

Vampir

Performance optimization is a key issue for the development of efficient parallel software applications. Vampir provides an easy to use analysis framework, which enables developers to quickly display sequential and parallel program behavior, at any level of detail.

This will help developers to analyze their programs, find and identify performance problems, and support them in producing optimized and more efficient applications.

Concept

Different timeline displays show application activities and communication along a time axis, which can be zoomed and scrolled on. Statistical displays provide quantitative results for arbitrary portions of the timelines. Powerful zooming and scrolling allows pinpointing the real causes of performance problems. Most displays have context-sensitive menus which provide additional information and customization options.

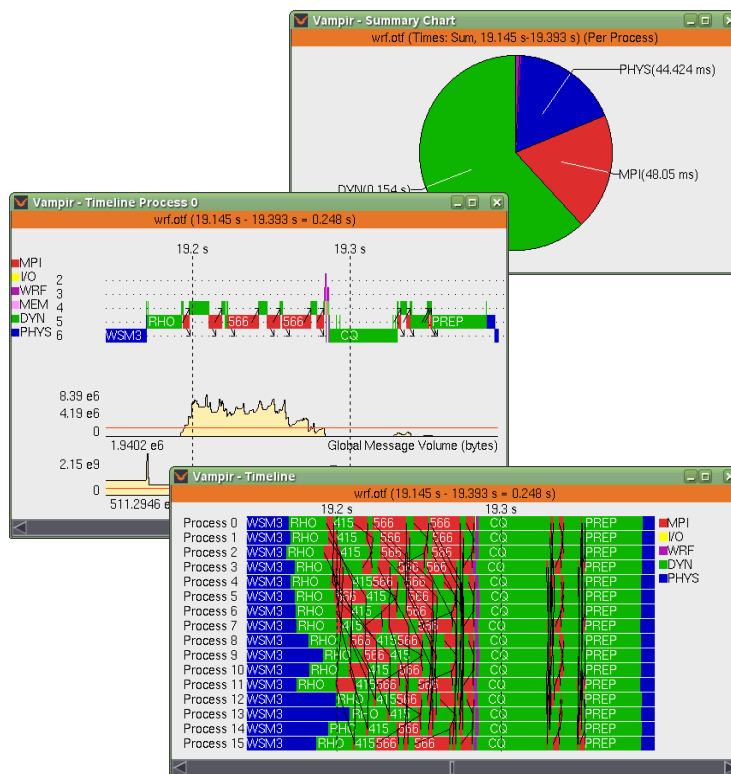
Extensive filtering capabilities for processes, functions, messages or collective operations help to reduce the information to the interesting spots. The coupled time and processes displays feature automatic updates of statistics. Vampir supports the scalable Open Trace Format (OTF) that is also developed at ZIH, TU Dresden in collaboration with University of Oregon and has been designed especially for larger and massively parallel applications.

Availability

Vampir supports multi-core desktop systems as well as large clustered parallel production environments. It is available in three product flavors: „Light“, „Standard“, and „Professional“, which differ in price and supported system sizes.

The software supports the following platforms: Linux (x86, Itanium, PPC)*, Sun Solaris (x86 and SPARC), AIX, BlueGene/P and Mac OS X (x86 and PPC). Vampir licensing ranges from individual licenses to site licenses that may cover an entire institution.

* Also covers many Linux-based vendor platforms (Cray, IBM, SGI)



Analyze Parallel Programs Graphically

- Visualize application activities, communication, and synchronization along a time axis
- Use hierarchical visualization modes for scalability
- Identify performance bottlenecks on arbitrary levels of detail
- Locate communication and synchronization hotspots
- Track the performance of subroutines and call-paths
- Study algorithmic patterns and parameterization
- Verify parallelization and load balancing

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