

Revolutionary
Mid-range Server
Delivers New Levels of
Performance, Efficiency
and Flexibility with a
Modular Blade Design

SYSTEM HIGHLIGHTS

Scalable blade design for excellent performance density and 'plug and solve' flexibility

Delivers industry-leading power efficiency—best sustained flops per watt

Designed for future upgrade and expansion

Scalable system size for simplified programming, administration and sustained performance

Standards-based platform reduces cost while delivering uncompromised performance on Linux

SGI® Altix® 450

Innovative Modular Blade Design for Excellent Performance Density and 'Plug and Solve' Flexibility

SGI® Altix® 450 servers are configured from interchangeable compute, memory, I/O and special purpose blades for 'plug and solve' configuration flexibility. The innovative blade-to-NUMALink™ architecture enables users to mix and match nine standardized blade choices, for perfect system right-sizing. The compact blade packaging of the Altix 450 rack also provides excellent performance density—up to half a teraflop per half rack—as well as industry-leading power efficiency.

Designed for Future Upgrade, Expansion and Integration of Next-generation Technologies

SGI Altix 450 supports Dual-Core Intel® Itanium® Processors, and offers easy upgrade or expansion of memory, I/O or other capabilities. This flexible growth path makes it possible for customers to adjust system configurations to meet current and changing requirements easily and cost-effectively—minimum risk for maximum productivity. Altix 450 also features peer-connectivity for all components which enables high-speed access to SGI's large shared memory.

Scalable System Size for Simplified Programming, Easy Administration and Sustained Performance

SGI Altix 450 incorporates the shared-memory NUMAflex™ architecture, which simplifies software development, workload management and system administration. It supports up to 38 sockets* (76 cores) under one instance of Linux and up to 864



GB of globally addressable memory. Supporting these powerful capabilities is the NUMALink™ interconnect, which leads the industry in bandwidth and latency for superior performance on cluster applications. The SGI Altix 450 represents a versatile solution for shared or distributed memory applications.

Standards-based Platform Reduces Cost While Delivering Uncompromised Performance on Linux

SGI Altix 450 servers have been designed specifically for demanding users based on industry standard cpu's, memory and I/O. This infrastructure is supported by a complete solution stack running on industry standard Linux® operating systems with the choice of Novell® SUSE Linux Enterprise Server or Red Hat® Enterprise Linux® Advanced Server 4 operating systems. SGI® ProPack™ software provides the tools and enabling software to optimize performance for Altix systems.



