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6WIND Extends Portable Packet Processing Software to Support Intel® Data Plane Development Kit

Provides the industry's most comprehensive set of networking and security features for Intel® architecture-based mobile infrastructure and cloud networking products

PARIS, France, September 12, 2011 - 6WIND, the industry standard for commercial multicore packet processing software, today announced the availability of its 6WINDGate™ software with optimized support for the Intel® Data Plane Development Kit (Intel® DPDK). 6WIND will showcase its support for the Intel® DPDK at the Intel Developer Forum (IDF) in San Francisco from September 13th through 15th (booth **106**).

Already deployed by a wide range of OEMs worldwide, 6WINDGate enables the development of best-in-class mobile infrastructure and cloud networking products. To support exponential growth in Internet data and video traffic, next-generation equipment must deliver increasing throughput while providing support for intelligent networking and advanced security protocols. Ever-increasing levels of packet processing must be provided with on-going improvements in energy efficiency, while shrinking product lifecycles dictate that application software must be reused to the maximum extent.

To address these requirements, 6WINDGate uses the advanced architecture of Intel multicore processors, fully integrating the powerful packet processing framework and multicore execution environment provided by the Intel Data Plane Development Kit software to deliver compelling networking performance while retaining full compatibility with standard Operating System APIs.

On a dual-Intel® Xeon® processor E5645 platform with a clock speed of 3.33GHz, running the Intel DPDK, 6WINDGate delivers over 16 million packets per second, per core of IP forwarding performance, thereby forwarding 10Gbps of network traffic in each core (64-byte packets). This performance scales linearly with the number of cores configured to run 6WINDGate until the maximum bandwidth of the hardware platform is reached. Processor cores not used to run 6WINDGate are available to run value-added application software or Virtual Machines (VMs), resulting in a highly efficient and flexible system for advanced networking equipment.

6WINDGate provides a comprehensive, portable suite of networking protocols optimized for multicore platforms. These include a full set of control plane modules (routing, security, connectivity, mobility etc.), a high-performance networking stack and a wide range of fast path protocols (IPsec, QoS, protocol termination, VLAN etc.) optimized for processors such as the Intel® Xeon® processor family. 6WINDGate eliminates the need for OEMs to invest their engineering resources into combining discrete protocols from multiple sources and/or designing custom optimizations to exploit the performance features of the processor they have selected.

(more)

“We are pleased to release our support for the Intel® Data Plane Development Kit as part of our on-going support for multicore Intel architecture solutions”, said Eric Carmès, CEO of 6WIND. “The 6WINDGate software enables high-performance, software-based networking for cloud equipment based on Intel architecture platforms, while eliminating the time-consuming in-house software development that adds risk to product launch schedules. Many of our clients have already used the 6WINDGate software to develop industry-leading networking products based on Intel architecture processors. We look forward to continued business success as a result of our close collaboration with Intel in developing solutions for future Intel® platforms.”

“The Intel® Data Plane Development Kit is a software library that enables packet processing software to showcase the true performance potential of multicore Intel architecture platforms. Commercial solutions such as 6WINDGate enable customers to quickly implement workload consolidation, enabling not only high performance packet processing but also control plane and application workloads, all on Intel architecture” said Jim St. Leger, technology marketing manager for Intel’s Embedded and Communications Group.

In order to further accelerate their clients’ development process and minimize schedule risk, 6WIND provides the 6WINDGate software pre-integrated with the Intel® DPDK, along with full technical support for the combined solution. This integrated package avoids the need for clients to perform the integration themselves and ensures seamless synchronization between revisions of 6WINDGate and Intel® DPDK.

6WINDGate support for the Intel® DPDK is available now. For more information please visit <http://www.6wind.com/>.

About 6WIND

6WIND provides high-performance packet processing software solutions used by leading suppliers of networking equipment, telecommunications infrastructure and security. The company’s 6WINDGate™ solution eliminates up to twelve months from clients’ product development cycles, while maximizing the performance of their multicore platforms. To ensure the availability of a complete system-level ecosystem, 6WIND partners with industry-leading suppliers of board-level products, operating systems and embedded software products worldwide. 6WIND is a privately owned company based near Paris, France with a US subsidiary in California, a sales and support office in Asia, and an R&D center in Beijing, China. For more information, visit www.6wind.com.

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