

Hot Interconnects '12 – Panel Discussion



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Interconnect Roadmap







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Data Center Network Architecture Facing New Demands







- North-South Traffic
- N-Tier Network
- Performance Limits
- Expensive, Hard to Manage

- East-West Traffic
- Flat Network
- Fast Interconnect
- Scalable and Manageable

From Slow and Complex to Fast and Flat

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Interconnect Impacts Data Center Value





Balanced System = Uncompromised Performance

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Panel named

"THE NETWORK IS MOVING INTO THE SOCKET"



Panel named

"THE NETWORK IS MOVING INTO THE SOCKET"

Should have been

"THE SOCKET IS MOVING INTO THE NETWORK"

("THE NETWORK IS THE COMPUTER")

THE SOCKET IS MOVING INTO THE NETWORK



- Interconnect technology has equal or higher importance
 - Intel (NetEffect, Fulcrum, QLogic IB, Cray I/O, Whemcloud); AMD (SeaMicro)
 - Others will emerge as well, market does not accept monopolies
- We will witness several potential technologies integrations
 - NVIDIA (ARM) etc.
- Any integration has pros and cons
 - CPU / interconnect development / innovations not aligned (interconnect faster)
- Overall compute / storage architecture will remain the same
- Technology development is the key the better technology (not integration) will win

