MPI-FM: MPI for Fast Messages

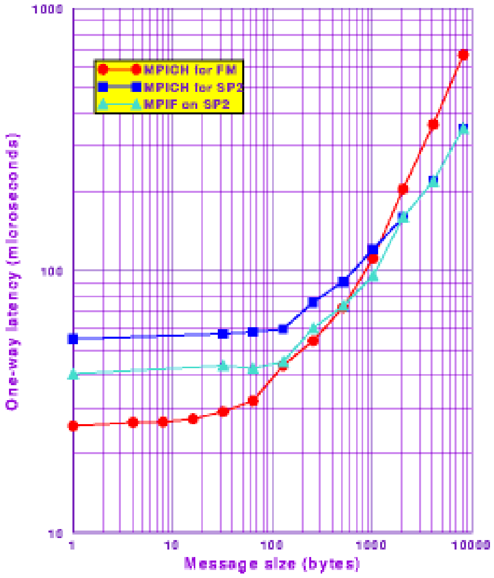
Description

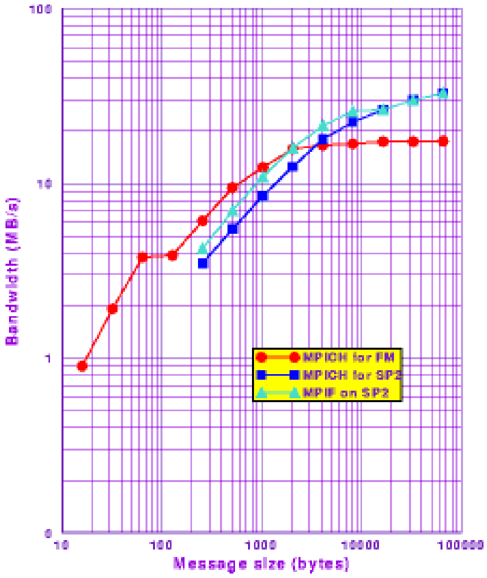
MPI-FM is a high-performance implementation of MPI based on a port of MPICH to Fast Messages on the Myrinet. MPI-FM a latency of 25 us and a peak bandwidth of 17.5 MB/s, lower latency than many commercial MPP's, and respectable bandwidth. MPI-FM outperforms the SP2 version of MPICH for messages smaller than 1KB as shown below.

The performance of MPI-FM shows that MPP-like communication latency and bandwidth can be achieved with a network of workstations *at the user level* with carefully tuned messaging layers. Our thanks to the MPICH creators who produced an MPI implementation which is both efficient and portable.

Performance

The graphs below compare MPI-FM on two SPARCstation 20/71s with SuperCache to MPICH and MPI-F on the IBM SP2.





Documentation

- README file

Software distributions

- MPI-FM, version 1.0