An Industry Report
Modular Computing Series 2006

Architecting
Next Generation Data Centers

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Architecting Next Generation Data Centers

T A B L E   O F   C O N T E N T S

By Server Interconnects (IB, GbE..)

5. Emerging Technologies & Standards

Server Technologies
Blade Servers
Clustering
Interconnect Fabrics (IB, proprietary, IP, PCI-Express)
Server Virtualization
Server I/O Technologies
Provisioning – Solutions and Standards
Automation
SAN Technologies
Industry Initiatives
Infiniband, GEA, RDMA Consortium, MS Chimney..
State of Progression of Interconnect & related Technologies
TOE, RDMA, iSCSI, RDMA over IB and RDMA over IP,
Integrated Remote Management
FC vs. IP SANs
Performance Benchmarks & Standards

6. Major Suppliers & Strategies

Players by Market Segment
Vendors in Value Chain by Technology Segment
Infiniband (Chips, HCA/TCAs, Switches/Gateways, Systems, Solution Providers, Distributors)
GbE/10GbE (Chips, HBA, Multifunction NICs,Hubs/Switches/Routers, Systems, Solution Providers, Distributors)
IB Vendor Profiles
Mellanox, Fujitsu, Infinicon, Top Spin, Voltaire, Agilent, HP, Sun, IBM ..
GbE Vendors Profiles

7. Competitive Products Positioning

Interconnect Metrics - Latency vs. Bandwidth
Proprietary Interconnects Myrinet, Quadrics, ServerNet, SCI..)
Open Standard Interconnects (Infiniband, GbE PCI Express..)
Pricing Structures & Price Erosion Curves

8. Go-to-Market Strategies & Channels of Distribution

Targeted Markets – OEMs vs. Partners
Effective Marketing Programs
Channels used by Chip, Switch & System Vendors
Pricing Structures – OEM, Distribution, Street
Top 10 Potential OEMs
Top 50 Potential System Integrators
Top 50 Potential Solution Providers
Top 50 End Users by Vertical Industry Sectors

9. Recommendations

10. Research Methodology & Appendices