Silicon Graphics Prism™ Deskside

The Power to Visualize More

Benefits

- Seamlessly and independently scale system resources (CPU, I/O, memory, storage, graphics)
- Visualize 20GB datasets using a single, system-wide, shared memory
- Increase application performance by accessing all your data with industry-leading system bandwidth
- Transparently access and share data and resources from cross-platform clients for effective collaboration with Visual Area Networking
- Increase visualization performance and image quality by combining the power of multiple GPUs
- Accelerate team insight by driving the ultimate in Reality Center® immersive environments
- Hundreds of Linux compute and visualization applications available
- Run IRIX® applications through the QuickTransit™ dynamic binary translator without recompiling
- Exploit the power of a comprehensive development environment and true scalable visualization with a host of OpenGL® based tools and APIs, including OpenGL Performer™, OpenGL Multipipe™, OpenGL Volumizer™, and other open source tools

The Silicon Graphics Prism™ Deskside system puts more visualization capabilities and greater memory capacity into the hands of power users. It delivers double the usable memory of competing Linux® platforms and an architecture designed to support maximum performance for two CPUs and two GPUs under extreme workloads. By delivering new levels of performance to power users it answers a rapidly growing need to interact with ever-larger datasets among engineers, scientists and researchers for whom faster insights can cut time to discovery and speed time to market.

As the entry point for the Silicon Graphics Prism family, this visualization powerhouse shares the unique Silicon Graphics Prism architecture that delivers differentiated performance from best of breed standard components. Starting under US$8,500, Silicon Graphics Prism Deskside bridges the gap between PC workstations and scalable rack-mounted visualization systems.

Breaking Through Barriers

- Virtually and interactively test the efficacy of newly discovered vaccines and compounds
- Develop safe and cost-effective drilling strategies to maximize returns on oil fields and gas reservoirs
- Diagnose life-threatening medical conditions in unprecedented detail

Interactivity for Rapid Insight and Discovery

- See more by interacting with all your data, even files that reach 20GB in size
- Study larger datasets without worrying about the limitations of a cluster
- Combine computation and visualization to accelerate your workflow and increase productivity

Room to Grow for the Future

- Access to high performance features and capabilities, starting at less than US$8,500
- Seamlessly and independently scale compute, memory, graphics and I/O
- Start small with single or dual users, and expand to meet the needs of your entire team

Silicon Graphics Prism Deskside breaks through existing bottlenecks of PC workstations and commodity Linux systems by combining a proven 64-bit Linux environment with the SGI® scalable, shared-memory visualization architecture. Based on the same high-performance system architecture as the record-setting SGI® Altix® servers and supercomputers, the Silicon Graphics Prism Deskside is the only system of its kind driven by up to two Intel® Itanium® 2 processors and one or two ATI® graphics processors, delivering unparalleled price/performance.

Affordable and deployable, the Silicon Graphics Prism Deskside system displays up to 10 million combined pixels. With dual ATI® FireGL™ graphics processors, two power users can share the system at once. And dual-channel support for passive stereo viewing means the deskside system can serve as your low-cost SGI® Reality Center® platform, delivering full interactivity without compromising the high-resolution immersion for which Reality Center implementations are famous.

The deskside system also makes entering the flexible SGI visualization ecosystem more affordable than ever. As your needs escalate, so can your visualization environment: deploy rackmount systems that scale up to 16 graphics pipelines, 3.0TB of memory and 256 processors. Rely on a visualization product line that offers many times the visualization capability of any other system in the world. And easily integrate your new deskside Linux system with legacy SGI visualization systems. Support for QuickTransit™ for Silicon Graphics, a dynamic binary translator, lets you transparently run your unmodified IRIX binaries on your Silicon Graphics Prism system—with immediate performance improvements.

Put the advantages of Silicon Graphics Prism systems to work for every power user in your environment—and visualize more than you ever have before.

Silicon Graphics Prism™ Deskside

System Features

Form Factor
- Deskside

Processor Support
- Up to two 64-bit Intel® Itanium® 2 Processors
- 1.3 GHz or 1.6 GHz
- 3MB L3 Cache

Memory Capacity
- 2GB to 24GB DDR I SRAM

Graphics pipes
- Up to two ATI FireGL T2 graphics with 128MB memory; one DVI-I port and one analog port
- Up to two ATI FireGL X3 graphics with 256MB memory; two DVI-I ports

Internal Storage
- Up to two 80GB or 160GB 7200RPM SATA drive
- One DVD-ROM drive

I/O
- One IDE channel for DVD-ROM
- Three internal SATA channels
- Four RS-232/RS-422 serial ports
- One 10/100/1000 BaseT Ethernet port
- Five USB-A 2.0 ports
- Six 133 MHz, 64-bit 3.3V slots

PCI Expansion Options
- Single and dual-port 2GB Fibre Channel
- Dual-port LVD Ultra SCSI adapter
- Dual-port serial card
- Four-port USB card
- 10 Gigabit Ethernet card
- Dual-port Gigabit Ethernet card

Software
- SGI Advanced Linux™ Environment with SGI ProPack™
- Gnome/KDE Window Manager
- OpenGL 1.5 with GLSL extensions
- OpenOffice

Physical Environment

Dimensions and Weights
- 16.11"(H)x13.48"(W)x21.39"(D)
- Maximum Weight: 60 lbs

Environmental (Operating)
- Temperature: +5C to +35C, altitude 5000 MSL
- Temperature: +5C to +30C, altitude 10000 MSL
- Humidity: 10% to 95% noncondensing

Environmental (Nonoperating)
- Temperature: -40C to +60C
- Humidity: 10% to 95% noncondensing
- Altitude: 40,000 ft.

Electrical and Power
- Voltage: 120/240 VAC auto-sensing worldwide power supply
- Power Requirements: 750W
- Electrical service type: VAC at 15 amp

Support and Services

SGI provides full support for Silicon Graphics Prism hardware and systems software. SGI also offers services to implement and integrate Linux applications in your environment. For more information, please see *www.sgi.com/support*.

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