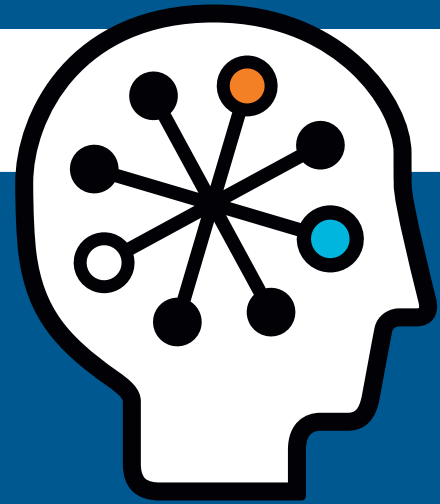




HP and Acumem

Performance analysis for multi-core systems



Your shortest route to multi-core performance.

Improve application speed

The free lunch is over—automatic application performance gains from system clock speed increases are gone. So how do application developers quickly realize the inherent performance potential of multi-core systems? A multi-core analysis tool is needed to suggest the most beneficial code changes.

Acumem VPE

Acumem Virtual Performance Expert (VPE) can unlock the performance potential of your multi-core system by detecting slow spots in your application code. In addition to standard analysis, Acumem VPE also assesses multi-core cache performance and memory bandwidth, and guides you to the most effective code enhancement. Its predictive capability allows the most efficient allocation of programming effort to boost application speed in the shortest possible time. A further unique capability is that your application performance behavior on other systems can be predicted and visualized, providing the richest information possible for your application enhancement decision.

Solution benefits

- Identify and reduce multi-core performance bottlenecks
- Find and fix slow spots in your application code
- Analyze and improve memory bandwidth utilization
- Predict application performance for your next HP system

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 enhance 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.



Battling system bottlenecks

Currently available performance analysis tools force the developer to wade through a mass of data before they have any idea where the performance problems are. Even then, the process requires as much black art as engineering skill to identify the specific nature of the problem. And worst of all, you may then spend a vast amount of time trying to identify and fix problems without any guarantee at the outset that there may be any significant performance boost to your application even when you've finished.

Acumem VPE is the first of a new generation of performance analysis tools based on its unique performance fingerprint technology. It allows the x86 Linux developer to quantify and locate performance problems quickly and simply, displaying system level metrics of the potential performance boost for each slow spot identified. This greatly increases the productivity of the development process in performance-critical applications since the developer is presented with an immediate cost/benefit analysis of the potential gain to be obtained following enhancement of the offending code.

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 verify 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.

Acumem VPE is available as part of the HP Multi-core Optimization Program Toolkit. The Acumem VPE performance analysis technology provides the quickest and simplest method to identify slow spots in application code, and boost performance for multi-core based systems across the range of HP x86 Linux solutions.

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

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