

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 tool VampirServer and our new Windows edition of Vampir.

Vampir 7

Vampir

We are happy to announce that **Vampir 7.1** is available to the **Windows** community as of SC09. Likewise, a free public beta-release for **Linux/Unix** is available for testing.

This latest edition of Vampir combines state-of-the-art **scalable event processing** techniques with an **all-new user interface**. This includes: **saving and loading** of entire **analysis sessions**, a **new hardware counter data** representation with minimum, average, and maximum indicators, improved scalability for **timeline and communication matrix views**, seamlessly integrated **external analysis** with VampirServer 2.0, and revised user guidance.

Vampir 7 is **fully compatible** with previous releases of Vampir and VampirTrace. The **performance data acquisition** process is fully **integrated** into Windows HPC Server 2008. On Linux/Unix platforms, **VampirTrace** provides rich program monitoring options.

VampirServer 2.0

VampirServer

As of SC09, **VampirServer 2.0** is available and introduces many new features. VampirServer now supports transparent communication with both Unix and Windows versions of the Vampir visualizer. Its **parallel analysis engine** has been ported to shared-memory. Therefore, VampirServer is well suited for large **clustered systems** with distributed memory as well as **multi-core systems** with shared memory.

VampirServer now supports basic **performance events** for **accelerators** like the GPUs from NVIDIA. Additionally, performance tracking of **MPI-2 one-sided** communication and **file I/O** operations has been incorporated. **Performance hot-spot markers** have been added for third-party tools. A new driver for distributed **EPILOG** event archives from the **SCALASCA** performance monitor extends the portfolio of supported third-party **file formats**.

VampirTrace

VampirTrace

The new release **VampirTrace 5.8** sets a focus on **stability, portability** and integration of new tracing features. It introduces a new feature to record **calls to arbitrary third party libraries**. Furthermore, it makes **calls between two dynamic libraries** visible.

This works for all **dynamic libraries** that come **with a header file** even without the library's source code. **No recompilation** of the application or the library is **required**. To reduce the number of recorded events, VampirTrace now offers **process specific filtering** in addition to the traditional event filtering. This allows to define **graduated detail levels** for sets of processes or ranks in SPMD-parallel applications.

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