InfiniBand Low-Latency Technical Forum
September 17, 2007
Agenda
Moscone Center West, San Francisco CA
Room 3020

Last updated 9/10/07

TIME		PRESENTATION	SPEAKER(S)
8:00 AM	8:30 AM	Registration and continental breakfast	
8:30 AM	8:45 AM	Opening remarks	Thad Omura, Mellanox
8:45 AM	9:15 AM	Platform Directions at Wachovia (Platform Fabrics / Processor Arrays)	Jacob Hall, Wachovia
9:15 AM	9:45 AM	Financial services ISV - Wombat Financial Software	Ken Barnes, Wombat Financial Software
9:45 AM	10:30 AM	End user case study regarding Oracle installation on InfiniBand	Paul Tsien, Oracle
10:30 AM	10:45 AM	BREAK	
10:45 AM	11:15 AM	InfiniBand Trade Association update OpenFabrics Alliance update	Lloyd Dickman, Qlogic and Jim Ryan, Intel
11:15 AM	11:45 PM	Oak Ridge National Lab's Use of InfiniBand as a High Speed LAN Interconnect	Makia Minich, Oak Ridge National Lab
11:45 PM	12:45 PM	LUNCH	
12:45 PM	1:15 PM	Enormous Computational Demands in Flow and Quantum Physics	Steve Jones and Masoud Aryanpour, Stanford Manufacturing Group
1:15 PM	1:45 PM	The Need for Scalable Clustered File Storage	Anand Babu and Hitesh Chellani, Z Research
1:45 PM	2:15 PM	Latency of Passive and Active Copper Interconnects for Use in InfiniBand DDR Compliant Systems	Dave Blake, W.L. Gore & Associates
2:15 PM	2:45 PM	The Contribution of Intel(R) Connects Cables in Enabling Low Latency Computing	Tom Willis, Intel
2:45 PM	3:00 PM	BREAK	
3:00 PM	3:30 PM	Efficient Web Search Performance and Storage Capacity Scaling Using NFS-RDMA and InfiniBand	Dr. Ekechi Nwokah, Alexa Internet
3:30 PM	4:00 PM	IBTA vendor presentations- New Low Latency InfiniBand Solutions for Unified Fabrics (Voltaire)	Roy Kim, Cisco Brian Forbes, Voltaire
4:00 PM	4:30 PM	Speeding EDA Design Cycles	Synopsys
4:30 PM	5:00 PM	IBTA vendor presentations - Mellanox, QLogic	Thad Omura, Mellanox Skip Jones, Qlogic
5:00 PM	5:15 PM	Wrap up	Thad Omura, Mellanox
5:15 PM	6:15 PM	Cocktail reception	

Scroll Down for Session Info

W.L. Gore & Associates (Return to Agenda)

Latency of Passive and Active Copper Interconnects for use in Infiniband DDR compliant systems

Traditional passive copper interconnects add only the signal time of flight to system latency. Recent technology additions to add active components to the copper interconnects allow 3X the useful interconnect lengths while adding less than 500 pS of system latency.

Alexa Internet

Mining the web with NFS-RDMA and InfiniBand

Alexa Internet stores terabytes of web data which are mined by search applications, many of which process the entire dataset with little or no cache reuse. We present our experiences deploying open-source NFS-RDMA, InfiniBand, and commodity servers as a storage solution: its performance, why we chose it over other solutions, and how it maximizes our ROI.

Wachovia

Remove Two or More Things and Replace Them with One

Increasing complexity with technology is driving your customers over the edge. The cost to provision and recover often exceeds the value to the business and is a barrier to innovation and innovation adoption. Come and hear about our platform vision and three things that we believe will lower our latency.

Bio –

Jacob Hall is the Vice President of Platform Design and Data Center for the Corporate and Investment Banking (CIB) division of Wachovia. In this capacity, he manages the divisions' technology direction for operating systems, high performance computing, networking, storage, and data centers internationally. In a previous role, Hall was a senior platform architect where he managed the emerging technologies lab and led the creation of SOA designs for a high speed messaging bus and other mission critical platforms to service major enterprise applications. In addition to serving on customer advisory boards for two major software companies, Hall served as CTO to a National Non-Profit and represents Wachovia as a technology advisory council member for the Urban League. Prior to joining Wachovia, Hall worked for an electronic bond trading startup and for First Union Capital Markets in the Research and Development group. Hall ea

Z Research

The Need for Scalable Clustered File Storage

Unstructured data and digital content is exploding! In 2006, the amount of digital data created, captured and replicated was 161,000 Petabytes and by conservative estimates, this “Digital Universe” is expected to grow to 1M PetaBytes by 2010. Majority of all governmental date is unstructured. (Source - IDC).

Traditional Storage encounters problems such as such “I/O bottle necks” and / or “Management of disparate pools of data” when attempting to deal with large amounts of unstructured data which has to be accessed by hundreds of clients simultaneously at high throughput rates.

GlusterFS addresses these I/O scaling issues by aggregating multiple storage bricks over InfiniBand RDMA into one large parallel network file system is able to achieve aggregated throughput of 13GBps with just 16 storage servers clustered over InfiniBand.
Examples of Industry Verticals that can significantly improve ROI by deploying GlusterFS based Clustered Storage – Digital Media, Oil & Gas, Animation, Web Services, Web 2.0 and HPC (High Performance Computing).

Intel

The Contribution of Intel(R) Connects Cables in Enabling Low Latency Computing

Tom Willis will discuss the contribution of Intel(R) Connects Cables in enabling low latency computing.

Wombat

Market data, the lifeblood of the capital markets, is perhaps the world's most performance intensive applications of messaging technology in the enterprise. To provide multi Gigabit capacity with connectivity to hundreds of financial markets world wide, Wombat has created the first commercially available, native InfiniBand, RDMA-based messaging platform: Wombat Data Fabric. Wombat will explain the market data problem and how Wombat Middleware is solving it for the most aggressive trading operations on the street.