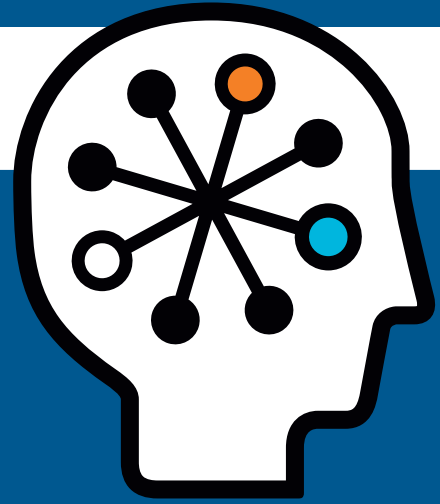




## HP and Intel

Intel® Software Development Products



# Software tools to help you make the most of parallelism utilizing multi-core processors and message passing interface clusters.

### Impractical parallelism

Multi-core processors are now mainstream. Is your software ready? Your customers expect to get the best performance out of their new multi-core systems. Intel® Software Development Products make parallelism practical.

### Make parallelism practical using Intel tools

Intel Software Development Products uniquely help developers create, debug and enhance multi-threaded and message passing interface (MPI) cluster code. Utilize the built-in threading capabilities of the Intel compilers, math library, multimedia library and threading library to create fast threaded code with minimal threading experience. Utilize Intel® VTune™ Analyzer to find hot-spots for improved performance. Intel Thread Checker and Thread Profiler help locate hard to find threading errors and help fine-tune threaded code. Developers of MPI cluster software can benefit from utilizing Intel Trace Collector and Trace Analyzer software to profile and improve MPI traffic.

### Solution benefits

- Software development tools that make development of application parallelism practical
- Increase application performance
- Utilize a single, 32- and 64-bit application development toolset for Microsoft® Windows® and Linux
- Unique tools for multi-thread and MPI software development

### Working together with HP

High Performance Computing (HPC) solutions set the industry standard in advancing innovation, cost-efficiency and productivity. Organizations of all sizes gain the power of market-changing innovations with standards-based economies and time-proven confidence—making it easier to speed and optimize the scientific, financial, discovery and engineering development outcomes of their organizations. By partnering with HP, we can leverage our vast knowledge and experience in HPC to deliver complete solutions that help you address your most demanding computing requirements.



## Make parallelism practical

Multi-core processors are mainstream. Even if your code is parallelized, Intel Software Development Products uniquely help developers create, debug and improve multi-threaded and MPI cluster applications.

- Intel compilers – get application performance on Intel multi-core processors
- Intel VTune Performance Analyzer – identify bottlenecks in source code and enhance multi-core performance
- Intel Performance Libraries – highly enhanced, thread-safe, multimedia and HPC math functions
- Intel Threading Analysis Tools – find threading errors and improve threaded applications for superior performance
- Intel Threading Building Blocks – C++ template-based runtime library that simplifies writing multi-threaded applications for performance and scalability
- Intel Cluster Tools – create, analyze, improve and deploy cluster-based applications

### HP products supported

Our solutions are supported on a broad range of HP servers. From blades and clustered servers to high-powered, 64-bit, multi-processor super-computing, HP servers set the standard for performance, scalability, availability and manageability. With their industry-leading innovation and value, HP servers are the ideal choice to meet your most demanding business needs.

### Building on the value of strong relationships

By working with HP, we have the resources, experience and knowledge of an industry leader to ensure our solution delivers the business results and value your company requires. HP is a company that thrives on innovation, with a proven track record of success in virtually every market, customer segment and region worldwide. Together, we have the technology and services to meet your most demanding needs.

Combining the hardware and software expertise from HP and Intel Software Development Products provides independent software vendors (ISVs) with the hardware and software development tools to make parallelism practical by extracting the performance potential of parallelism, either through multi-threading, MPI clusters or a combination of the two.

### Working together to drive success

By combining standards-based and high performance technologies with our leading-edge applications and a full portfolio of services, you gain a powerful, flexible solution that meets your business technology needs today. Reduce time-to-market and speed discovery with greater efficiency, lower costs and less technology risk.

## Technology for better business outcomes

© 2008 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Intel and is a trademark or registered trademark of Intel Corporation or its subsidiaries in the United States and other countries. Intel VTune is a trademark or registered trademark of Intel Corporation or its subsidiaries in the United States and other countries. Microsoft and Windows are U.S. registered trademarks of Microsoft Corporation.

To learn more, visit [www.hp.com](http://www.hp.com)  
[www.intel.com/software/products](http://www.intel.com/software/products)

