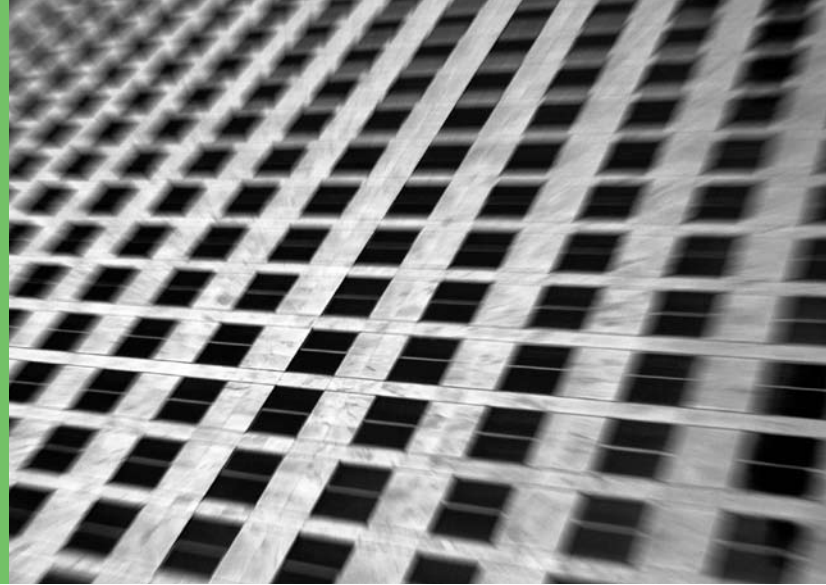


Platform MPI 7 (formerly HP-MPI)

Platform's message passing interface library
for parallelizing HPC software applications



Highlights:

- Supports the widest range of hardware and operating systems of any commercial MPI library
- Distributed by over 30 leading commercial software vendors for use with their applications focused on performance
- Ensures production quality implementation
- Includes a wide range of debugging and profiling tools

Benefits:

- Reduces application software development costs
- Protects your application software investment
- Reduces time-to-market
- Optimizes performance without compromising portability or flexibility
- Ensures production quality implementation

Ideal for:

- Enterprises that develop or deploy applications on HPC clusters, especially those using parallelized software applications
- For commercial software vendors who want to improve the performance of their applications over the widest range of computer hardware and operating system types

An industry standard for scalable, parallel applications

Platform MPI 7 (formerly HP-MPI) is a high performance, production-quality implementation of the Message Passing Interface (MPI). It is widely used in the high performance computing (HPC) industry and is considered the de facto standard for developing scalable, parallel HPC applications. Platform MPI 7 supports a broad range of industry standard platforms, popular high performance interconnects and operating systems.

Focus on portability

Platform MPI 7 allows software developers to build a single executable that transparently leverages the performance features of each type of interconnect, thereby providing applications with optimal latency and bandwidth for each protocol. This greatly reduces the efforts to make applications available on the latest and greatest interconnect technologies on Linux, HP-UX and Microsoft Windows.

Platform MPI 7 is optimized for both distributed (DMP) and shared memory (SMP) systems making it ideal for multi-core environments. It uses enhancements where appropriate to provide low latency and high bandwidth point-to-point and collective communication routines. It also supports multi-protocol execution of MPI applications on clusters of shared-memory servers so that applications can take advantage of the shared memory for intra-node communications. Platform MPI 7 also supports processor affinity with a variety of CPU binding strategies for both processes and threads. This enables applications to manage memory and cache conflicts by intelligently distributing the load among the multiple cores.

Features and Benefits

Feature	Benefits
<p>Simplicity</p> <ul style="list-style-type: none"> Fully complies with the MPI-1.2 standard, includes full MPI-2.1 functionality (dynamic processes, one-sided communications, extended collectives, thread safety, and updated ROMIO) Complete debugging and profiling tools (diagnostic library provides message signature analysis, object space corruption detection, and multiple buffer-write detection) Light weight profiling tools provide vital run-time statistics to help users understand communication patterns and message-passing usages; supports TotalView® DDT and Intel® Trace 	<ul style="list-style-type: none"> Applications port easily to other platforms Protects ISV software investment Reduces time-to-market Increases robustness and quality of complex applications
<p>Agility</p> <ul style="list-style-type: none"> Supports SMP optimization (intra-node communication via shared memory when appropriate) Supports and transparently recognizes multiple industry-standard interconnects and protocols (InfiniBand®, Myrinet® BM-2MX, RDMA-enabled Ethernet, TCP/IP, uDAPL, OFED, Shared Memory (Linux, Windows), TCP/IP (Linux), InfiniBand - Cisco (Linux), Open Fabrics Enterprise Distribution OFED 1.0, 1.1, 1.2, 1.3, 1.4 (Linux) WinOF 2.0 (Windows), uDAPL Standard 1.1, 1.2, 2.0 (Linux). Voltaire (Linux,), Myrinet® GM-2 (Linux) & MX (Linux, Windows), QLogic PSM 1.0 (Linux), Intra-node communication via shared-memory (Linux, Windows)) Out of the box support for leading workload managers including Platform LSF 	<ul style="list-style-type: none"> Optimizes performance without compromising portability or flexibility Provides the highest performance available for an individual interconnect Maintains portability Reduces the number of combinations of binaries that must be tested for application release
<p>Values</p> <ul style="list-style-type: none"> Large automated test suite (tested with selected ISV applications prior to general release) Robust features (stdio processing, signal propagation, application cleanup, exit status gathering, process accounting, auto double FORTRAN) MPICH2 compatibility High availability infrastructure 	<ul style="list-style-type: none"> Ensures production quality implementation Accepts applications from a wide range of other programming environments Provides flexibility for use with 3rd-party tools Enhances system reliability and application stability

Supported Operating Systems

Red Hat Enterprise Linux (V4, V5)

SUSE Linux Enterprise Server (V10, V11)

CentOS (V4, V5)

Microsoft Windows XP/Vista, Server 2003/Server 2008/
HPC Server 2008

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