Napatech Announces New Highly Configurable LibPCAP for Their NT Family of 1GbE and 10GbE High-Performance Network Adapters

Product Displays at ISS World in Washington DC, December 9 to 11, 2008

ANDOVER, Mass., Dec. 9 (SEND2PRESS NEWSWIRE) — ISS World — Napatech today announces a new implementation of LibPCAP supporting the NT family of 1 Gbps and 10 Gbps high-performance network adapters. The new Napatech LibPCAP implementation can utilize all the below functionality without the need to modify the customer application:

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* Plug-and-play use
* Line speed delivery of network data to customer applications at any frame size
* Very low CPU utilization, below 1 percent LibPCAP and driver overhead for 10 Gbps delivered to application
* Utilization of many of the advanced Napatech Network Adapter features
* Distribution of network frames to 1-32 CPU cores

* Distribution of network frames to host CPUs based on 2/5-tuple hash keys
* Use of up to 64 advanced adapter hardware filters.

"The new configurable LibPCAP library greatly simplifies the task for new Napatech OEM customers to port their applications to the high-performance Napatech Programmable Network Adapter platform. Current OEM customers have experienced more than fourfold performance improvements with less than one day's work," says Nick Arraje, VP of Sales, North America.

The new Napatech highly configurable LibPCAP library enables customer applications, implemented using the standard PCAP programming interface, to take advantage of the advanced features of the Napatech Programmable Network Adapters. This enables our OEM customers to achieve a 300-600 percent performance increase at practically zero development effort. The hardware functionality of Napatech Network Adapters, such as adapter generation of 5-tuple hash keys, used for distribution of selected network frames to a number of server CPUs, can be configured via a text-based file that is read by the Napatech driver when the adapter is started.

The new features described above are added to the already feature-rich product line offered to Napatech's OEM customers. The high-performance adapters already include line rate capture and processing of frames up to 20 Gbps, 10 ns time-stamping, channel merging, frame classification, conditional dynamic frame slicing, 64 user-programmable filters, packet coloring, deduplication, support for 32 CPU cores, and more. The feature set supports Linux, FreeBSD and Windows, and includes a programming interface and development tools.

About Napatech

Napatech is a leading OEM supplier of multi-port 1GbE and multi-port 10GbE high-performance network adapters. The core idea is to off-load real-time/streaming protocol, payload analysis and control applications traditionally implemented in software or proprietary hardware. Napatech expects a huge growth in the demand for intelligent and programmable adapters as Ethernet speeds increase, since the current PC architecture limits the amount of processing that can be achieved. Napatech has sales, marketing and R&D offices in Mountain View, California, Andover, Massachusetts, and Copenhagen, Denmark.

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