



### SENSORY NETWORKS DELIVERS 10GBPS IPS SOFTWARE ACCELERATION SOLUTION

*Company's innovative software accelerates Intrusion Prevention (IPS) performance to 10Gbps while running on low-cost platform without any specialized hardware*

**PALO ALTO, Calif. – August 6<sup>th</sup>, 2008** – Sensory Networks, the leader in pattern matching and acceleration software technology, today announced their HyperScan™ and FastChannel™ software hit 10Gbps IPS throughput, for both UDP and HTTP traffic. The end-to-end system solution is based on a standard Intel® Quad-core Xeon platform, without any specialized hardware, running Snort® IPS with the SourceFire® VRT rule set. This is the latest in a series of breakthroughs the company has recently announced as it continues to demonstrate to the industry the impact of using software to push the envelope in price/performance, scalability and deployment flexibility.

“We are particularly pleased with our HTTP, small packet and latency performance, as these are areas that present many technical challenges for designers,” said Sab Gosal, VP of Marketing for Sensory Networks. “As we look to scale beyond 10Gbps, the real power of our software centers on the fact that the same suite of software libraries can also scale down to sub-200Mbps applications while supporting a common API, feature set and integration cycle.”

HyperScan is a highly portable, easy-to-integrate pattern matching engine that, aside from full PCRE support, comprises several underlying content scanning engines that leverage cache memory to scan hundreds of thousands of patterns simultaneously at multi-gigabit speeds. Each engine is unique and tailored for a different task, and tuned to deliver optimal performance for certain parts of signatures, expressions and applications. Also, an intelligent compilation stage partitions, optimizes, and transforms the signature database for use in multiple engines simultaneously, delivering both the optimum performance and complete signature support.

FastChannel is a proprietary zero-copy, context-switch free packet processing software library that manages and dynamically distributes network traffic across CPU cores. FastChannel contains many innovations that allow user-space applications to handle network traffic at performance levels comparable with kernel-space implementations.

The IPS performance characteristics listed below were benchmarked using industry standard specifications and guidelines, and have been demonstrated to several tier-1 vendors:

- 10Gbps UDP throughput
- 10Gbps HTTP throughput
- 150,000 HTTP connections per/sec
- 40 – 250usec latency
- 2Gbps small packet performance

#### Corporate Headquarters

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## Press Release

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"There is no single metric which clearly defines a product winner in the security and networking applications space. This is why at Sensory we have been developing technology to cover small packet performance, latency, throughput, connections per second, supported rule count, and PCRE compatibility," said Paul Glendenning, VP Engineering Services for Sensory Networks. "Collectively, HyperScan and FastChannel software is the first of its kind to deliver on these types of performance parameters needed for applications such as IPS."

Configuration	UDP	HTTP Throughput	HTTP Conn/sec
Routing	11.8 Gbps	11.1 Gbps	300,000
<b>FastChannel + HyperScan matcher</b>	<b>10.4 Gbps</b>	<b>10.2 Gbps</b>	<b>144,000</b>
FastChannel + Snort* Aho- Corasick matcher	4.2 Gbps	4.6 Gbps	Not measured

### IPS end-to-end System Performance Summary

*\*Snort is a single threaded application so throughput performance, in the absence of any pattern matching or acceleration, is approximately 500Mbps without any scalability as the number of CPU cores increase.*

"The device under test we used for the benchmarking was tested to have a routing limit of 11 – 12 Gbps," said James Gregory, Senior Engineering Manager for Sensory Networks. "By using HyperScan and FastChannel software we have pushed Snort IPS UDP and HTTP throughput performance close to this limit. The results also show that HyperScan's pattern matching alone provides an incremental 60% gain in throughput, above and beyond the gains achieved using FastChannel."

Further details of Sensory software products and test results can be downloaded at [www.sensorynetworks.com/Products/Downloads/Item/10Gbps-IPS-Solution-using-Sensory-Networks.pdf](http://www.sensorynetworks.com/Products/Downloads/Item/10Gbps-IPS-Solution-using-Sensory-Networks.pdf).

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### About Sensory Networks

Sensory Networks is a provider of software pattern matching and acceleration software solutions that enable networking and security equipment vendors to significantly improve the packet processing intelligence and price/performance of their platforms that support resource intensive applications such as: Intrusion Prevention (IPS), Antivirus (AV), Deep Packet Inspection (DPI) and Content Filtering. The Company's HyperScan and FastChannel software libraries, while running on low cost, off the shelf platforms are designed to operate with a wide range of applications, both commercial and open-source, and provide up to 10Gbps throughput performance with the potential to scale to 30Gbps in specific environments. Headquartered in Palo Alto, Calif., Sensory Networks has a regional office in Sydney. [www.sensorynetworks.com](http://www.sensorynetworks.com)

Intel® is a registered trademark of Intel Corporation. Snort® is a registered trademark of Sourcefire, Inc.

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