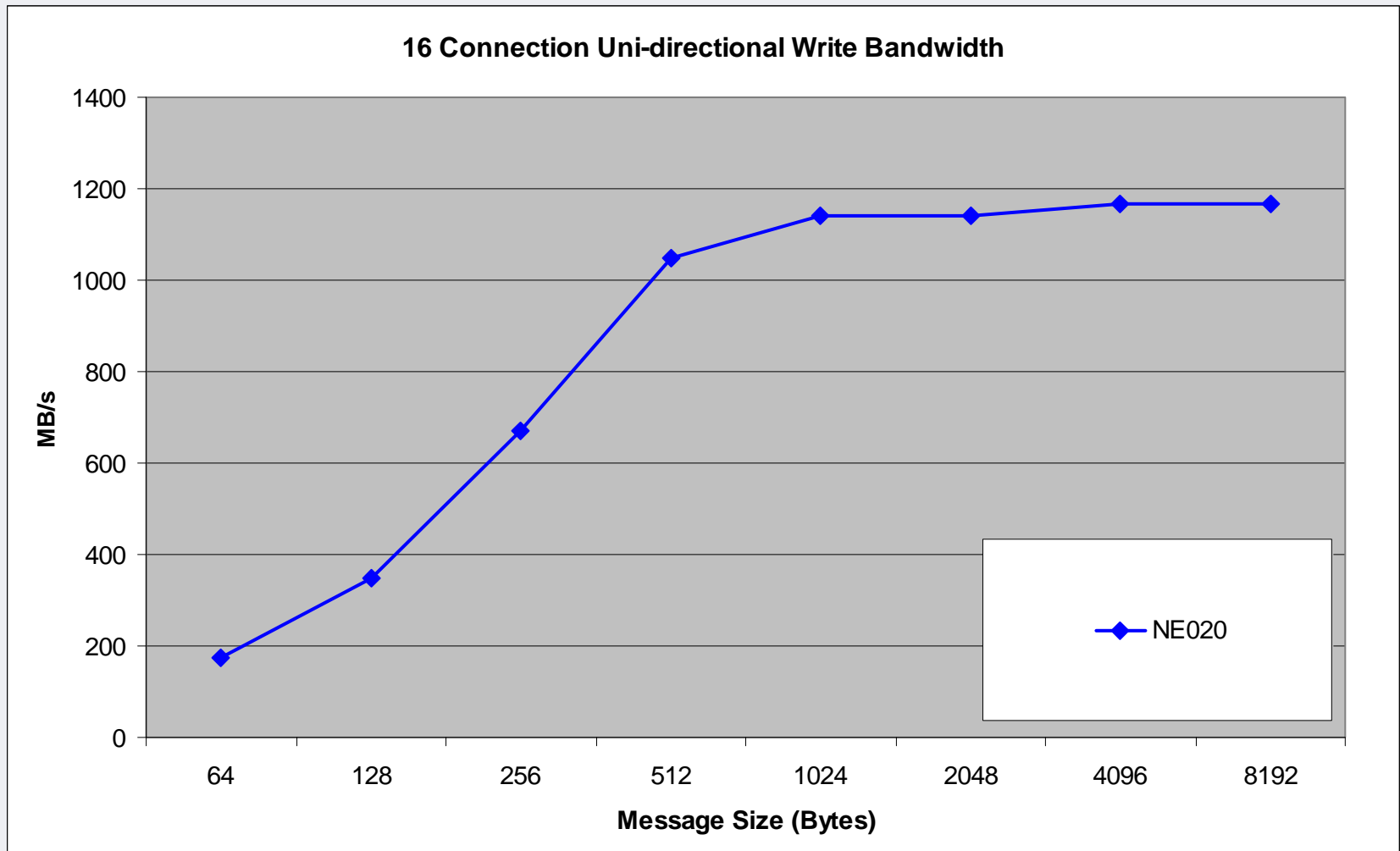
Industry Leading Multiple Connection Throughput



Predominant RDMA Command for:

Intel MPI, MVAPICH2, HP MPI, Scali MPI, OpenMPI, MPICH2, iSER

Industry Leading Multiple Connection Throughput



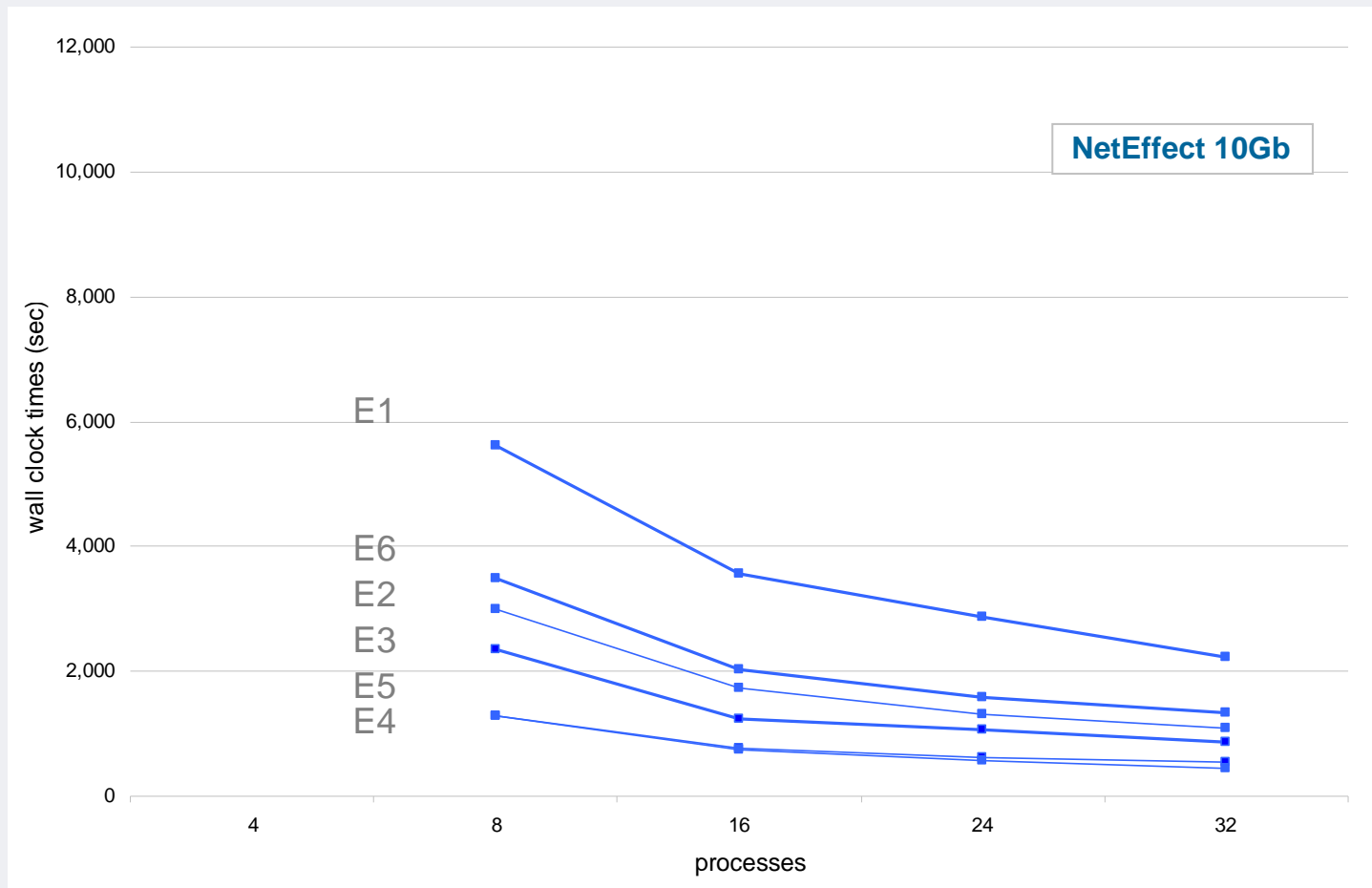
Predominant RDMA Command for:

Intel MPI, MVAPICH2, HP MPI, Scali MPI, OpenMPI, MPICH2, iSER

In Production Applications Now...

10Gb iWARP Ethernet achieves production scale out

Abaqus/Explicit: finite element analysis test suite (E1-E6)



In Production Applications Now...

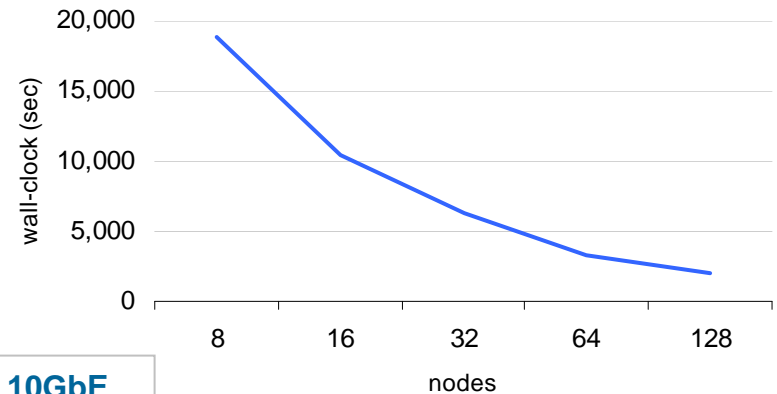
10Gb iWARP Ethernet achieves production scale out

PAM-CRASH crash simulation

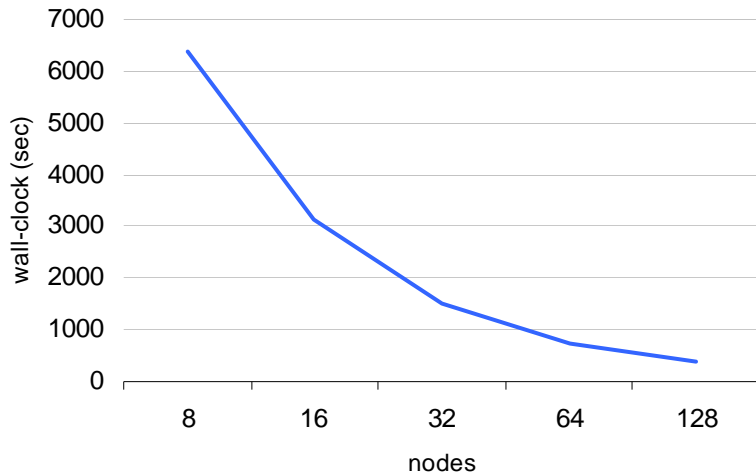
- Unmodified
- Automatically scaled across nodes
- Wall-clock times equal to or better than any other clustering fabric

NetEffect NE020 10GbE

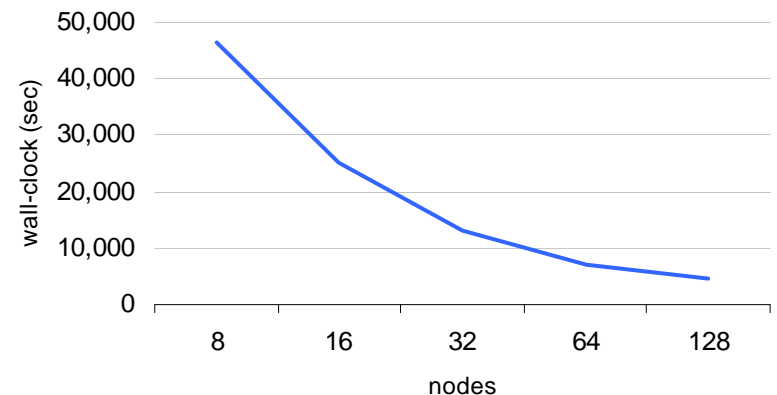
m13 Dataset (100% Frontal Crash)



Neon Simulation



bm1 Dataset (100% Side Impact)

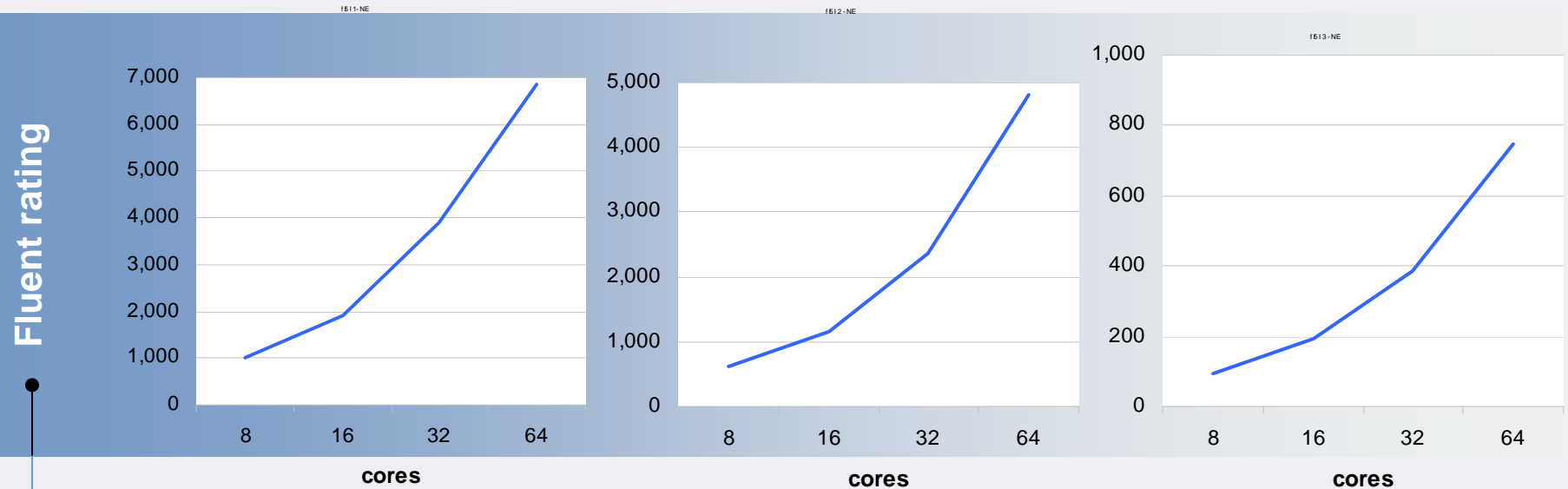


In Production Applications Now...

10Gb iWARP Ethernet achieves production scale out

Fluent FL5Lx Benchmarks: Computational Fluid Dynamics (CFD)

	FL5L1				FL5L2				FL5L3			
	8	16	32	64	8	16	32	64	8	16	32	64
NE020 10GbE	1008.3	1926.9	3901.4	6861.7	611.5	1163.1	2359.8	4821.9		195.3	385.3	784.7

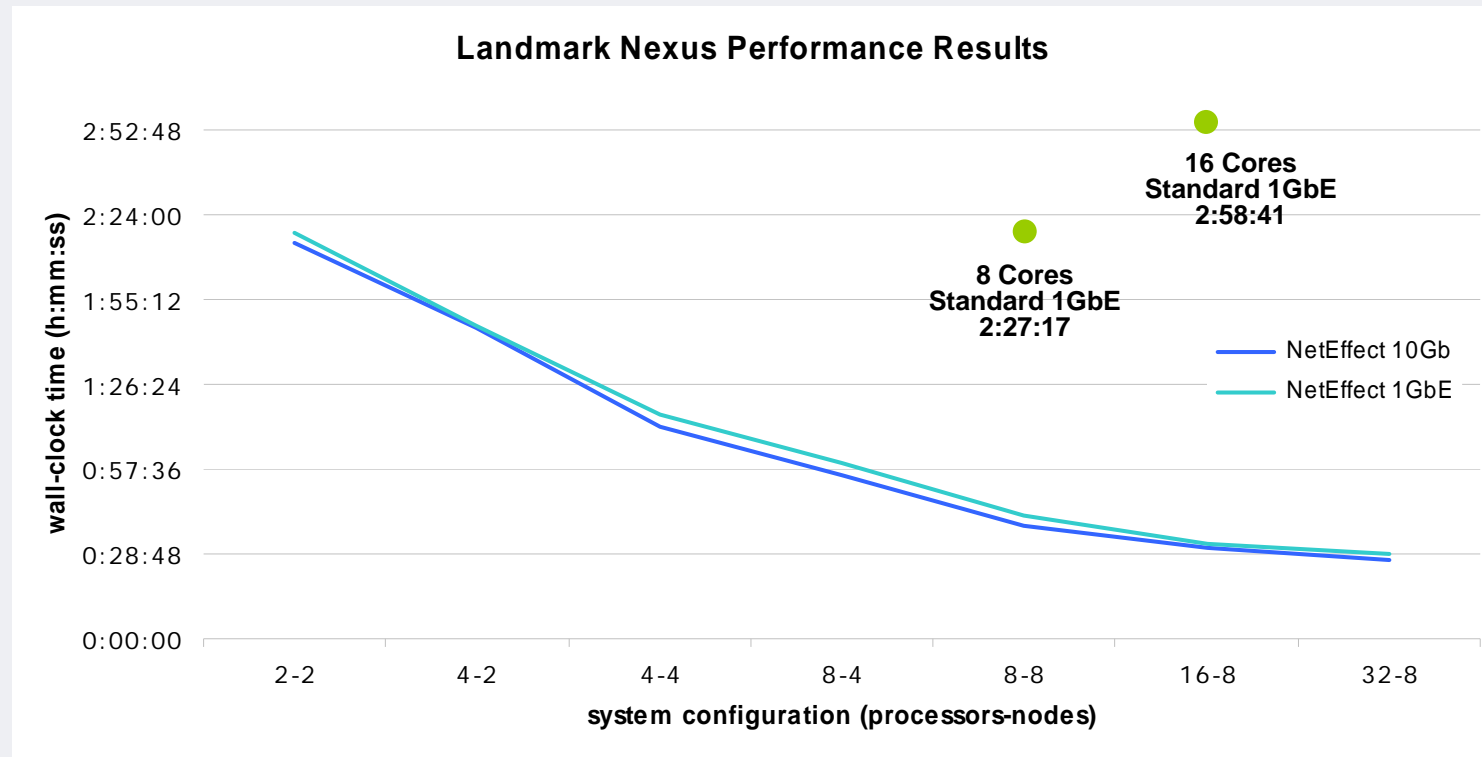


Fluent 'rating': the number of benchmarks that can be run (in sequence) in a 24 hour period. A higher rating means faster performance.

Oil & Gas

Landmark Nexus® Reservoir Simulation

Dominated by low latency and high message rate



Conclusion

- We joined forces 2.5 years ago to make the concept of a single RDMA API work on multiple fabrics from multiple vendors and be interoperable
- InfiniBand & Ethernet Working Together
 - Multiple IB Vendors
 - Multiple iWARP Vendors
- It is now a Reality!



**iWARP has moved
“from benchmarks to applications”**



Thank You!

www.neteffect.com