



Myricom DBL™

FINANCIAL TRADING SOFTWARE

Myri-10G 10-Gigabit Ethernet

Myricom's DBL™ software provides unmatched communication acceleration and ultra low latency with rapid time to deployment for industry applications in 10-Gigabit Ethernet environments. DBL, running on Myri-10G extreme-performance 10-Gigabit Ethernet network adapters, provides the lowest latency UDP performance available in the financial trading industry. Combined with complementary transparent sockets acceleration, DBL provides the highest performance for UDP multicast and TCP order execution.

With measured application-to-application UDP latencies of less than 3.5 microseconds (compared to tens of microseconds for most competing solutions) and 4.0 microseconds for TCP, DBL provides a compelling competitive advantage for reducing latency and transaction times for applications. Performance-critical applications of DBL include financial trading, and also VoIP, network security, and online databases.

In addition to ultra low TCP latency of 4.0 microseconds, and unlike competitive solutions, DBL delivers small variance of latency for predictable, repeatable performance in real-world applications. Dependable high-speed communication performance is critical. For example, packet delay, or even packet loss, in mission critical trading and order environments can be devastating to the traders' bottom line.

DBL leverages Myricom's extensive experience with kernel-bypass software techniques that allow user-level applications to communicate directly with network adapters, eliminating overhead and latency traditionally incurred by interactions with the operating system. Removing overhead allows data to move between applications and through the network in the least possible time.

When transparent sockets acceleration is leveraged, TCP and UDP protocols will be selectively and transparently accelerated for data transfers that are routed through the DBL-capable Myri-10G 10-Gigabit Ethernet network. Under this mode, existing BSD sockets-based applications can benefit from improved performance without requiring changes to their sources or recompilation. Additionally, the DBL API is also available through sockets-like functions for the UDP portion of applications that can benefit from tighter integration with the network interface.

DBL software distributions are currently available for Linux and Windows. The full DBL API is accessible from C and Java on supported platforms. In addition, DBL can be used via the Java NIO Channel interface on Linux. The Java interface allows existing applications to achieve dramatic latency and transaction-time improvements with only minimal changes to existing source code.

Complete documentation is at <http://www.myricom.com/scs/DBL/doc/>.

For more information see the chart on the back and visit www.myricom.com.

Myricom DBL for Financial Trading Latency under 3.5 μ s for UDP and 4.0 μ s for TCP

