

# SGI® ICE X

The World's Fastest Supercomputer  
Just Got Faster

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[sgi.com/icex](http://sgi.com/icex)

Use this chart to estimate the quantity of SGI ICE X racks needed to achieve your desired compute performance.

SGI® ICE X Rack Sizing*			
	Compute Performance	D-Rack Quantity IP-113 Single-Node Blade	M-Rack Quantity IP-115 Twin-Node Blade
Teraflops	50	3	2
	100	5	3
	250	12	6
	500	23	12
	750	34	17
Petaflops	1	45	23
	2	89	45
	5	223	112
	10	445	223
	100	4,445	2,223

\* Estimated based upon public information dated Sept. 22, 2011. Rack sizing information will improve upon public release of additional Intel® Xeon® processor E5 family performance data. Visit [www.sgi.com/pdfs/4332.pdf](http://www.sgi.com/pdfs/4332.pdf) for the latest version of this SGI ICE X Rack Sizing table.

## Key Features & Benefits

**World record cluster performance:** World's "fastest distributed memory system" as measured by SPECmpim\_2007 over three years running.

**Largest performance boost ever:** Up to 5x performance density improvement over previous industry-leading generation - with Intel® Xeon® processor E5 family.

**Highest performance** and most scalable system for CFD, now optimized for SGI OpenFOAM®.

**World-renowned SGI quality and performance:** Entirely built on industry-standard hardware and software components, enabling access to the full spectrum of the Linux ecosystem.

**Installs production-ready in hours** or days, not weeks or months.

**Flexible to fit your workload:** Ultimate flexibility in topology and interconnect, power, cooling, CPUs and memory.

**Only system in its class capable of seamless scalability** from tens of teraflops to tens of petaflops.

**Only system in its class offering expandability** within and across technology generations while maintaining uninterrupted production workflow.

