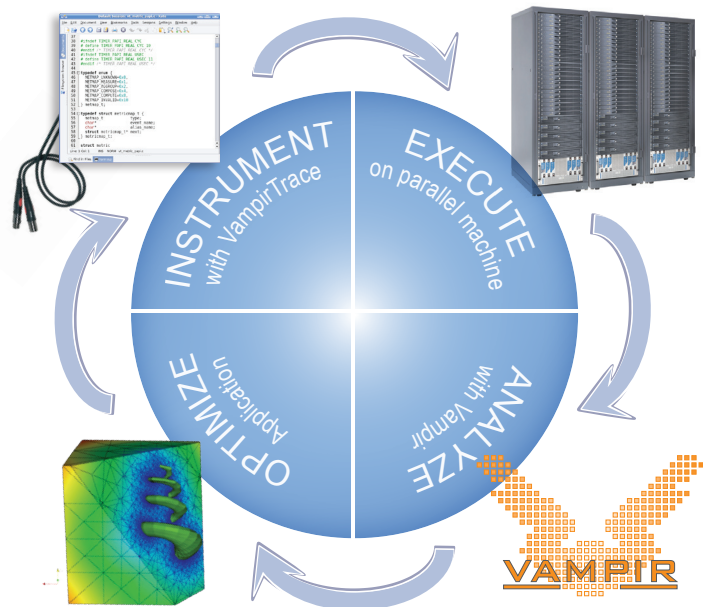


The Vampir tool chain provides an integrated and convenient way to gain insight into parallel program behavior. It consists of the powerful Open Source event monitoring tool VampirTrace, which generates performance logs in the Open Trace Format (OTF), and the rich graphical user interface Vampir to analyze these logs. Both tools are continuously being enhanced and used on some of the largest machines available.

Analysis Workflow

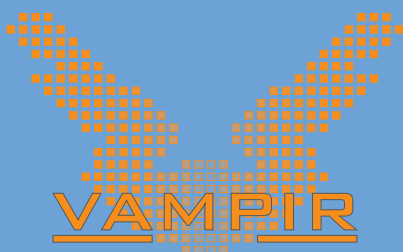
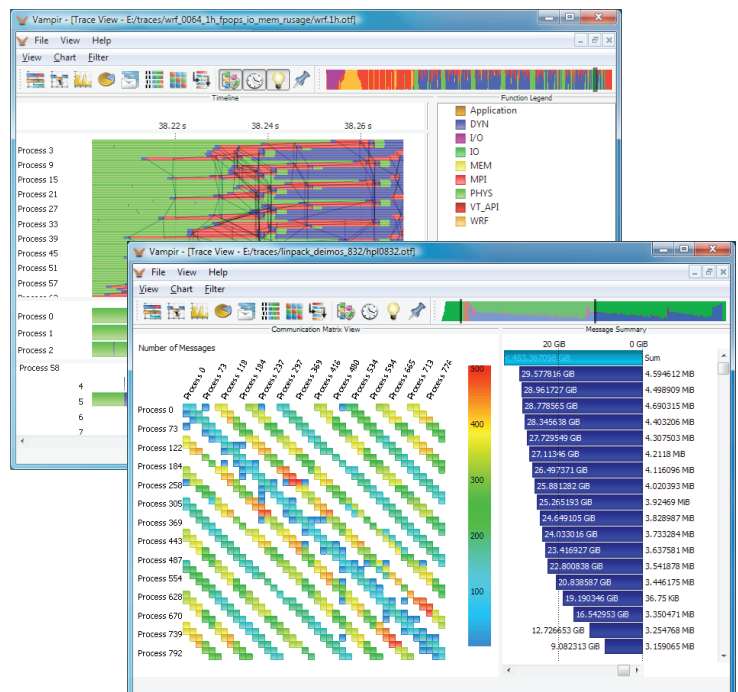
Performance analysis is an essential part in optimizing parallel applications. The Vampir tool chain provides a complete and easy to use instrumentation and analysis framework to collect and examine application performance data, thereby allowing users to quickly identify bottlenecks and promising performance optimization targets. The tool chain is divided into the performance monitor VampirTrace, and the trace visualizer Vampir. Both products are continuously being developed and enhanced using feedback from companies and research institutions. The tool chain is a well-established means to identifying and solving performance problems of applications running on very large scale machines.



Vampir Tool Chain

VampirTrace is an Open Source tool to efficiently collect, filter, and store events from parallel programs. Possible sources of performance data are the instrumented source code, parallelization statements (e.g., OpenMP) and library calls (e.g., MPI), CPU performance counters, and hardware accelerator interfaces (e.g., CUDA).

Vampir implements optimized event analysis algorithms and customizable displays, enabling a fast and interactive rendering of very complex performance monitoring data. Ultra large data volumes can be analyzed with a parallel version of Vampir. The graphical user interface runs on desktop workstations as well as on parallel production systems. The program is available for all major UNIX, Windows, and MacOS X platforms.



VampirTrace

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Vampir

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