SGI in HPC: The Anatomy of a Turn Around

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SGI
HPC Leadership Recognition

HPCwire Ranks SGI #1 Vendor to Watch...AGAIN

SGI Receives 7 Readers’ and Editors’ Choice Awards for Outstanding Achievements in Science and Technology
World Record Achievements

Speed
Fastest distributed memory supercomputer for 5+ years

Scale
Largest coherent shared memory supercomputers

Efficiency
The most efficient supercomputer in the TOP500
Business Momentum: Poised for Growth

• 24% Revenue Growth
• HPC Big Deals: TI-14, TI-15, NIMMS, Total
• SGI is diversifying outside of Federal: Manufacturing, Research Markets, Oil & Gas and Automotive industries
Convergence of HPC in the Enterprise

- The enterprise can benefit from the lessons learned from technical computing
- Data is exploding with the Nexus of Everything creating more complexity
- In Memory Analytics in Mainstream Apps
- Multi-PB Data lakes growing to Data Oceans
Trend: In-Memory Moving to Enterprise
Enhancing Postal Efficiency

Customer
• United States Postal Service (USPS)

Challenges
• Reduce mail fraud for 160 Billion packages per year
• Increasing demand for analysis and tracking, geospatial analysis

Solution
• SGI® UV™ 2000 with Intel® Xeon® processors; NUMAlink® Interconnect
• FedCentric’s Memory-Centric Database (MCDB) Accelerator
• Oracle in-memory database

Benefits
• Real-time fraud detection
• Rapid ROI through recouped lost revenue
• Considerable savings in Oracle licenses
• Follow up: Near-real-time decision making, geospatial mapping and analytics