VAMPIR NEWS

release: Nov 2007

Welcome to the November edition of Vampir News, designed to keep you informed of recent developments of our performance analysis environment. This includes the tracing tool VampirTrace as well as the visualization and analysis tools Vampir and VampirServer.

VampirTrace

A large number of recently added features have increased the instrumentation and tracing capability of **VampirTrace 5.4.0**. The new VampirTrace API for **user-defined counters** allows developers to write arbitrary numerical values as performance counters into trace files. It facilitates analyzing parallel applications in a user-specific way, which helps to detect sections in the source code which are worth investigating.

In addition to supporting a large number of Open Source and commercial MPI versions, VampirTrace is now **integrated into Open MPI**. During installation of Open MPI version 1.3, VampirTrace is automatically configured and installed. Further on, VampirTrace 5.4.0 comes with better **support for platforms that require cross-compilation**, for example IBM Blue Gene/L, NEC SX-series, and SiCortex.

VampirTrace 5.4.0 now provides **automatic tracing of LIBC I/O events**. Users can control this feature simply by setting an environment variable. The **I/O tracing** capability is enabled on all platforms that support dynamic libraries.

VampirTrace 5.4.0 includes the latest stable **Open Trace Format Version (OTF 1.3.8)**.

Vampir

The classical Vampir is now available in the **Release Version 5.2** and has been updated to the latest Open Trace Format library. This enables **I/O events** and supports **user-defined performance metrics** recorded in the OTF format with the recent VampirTrace version.

VampirServer

VampirServer **Release 1.8** is now available in the scope of our scalable performance analysis software package. It features a strongly **simplified installation process**, visualization support for **I/O events** recorded with VampirTrace, and the display of **nested parent/child relationships** of process and thread hierarchies. Additionally, it provides **detailed environmental information** like compiler or library versions, full support for **user defined performance metrics**, enhancements to usability of counter information displays, and a number of minor bug fixes. Moreover, VampirServer comes with the latest version of the OTF library.

VampirServer can now be configured to work with **all major MPI implementations** by the user. Upgrading to newer or different MPI libraries is very simple.

Extensive demonstrations of the tool are given at our booth 3209 at Supercomputing 2007.

VAMPIR