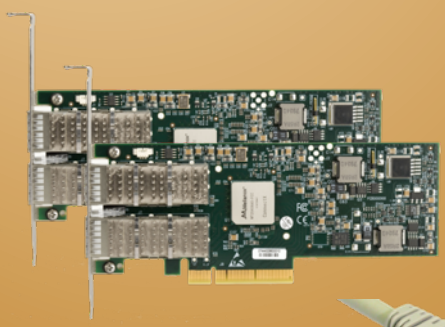
The Darwin Cluster @ LANL

Evaluating the Evolution of HPC

Network Evolution: Dense-Node Communication

120 nodes: Dual-Rail QDR InfiniBand
2 I/O Gateway nodes: 4x Gigabit Ethernet NICs



- Investigation of dynamic & static allocation of BW to specific cores
- Optimize I/O Gateway Nodes using IB-QDR to GigE Protocol conversion.

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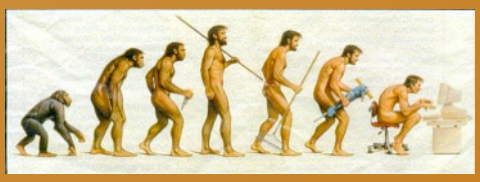

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NNSA National Nuclear Security Administration