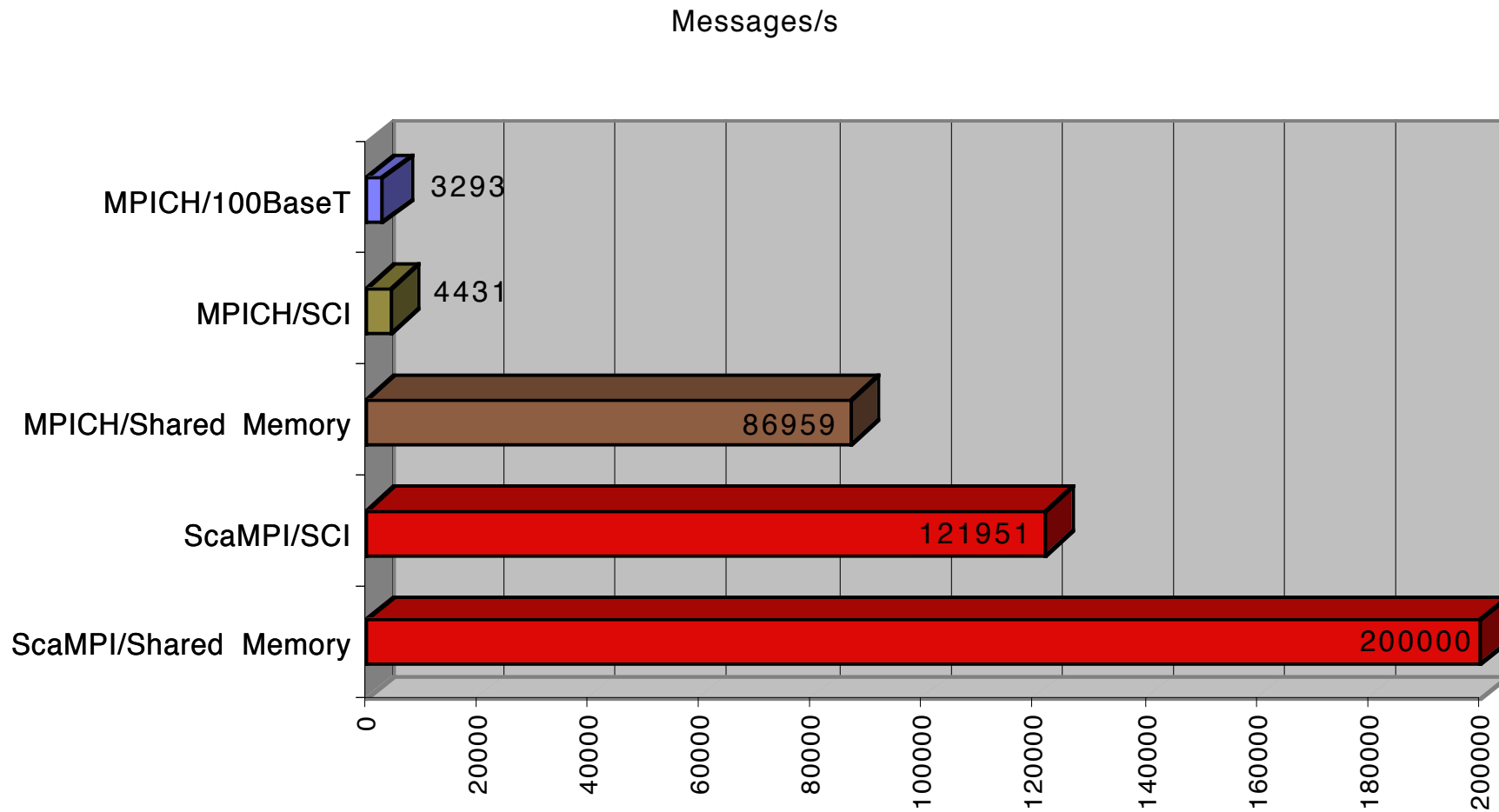


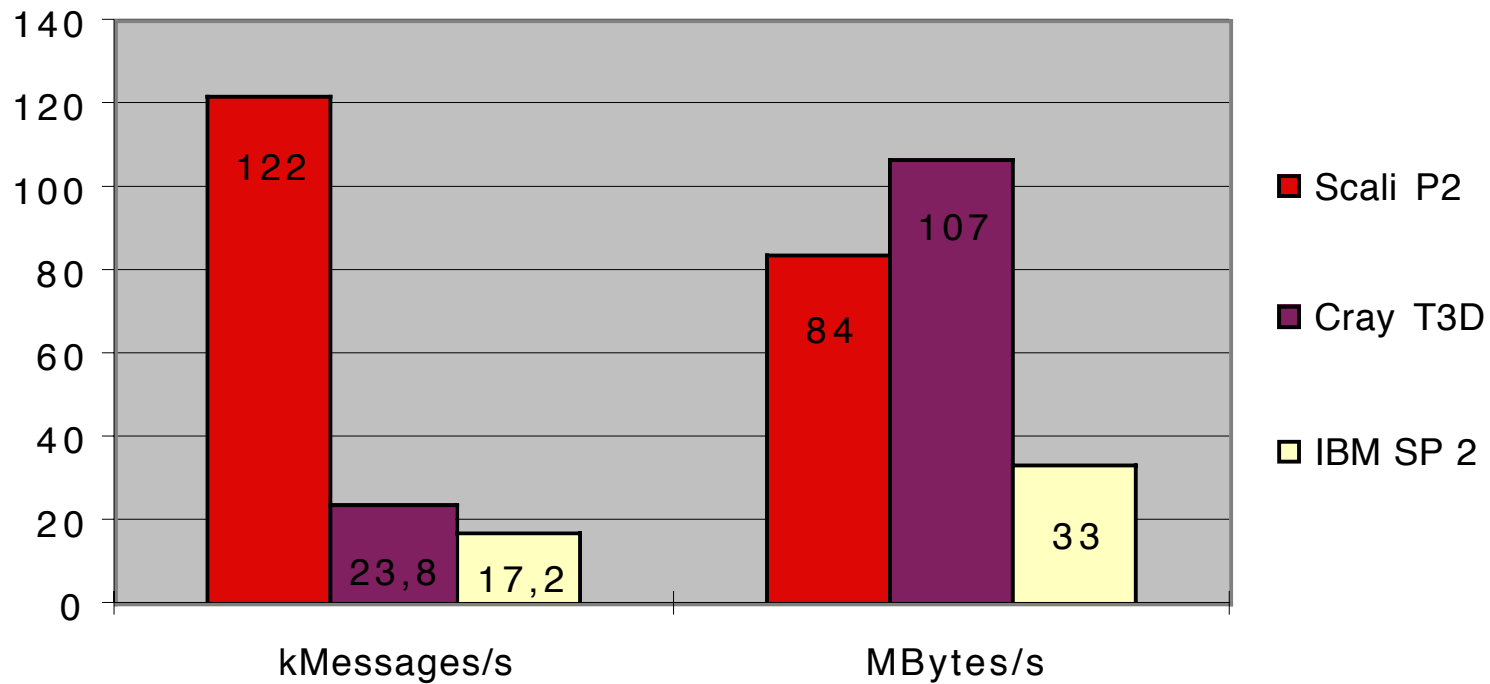
MPI Performance



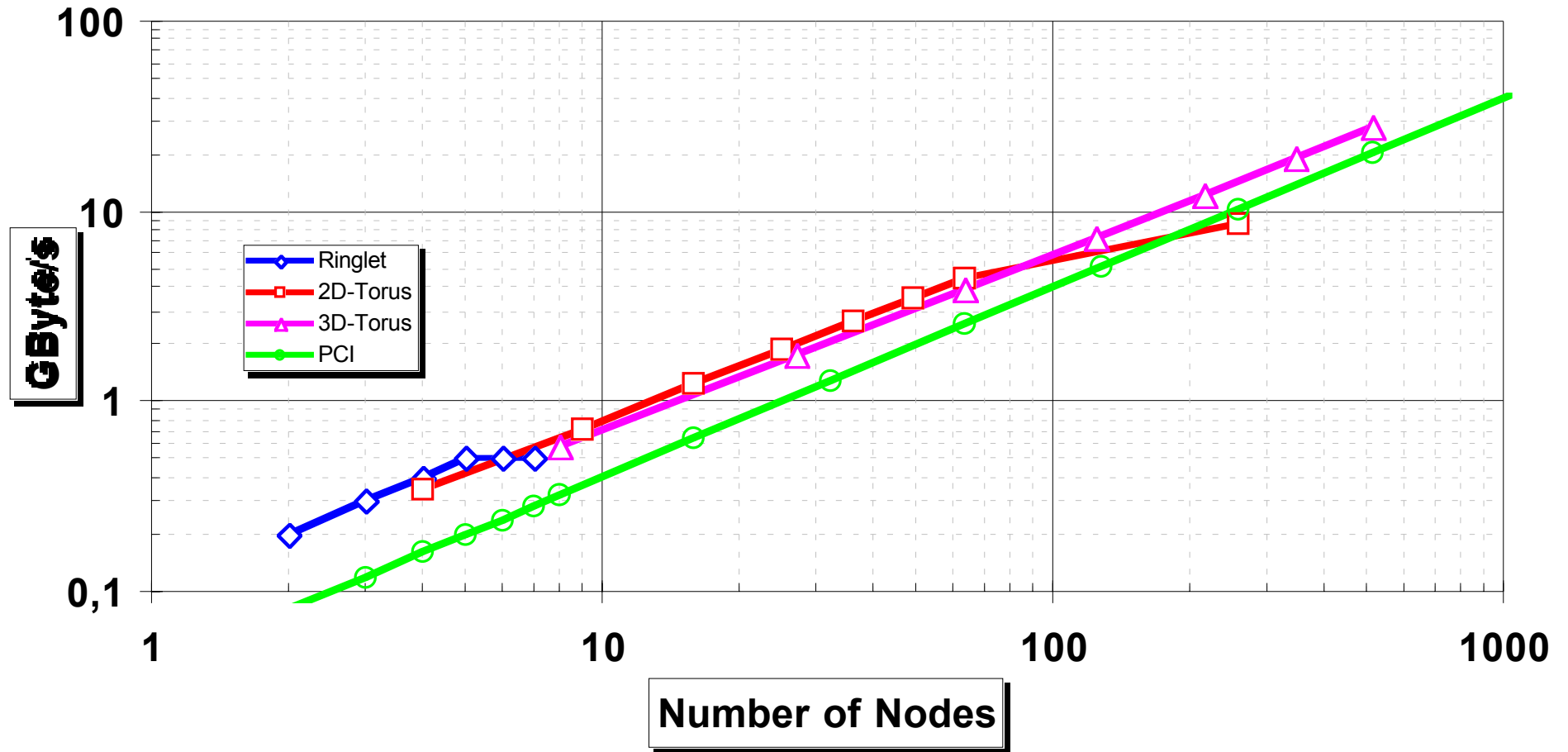
MPI Comparison



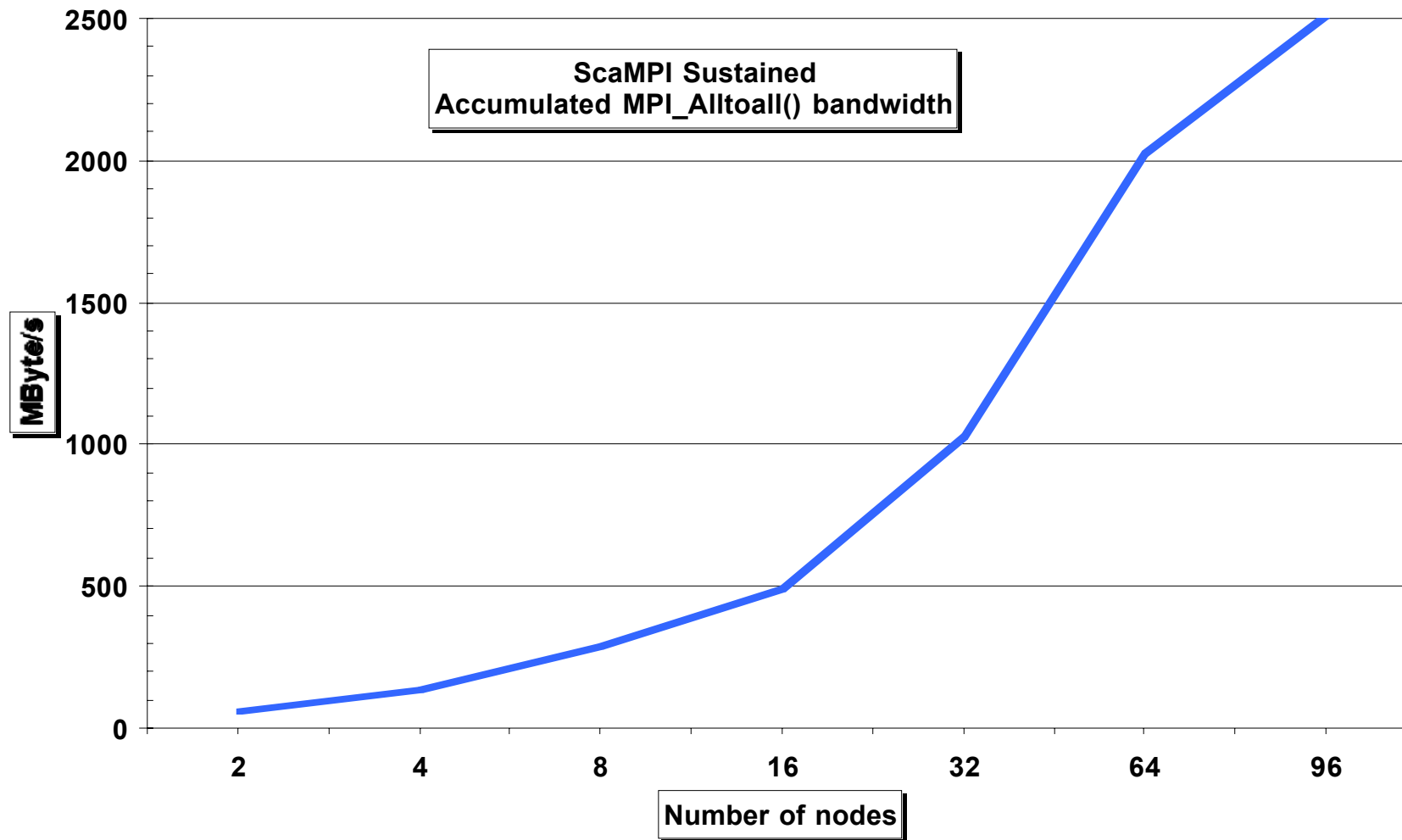
**MPI Throughput in kMessages/s (short)
and maximum Mbytes/s (long)**



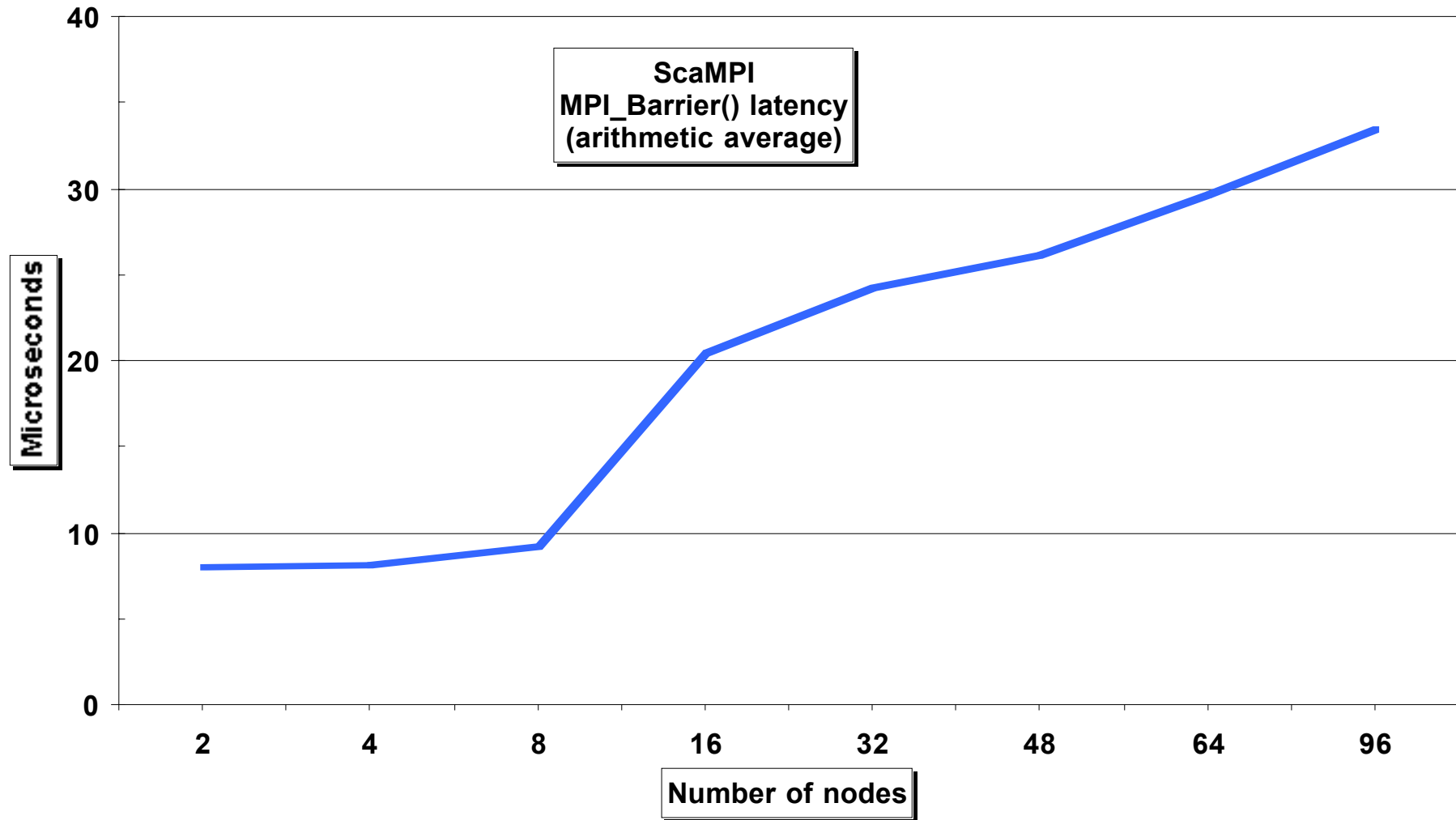
Theoretical Scalability



MPI_Alltoall()



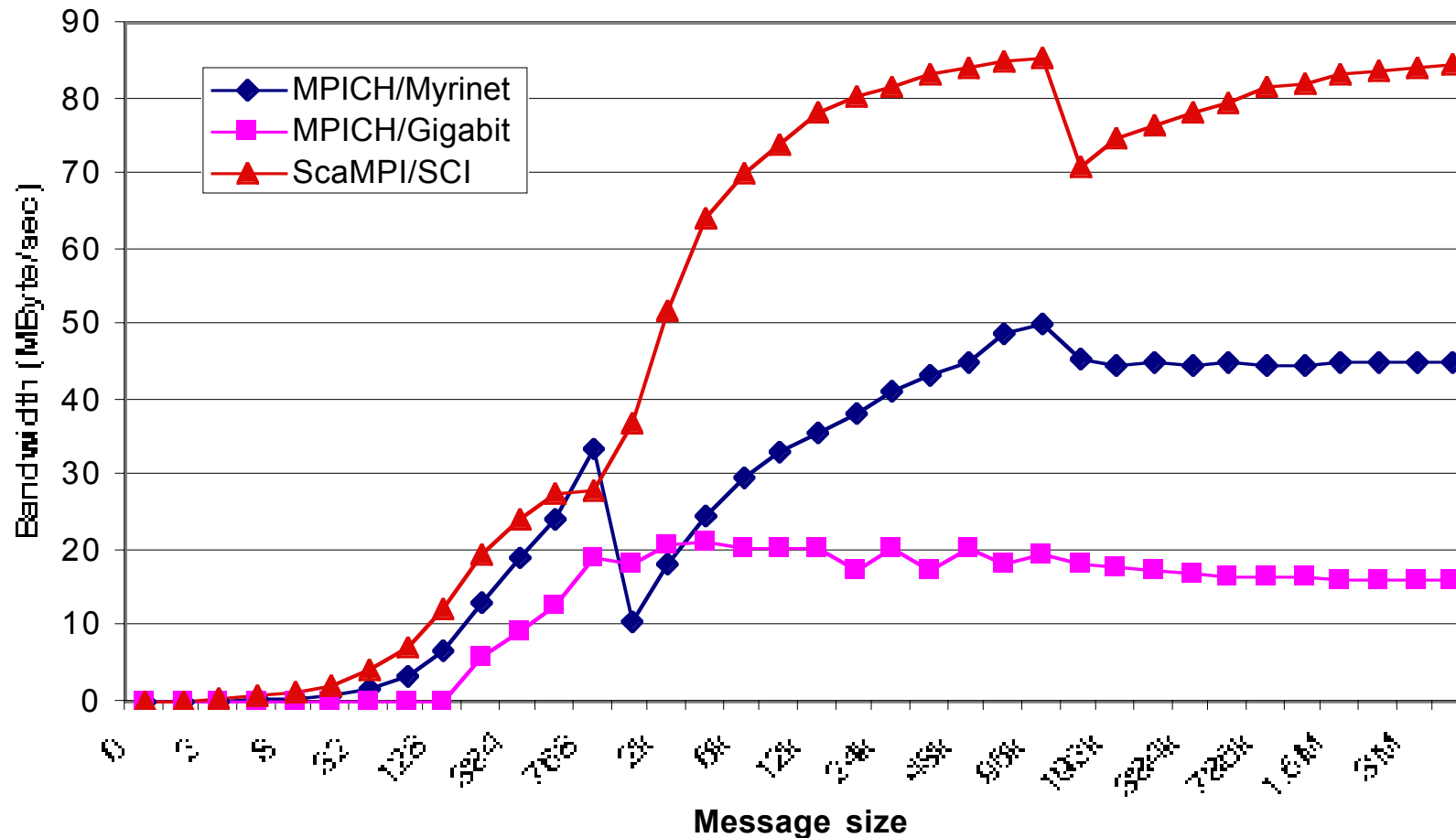
MPI_Barrier()



One-way point-to-point

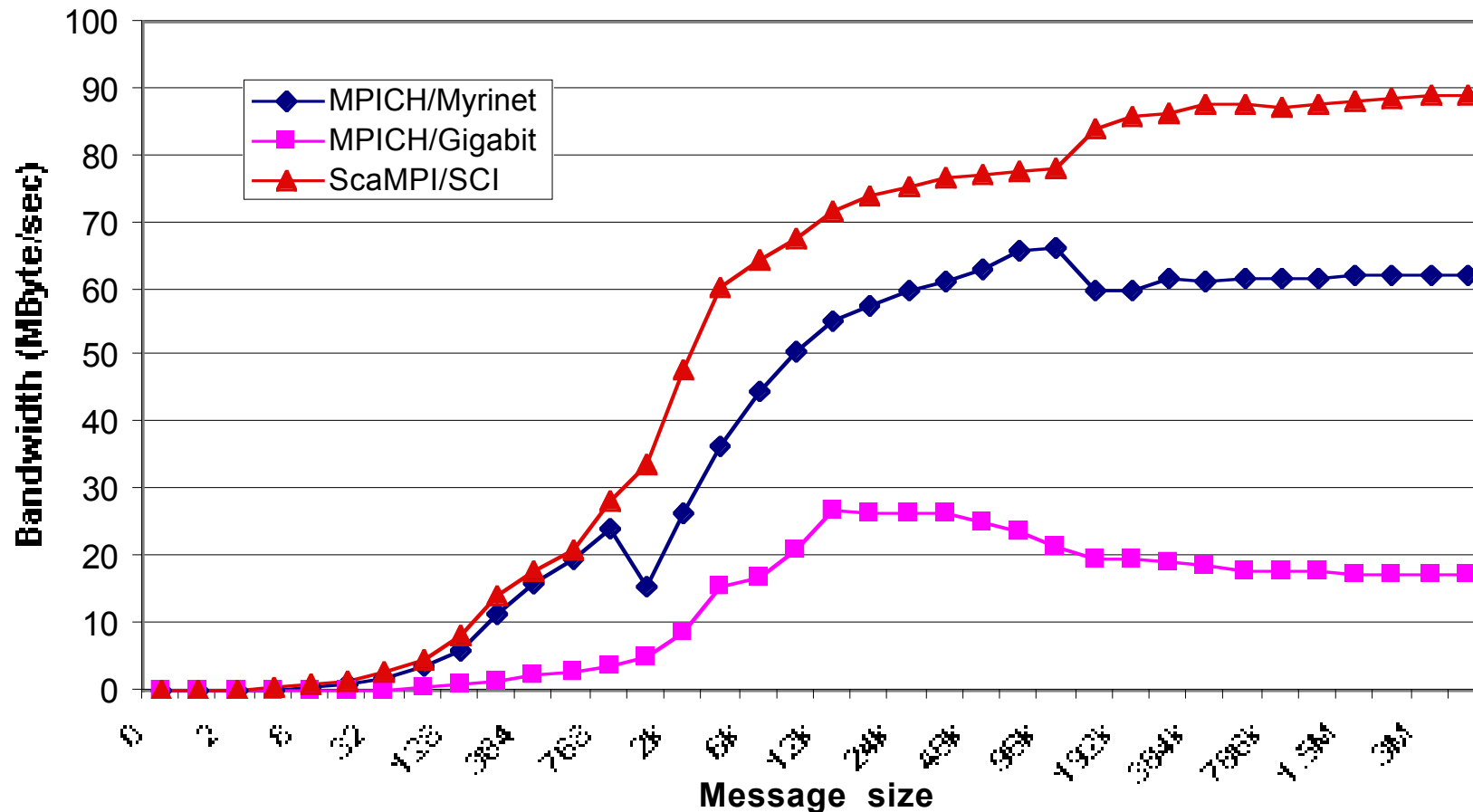


One-way communication



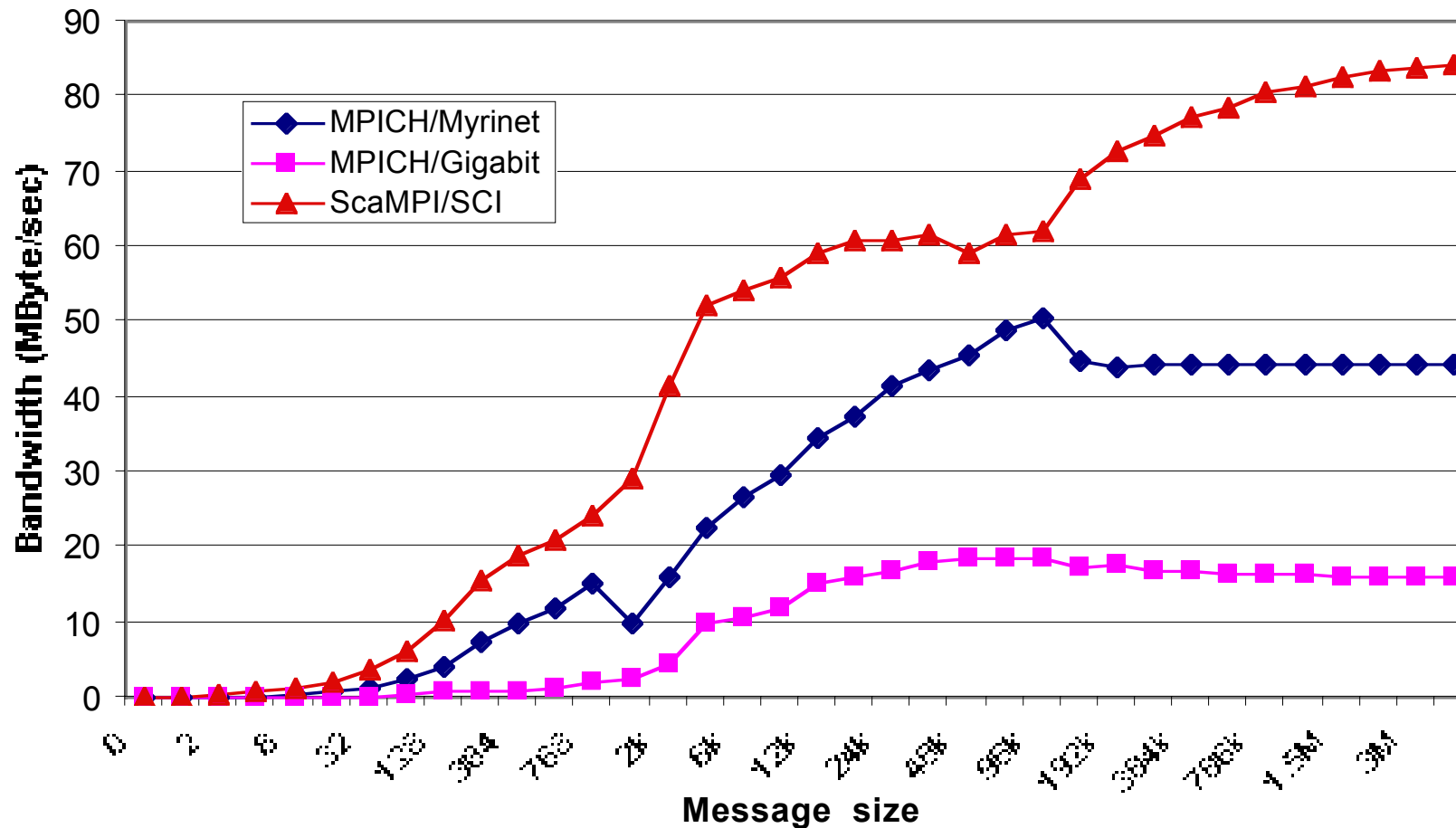
Two-way point-to-point

Concurrent two-way communication



Ping-Pong Bandwidth

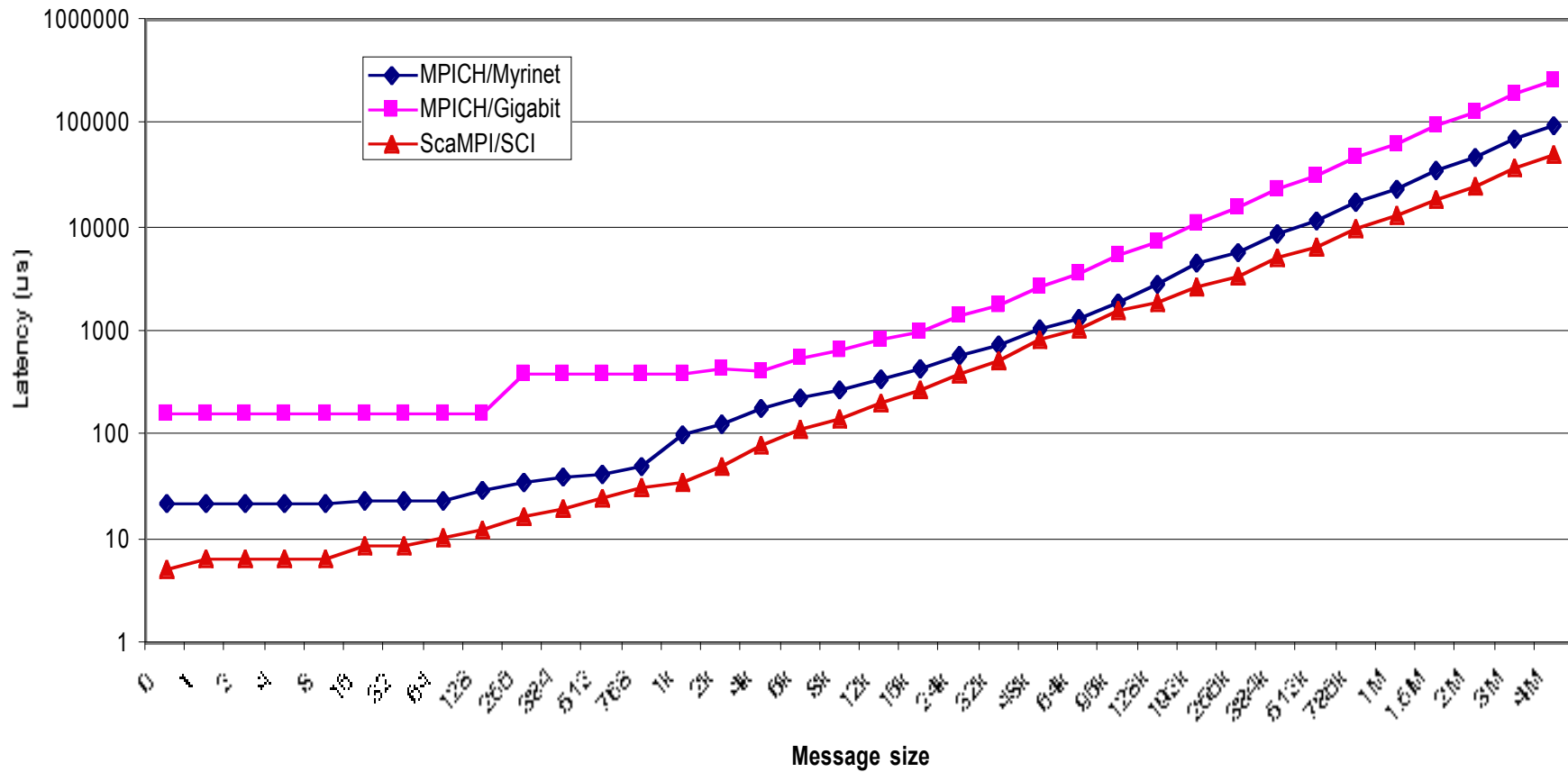
Ping-pong communication



Ping-Pong Latency



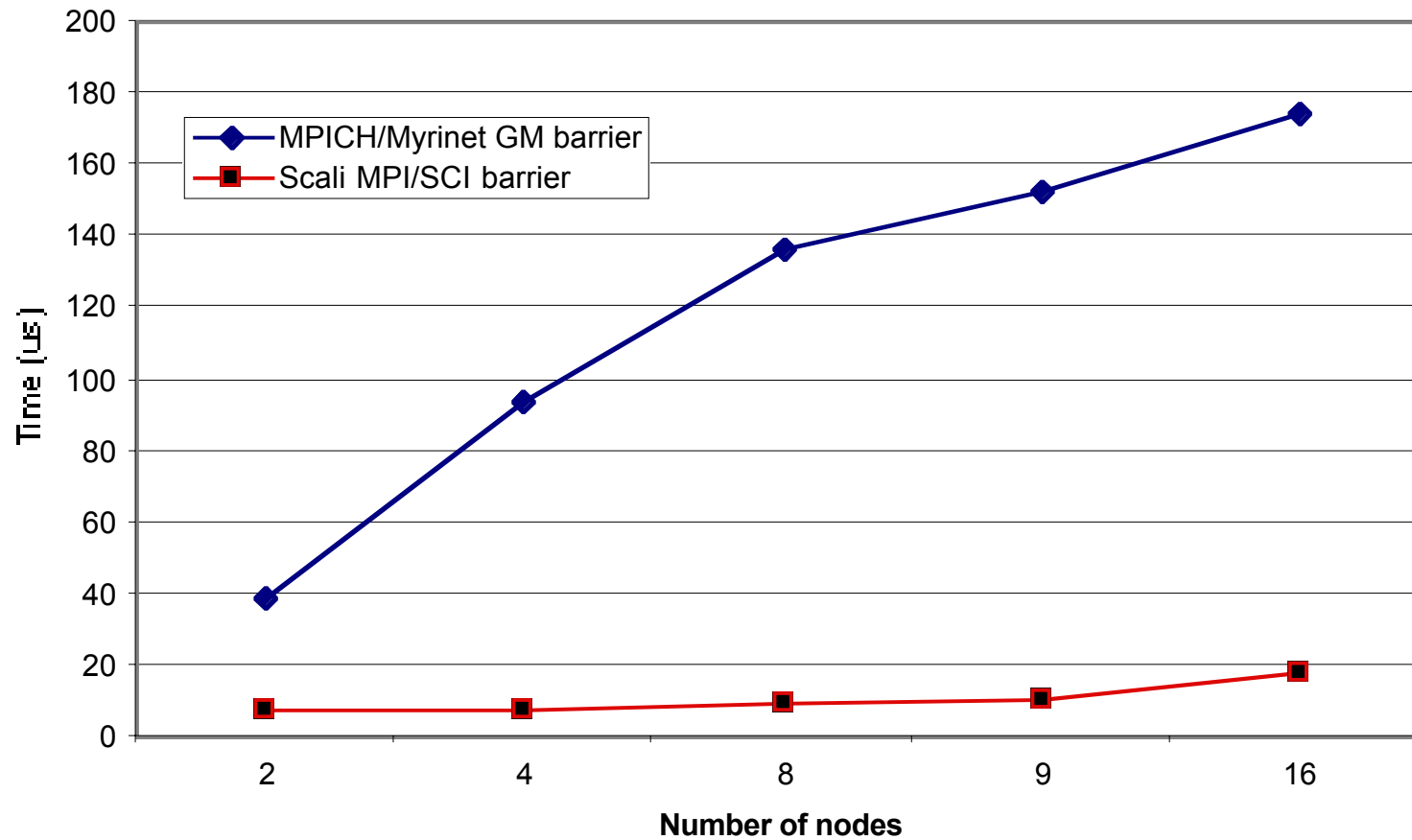
Ping-pong communication



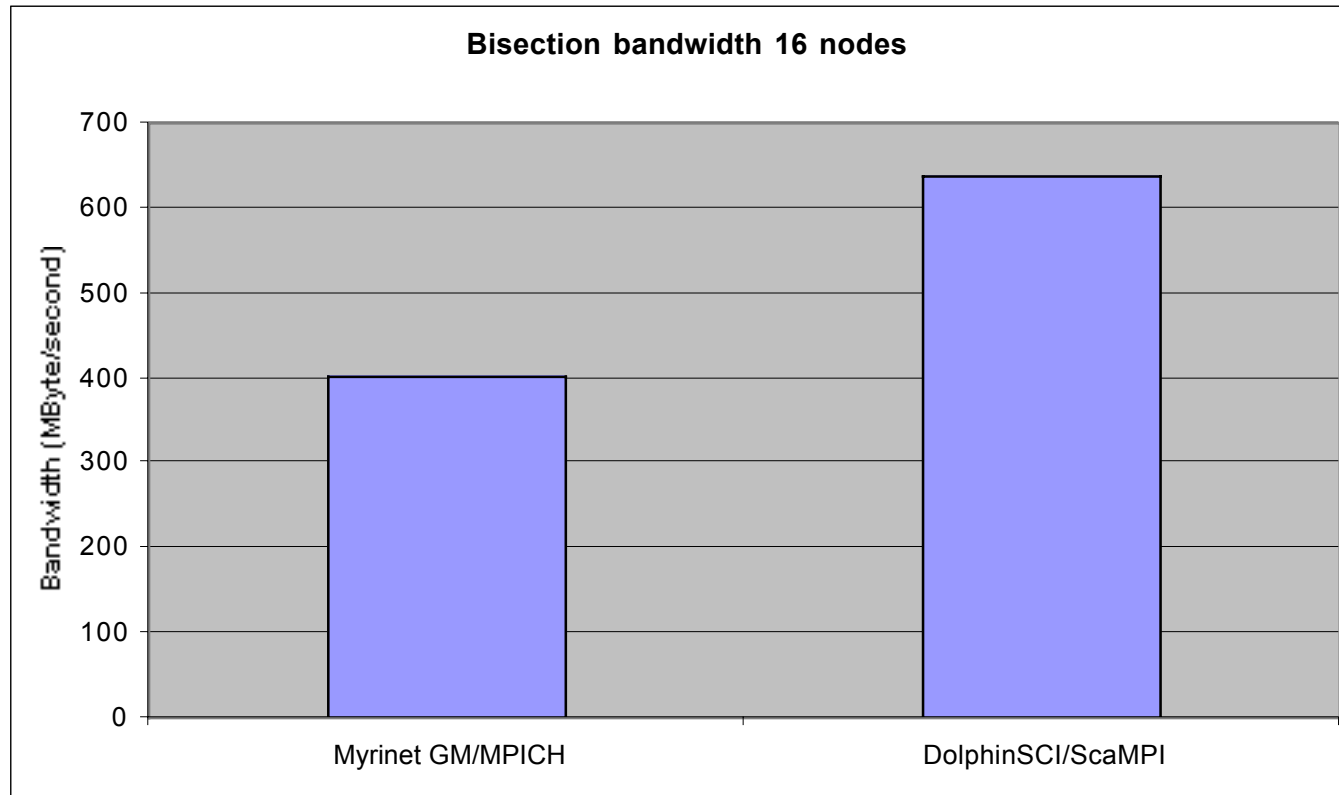
Barrier Synchronization



Barrier synchronization



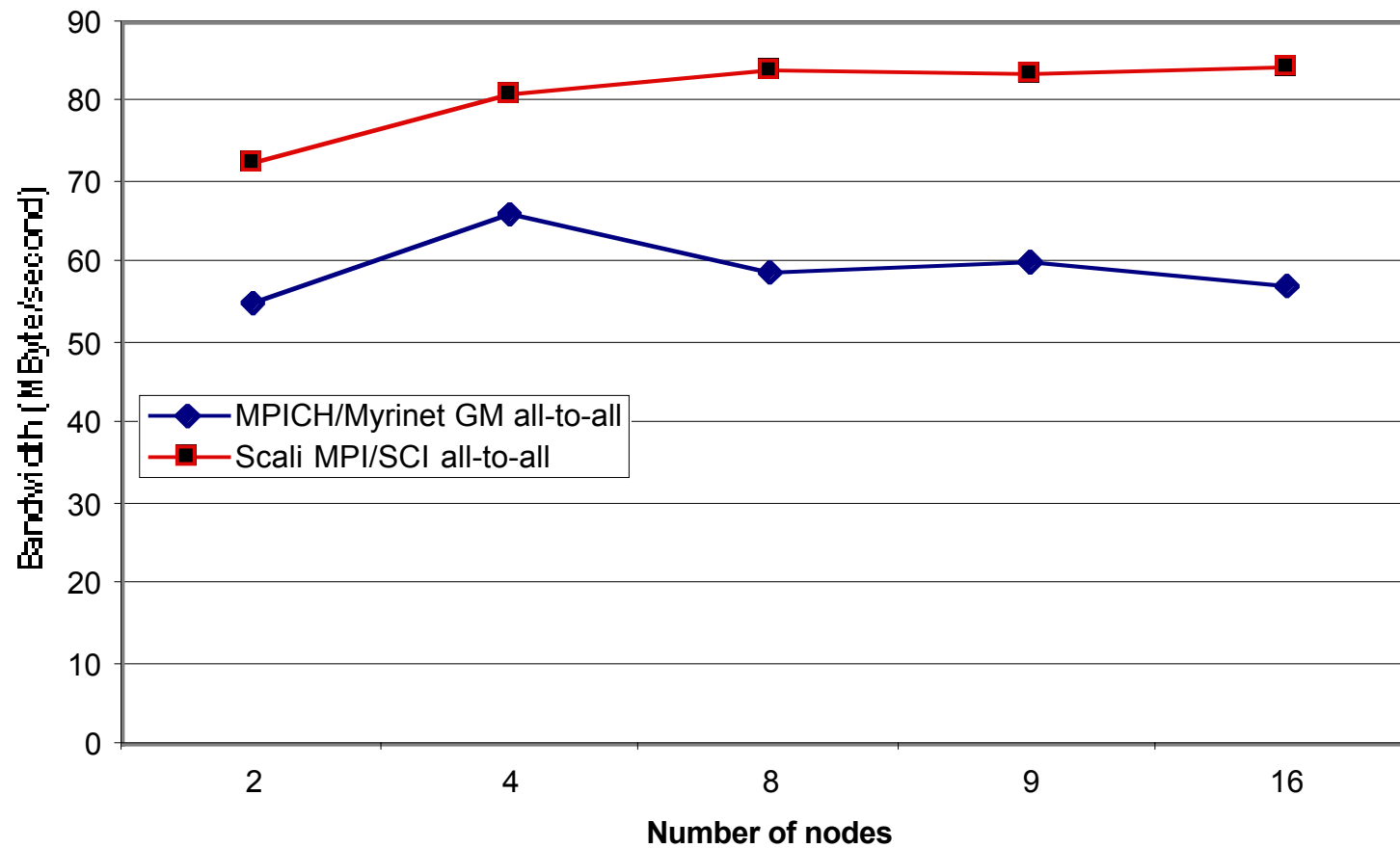
Bisection Bandwidth



All-to-All Bandwidth

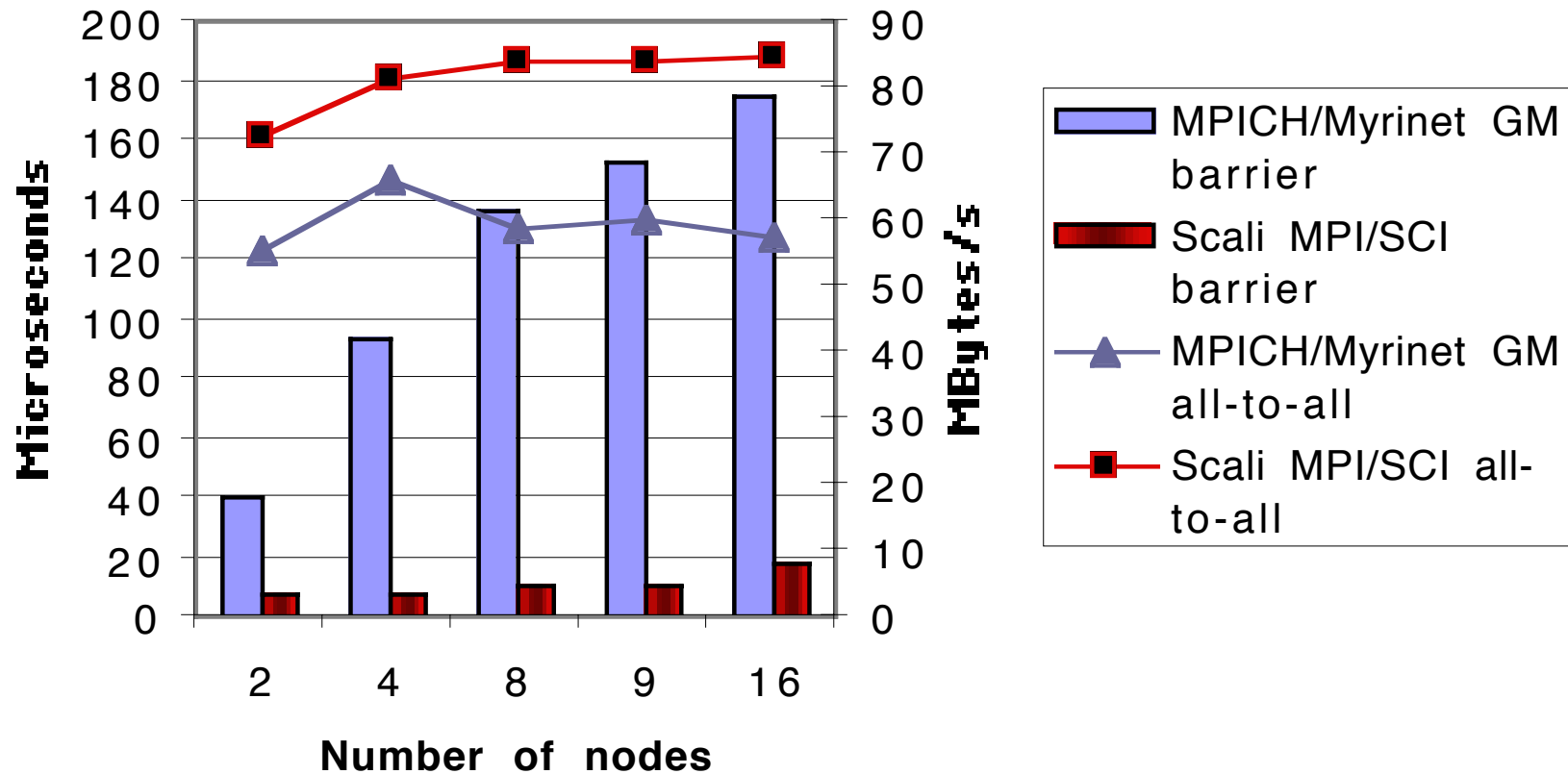


All-to-all performance

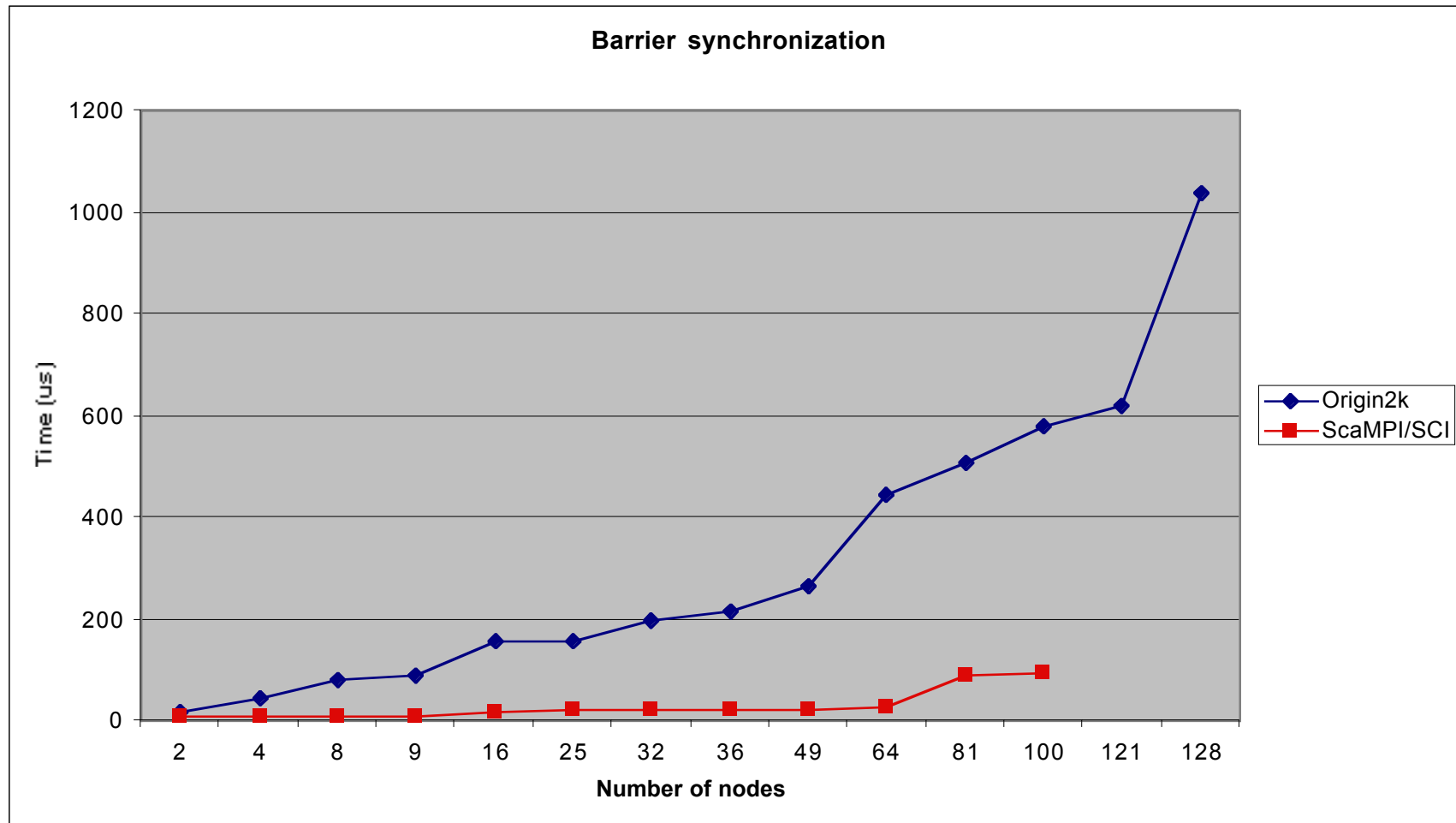


Versus Myrinet again

All-to-all and Barrier Synchronization



Barrier Synchronization Scali vs Origin 2000



All2All Bandwidth Scali vs Origin 2000

