

## What is DBL?

### Model:

N/A

### Software:

DBL

### Operating System:

Supported Windows and Linux release as highlighted in the User Guide.

### Information:

DBL is an optional, user level, software interface for accelerating applications whose performance depends on network latency.

Example: Algorithmic financial trading and others where reduced network latency is beneficial.

DBL software with Myri10G 10-Gigabit Ethernet Network Adapters leverages user level, kernel-bypass, messaging techniques originally developed for high performance computing applications, and applies them to IP communication over Ethernet in a multicast and/or unicast environment.

DBL takes advantages of kernel-bypass firmware in Myri10G Network Adapters to allow high priority user threads to send and receive IP frames directly.

The Typical user-level read latency of DBL on modern hosts is about 1.5  $\mu$ s and the half-round trip Ping-Pong latency is about 3.5  $\mu$ s.

A **“tick to trade”** operation is a trade operation where the quote ticker comes in via UDP and then it is acted upon by sending the trade order via TCP.

In DBL, you could use one port on the adapter for UDP quotes and the other port for TCP orders or both operations on the same port. It is like a regular Ethernet interface where different protocol types may be used.

For more information, please see attached PDF below:



CSPi\_Myricom\_10G-  
PCIE3-8D-2S-DBL\_De

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For licensing, software limitations, and restrictions, and the DBL user guide, please contact CSPI Technical Support([support@cspi.com](mailto:support@cspi.com)).

<b>Revision:</b>	<b>Date:</b>	<b>Change:</b>
1	6/23/2016	Initial Draft
2	7/20/2016	Feedback

