



# Refresh your Infrastructure, Reinvigorate your Business

As Windows\* Server 2003 approaches end-of-life, it's time to upgrade to Windows Server 2012 along with the Intel® Xeon® processor E5-2600 family. The results will help drive better efficiency and performance for your IT operations.

## PAIN

AGED INFRASTRUCTURE SLOW AND DIFFICULT TO MAINTAIN



Limits on virtualization



Excessive power costs and constraints



Security risks

## PROBE



How old is your installed base?



Is your equipment out of warranty?



Are you sufficiently protecting your data?



Are you virtualizing on-premise, or moving to public cloud?

## GAIN

Upgrading to Windows Server 2012 with an Intel® Xeon® E5-2600 processor-based infrastructure along with Intel® SSD 510 Series and Intel® 10 Gigabit Ethernet can produce:

- Improved performance
- Higher reliability
- Lower TCO/higher ROI
- Enhanced security and data protection
- Improved customer satisfaction



## VALUE

Windows Server 2012 and Intel® Xeon® infrastructure are better together.

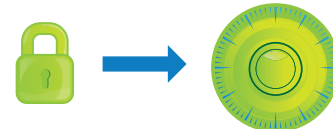
Up to a **585%** boost in performance<sup>1</sup>



Up to a **66%** decrease in idle power consumption<sup>2</sup>



Easier & faster encryption—over **10X**



Up to **30%** reduced latency



Estimate your server refresh savings: [www.intel.com/xeonestimator](http://www.intel.com/xeonestimator)

Software and workloads used in performance tests may have been optimized for performance only on Intel microprocessors. Performance tests, such as SYSmark and MobileMark, are measured using specific computer systems, components, software, operations and functions. Any change to any of those factors may cause the results to vary. You should consult other information and performance tests to assist you in fully evaluating your contemplated purchases, including the performance of that product when combined with other products.

See Page 2 for footnote and testing configuration information.



## Footnotes and configurations for *Refresh Your Infrastructure, Reinvigorate Your Business.*

- 1 Estimated SPECint\*\_rate\_base2006 results for 2S server platforms based on Intel® Xeon® Processor E5-2690 vs.. Intel® Xeon® Processor X5365. See below for configuration details.
- 2 Estimated idle power results for 2S server platforms based on Intel® Xeon® Processor E5-2690 vs.. Intel® Xeon® Processor X5365. See below for configuration details.
- 3 Results have been estimated based on internal Intel analysis and are provided for informational purposes only. Any difference in system hardware or software design or configuration may affect actual performance.

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Relative performance is calculated by assigning a baseline value of 1.0 to one benchmark result, and then dividing the actual benchmark result for the baseline platform into each of the specific benchmark results of each of the other platforms, and assigning them a relative performance number that correlates with the performance improvements reported.

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### Configuration Details:

Processor	Intel® Xeon® Processor X5365 (4C, 3.0 GHz, 150W)	Intel® Xeon® Processor E5-2690 (8C, 2.9 GHz, 135W)	Intel® Xeon® Processor E5-2690 (8C, 2.9 GHz, 135W)	Intel® Xeon® Processor E5-2690 (8C, 2.9 GHz, 135W)
Sockets	2	2	2	2
Memory	8 x 2GB 667MHz ECC	8 x 8GB DDR3-1600 REG ECC	8 x 8GB DDR3-1600 REG ECC	8 x 8GB DDR3-1600 REG ECC
Disk	SAS	SAS	SAS	Intel® Solid-State Drive 510 Series
OS Distribution	Microsoft Windows* Server 2003	Microsoft Windows* Server 2003	Microsoft Windows* Server 2012	Microsoft Windows* Server 2012
Compiler	Intel® Compiler 10.0	Intel® Compiler 13.0	Intel® Compiler 13.0	Intel® Compiler 13.0
Idle Power (W)	269 (estimated <sup>3</sup> )	110	98	92
Performance (SPECint*_rate_base2006 score)	92 (estimated <sup>3</sup> )	557 (estimated <sup>3</sup> )	628 (estimated <sup>3</sup> )	631 (estimated <sup>3</sup> )