

VampirServer

VampirServer is the parallel version of Vampir. It provides a large set of different timeline and summarizing chart representations of performance events. Powerful zooming and scrolling capabilities allow pinpointing real causes of performance problems. Most displays have context-sensitive menus which provide additional information and customization options.

Furthermore, there is filtering support for processes, functions, messages and collective operations for information reduction. All timeline and statistics displays can be coupled for automatic updates of contents after zooming and unzooming.

Performance

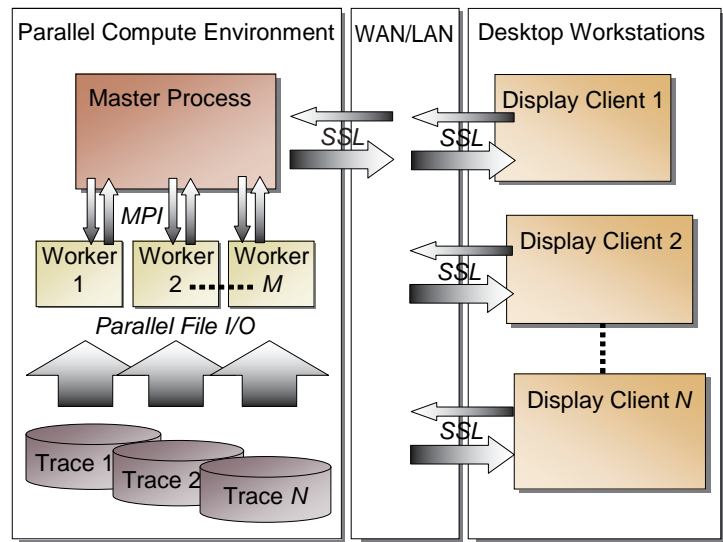
VampirServer implements parallelized event analysis algorithms and customizable displays which enable a fast and interactive rendering of very complex performance monitoring data. Ultra large data volumes can be analyzed due to the close integration with state-of-the-art parallel production environments. VampirServer follows a client/server approach which allows bulky performance data to be kept close to its origin. The client side visualization of the data can be carried out from any laptop or desktop PC connected to the internet. The tool can efficiently handle program traces with tens of gigabytes size and thousands of processes.

Concept

VampirServer implements a client/server architecture. The server is a parallel program which uses standard communication libraries such as MPI, Pthreads, and sockets. The complex preparation of performance data is carried out by the server component. The visualization of performance results is done by a small client program connecting to the server entity. An overview of the architecture is depicted in the figure above.

Availability

VampirServer is based on standard MPI and X-Windows and works on most parallel production systems (server) and desktop Unix workstations (client). Currently, the list of supported vendor platforms includes PC/Linux, IBM, SGI, Sun, NEC, HP, and Apple. Further platforms can be made available on request.



The Distributed Analysis Architecture of VampirServer

Scalable Visualization of Large Parallel Programs

- Distributed client/server approach
- Parallel analysis of performance data
- Visualize large parallel program runs
- Supports the Open Trace Format (OTF) to store performance data
- Tight integration with parallel production systems
- No performance data transport to desktop PC necessary
- Visualization client available for many platforms

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