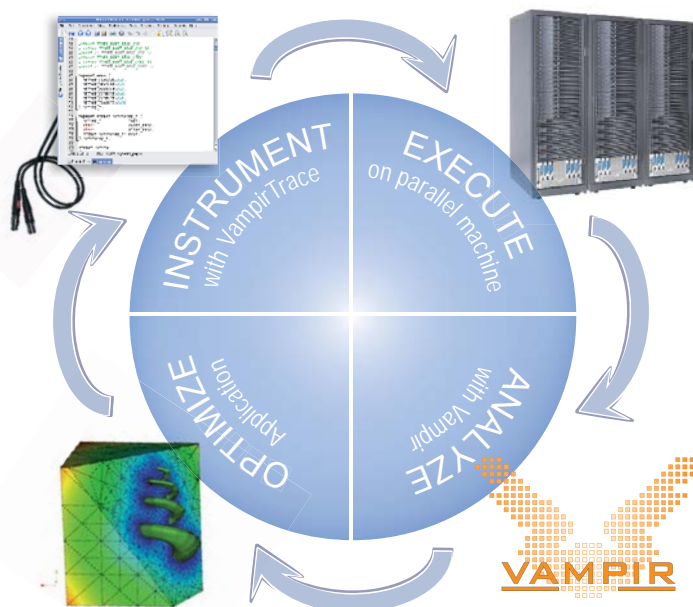


The Vampir tool chain provides an integrated and convenient way to gain insight into parallel program behavior. It consists of the powerful event monitoring facility VampirTrace to generate performance logs and the rich graphical user interface Vampir to analyze these logs. Both parts are being continuously enhanced and used on some of the largest machines available.

## Analysis Workflow

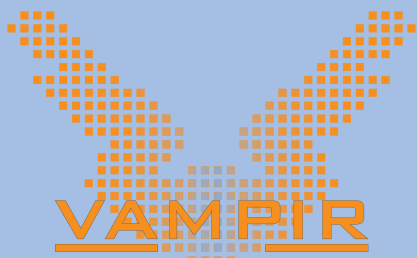
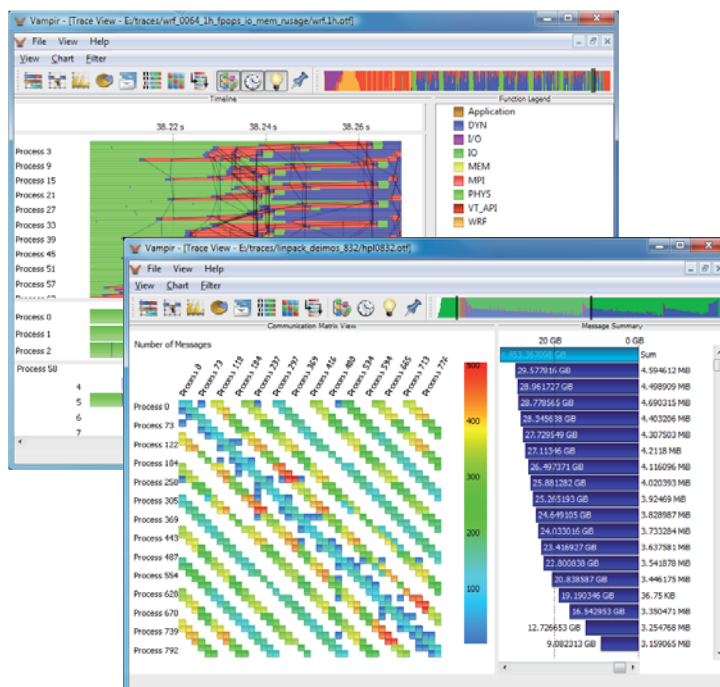
Performance analysis is an essential part of the optimization of parallel applications. The Vampir tool chain provides a complete and easy to use instrumentation and analysis framework to collect and examine performance data, thereby allowing users to quickly identify bottlenecks and promising performance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



## Vampir Tool Set

**VampirTrace** is a facility to efficiently collect, filter and store events from parallel programs. Possible sources of performance data are the instrumented source code, further parts of the software stack like MPI/OpenMP, as well as hardware components such as accelerators and CPU performance counters.

**Vampir** implements optimized 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 with a parallel version of Vampir. The graphical user interface works on desktop workstations as well as on parallel production systems. The program is available for all major UNIX and Windows platforms.



### Vampir

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### VampirTrace

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