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The Flexible Enterprise: Open, Scalable, Powerful

Sgi

Industry mega-trend:

LINUX[®] wave is transforming the enterprise



Criteria for the 21st Century Enterprise Platform

- Minimizes risk
- Improves utilization
- Maximizes ROI
- No proprietary shackles
- Enables efficient consolidation



Market analysis – Market size facts

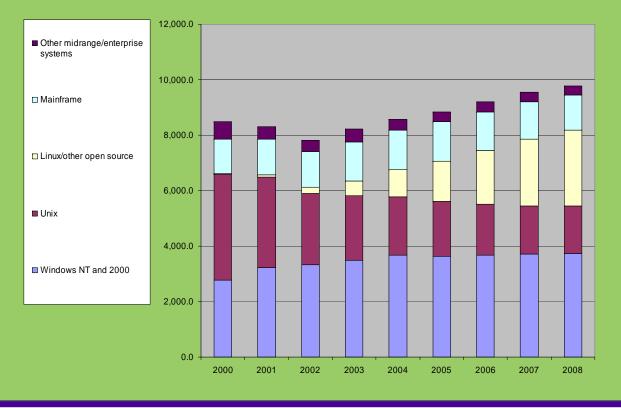
Data from analysts:

IDC 05 IDC IDC	Technical server market Enterprise server market Enterprise Storage market	\$7.25B \$53B \$20B	+6% growth to 2009 +5% on 2003
Gartner 05	All servers 2004	\$49.5B	+7,2% on 2003
Gartner 05	Unix [®] servers 2004	\$16.2B	-2,8% on 2003
IDC 05	Unix [®] servers 2004	\$14.4B	+5.1% on 2003
IDC 05	Linux [®] servers Q4-04	\$1.3B	+35.6% on Q4-03
IDC 05	Windows [®] servers Q4-04	\$4.6B	+15.5% on Q4-03



Market analysis - Market trends

Linux[®] is major growth platform for DBMS, growing from 6% market share in 2003 to 28% in 2008 (IDC)



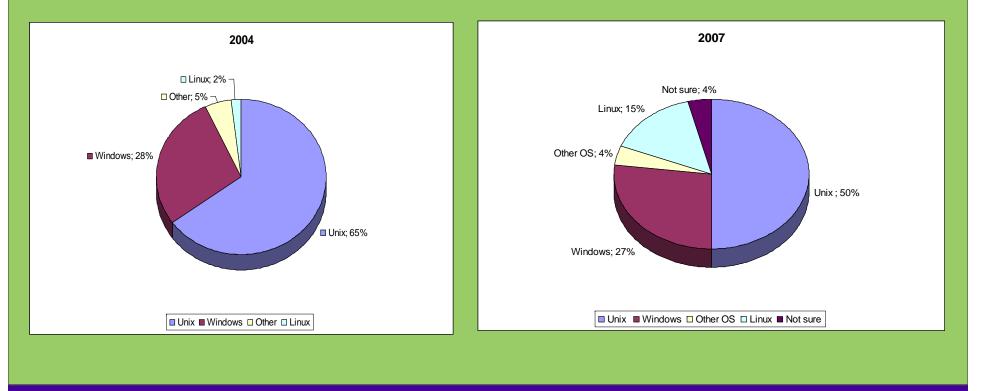
Worldwide RDBMS Software License Revenue by Platform, 2000-2008



Migration trend of BIG3 ERP

based on ERP & Linux Peerstone research Nov 2004

Question: What platform is used today and three years from now? Asked SAP, Oracle and PeopleSoft users (represents about 700,000 installed servers)





Gartner Server Consolidation Research

		1998	2001	2002	2003
1	No plans to consolidate servers	25%	6%	8%	6%
2	Want to consolidate servers and are looking into doing a consolidation	45%	25%	25%	28%
3	Have a consolidation project under way	30%	69%	67%	61%
4	Have already done a server consolidation and have no plans for any more (Only asked in 2003)	-	-	-	5%
	Total respondents	100+	116	475	518



Analyst opinion - Gartner

Gartner predicts that 60% of enterprises with 500 or more employees will have migrated 80% of their Unix[®] OS-based applications to Linux by 2008.



Linux[®] is <u>the</u> infrastructure platform for the Flexible Enterprise



Linux[®] is a cost effective solution

- Lower OS cost
- Forced upgrades of application software minimized
- Lower dependency on single vendor decreases risk



Linux[®] is the OPEN Unix[®] of the future

- Linux is an enterprise class operating system with a wide range of available applications
- Linux delivers what Unix was originally supposed to do: compatibility, portability and freedom from dependence on any proprietary platform
- Linux is the ideal platform for enterprise consolidation
- Linux is secure CAPP/EAL3+ certified (September 2005)

It isn't "Linux or Unix": Linux is Unix



Linux Delivers Business Benefits

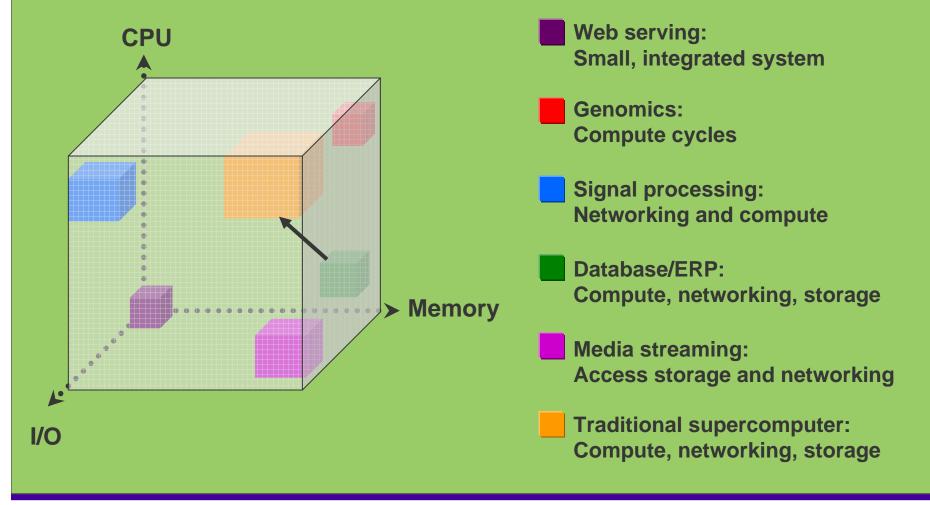
- Efficiency and Control
 - Better utilization of available IT resources
 - Reduced IT server expense
- Greater Organizational Flexibility
 - Efficiently adapt infrastructure to incorporate new technologies and respond
 - to new
 - business requirements
 - Allows infrastructure to adapt to organizational changes
- Reduced Risk
 - Industry standards means maximum flexibility
 - Linux is here to stay
- Lower Total Cost of Ownership
 - Simpler, easier to maintain systems and infrastructure
 - Increased yields from IT expenditures
 - Expanded lifecycle of IT infrastructure



SGI delivers ideal building blocks for Flexible Enterprise infrastructure



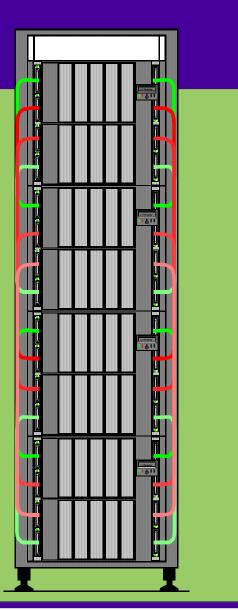
Tailored Solutions with Modular SGI[®] NUMAflex[™] Architecture





SGI[®] Altix[®] 4000 Platform Extending Performance Leadership

- Superior Performance Density: nearly 3x the density of Altix® 3700 Bx2
- 'Plug and solve' Versatility: 8 standardized blade choices and high-speed SGI[®] NUMAlink[™] backbone supports top performance for any demanding application
- Best Performance on Cluster Applications: NUMAlink[™] interconnect beats the competition with sub-microsecond latency





SGI® Altix® 4700 Platform: Building Blocks

Filler Panel	Graphics Blade	Blade Slot 4	Blade Slot 6	Blade Slot 8	Blade Slot 10	L1 Display
Filler Panel	I/O Blades	CPU Blade	Memory Blade	RASC Blade	Blade Slot 9	
Novell® SUSE®						

& Red Hat Enterprise LINUX

Processor Blades

- One to four Intel[®] Itanium[®] 2 processor sockets per blade
- Ideal for data-intensive applications requiring highbandwidth per FLOP and computationally-intensive apps requiring high-density and maximum FLOPS

Memory Blades:

- Independent memory expansion enables best-inclass global memory addressing
- Scales to 60TB per system

I/O blades

- Full spectrum of interconnects and capabilities: hot-swap, PCI-X and PCI-express
- SGI's InfiniteStorage products

Graphics processing blades

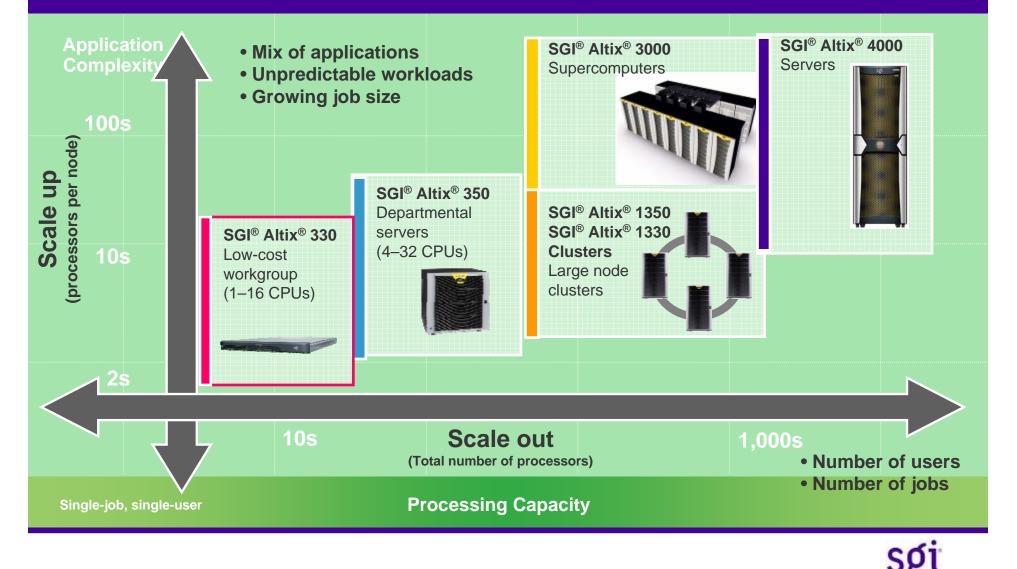
- SGI's legendary visualization products
- Emerging high-performance processing applications

FPGA-based RASC[™] processing blades

- Core algorithm acceleration and custom processing

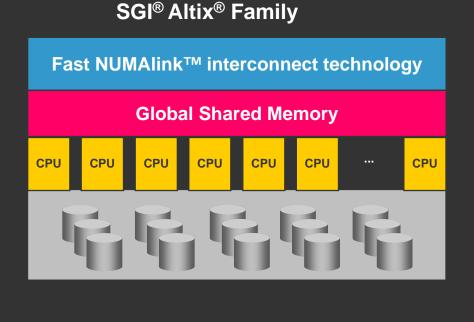


High-Performance SGI[®] Altix[®] Servers and Supercomputers



SGI® Altix[®] Server High-Performance Architecture

- NUMAflex[™] global shared memory and ultra-high bandwidth interconnect
- Modular, expandable architecture-processors, I/O, memory



- All processors operate on one large shared-memory space
- Industry's highest bandwidth interconnect at 6.4GB/second
- High performance, low cost, easy to deploy



Innovative Shared Memory Architecture

Traditional Clusters

Commodity Interconnect

mem	mem	mem	mem	mem
system	system	system	system	 system
+	+	+	+	+
OS	OS	OS	OS	OS

- Each system has own memory and OS
- Nodes communicate over commodity interconnect
- Inefficient cross-node communication creates bottlenecks
- Coding required for parallel code execution

SGI® Altix® Family SGI® NUMAflex™ Interconnect Global shared memory System system system system

- All nodes operate on one large shared memory space
- Eliminates data passing between nodes
- Big data sets fit entirely in memory
- Less memory per node required
- Simpler to program
- High Performance, Low Cost, Easy to Deploy



Memory architecture advantages

Large single image memory allows all data to be memory resident, which increases data access significantly

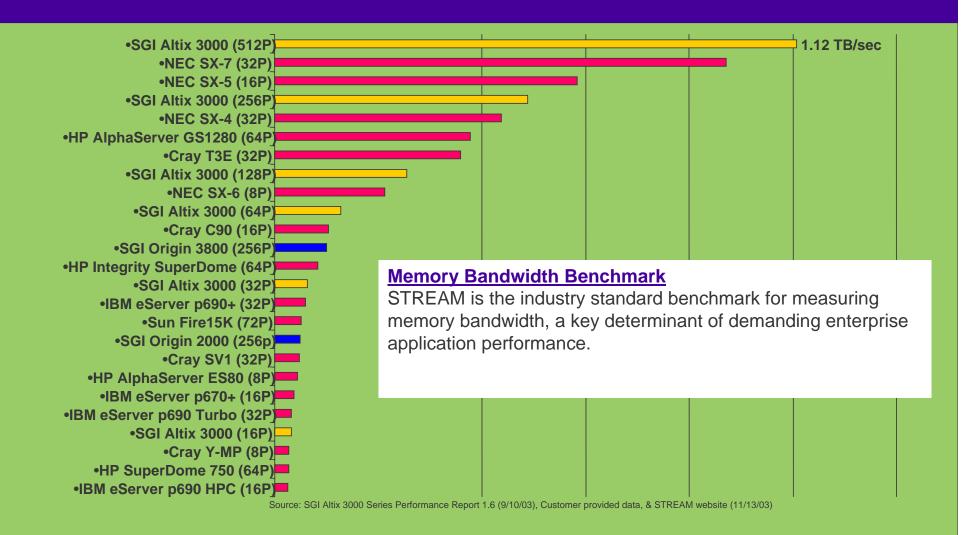
- Transactional applications
- Data Warehousing/BI applications
- Scientific models

Middleware providers (SGI partners) are targeting "big memory database" trend

- NexQL
- Exegy
- Oracle has acquired TimesTen



STREAM Benchmark Top 20 Results





In the enterprise market, SGI is scaling down where others are trying to scale up!



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