



## Intel® Xeon® Processor E5 family: What Software Partners are Saying

Leading software vendors worldwide discuss how platforms based on the new Intel® Xeon® processor E5 family deliver exciting new capabilities to address the demands of diverse workloads. Below you will find examples of Enterprise, Cloud Computing, Financial Services, Business Intelligence, High Performance Computing, Healthcare, Search Engine, Operating System, and Virtualization solutions.

### Enterprise

“The enormous growth in data volumes and the complexity of analysis requirements in today’s data warehouse market demand innovative database solutions with more efficient performance and scalability. Looking at the performance of the Intel® Xeon® processor E5 family-based platform it shows clearly just how great the potential is for reducing spending on hardware and power consumption in cluster and virtualization environments. Put simply: the Intel® Xeon® processor E5 family-based platform delivers more performance than other servers – so why invest more in hardware than you have to? EXASolution 4.0 and the Intel servers have once again shown that this combination is the right answer to growing market requirements.”

**Steffen Weissbarth, CEO, Exasol**



“Already extremely fast, solidDB increased performance by 30% when run on the Intel® Xeon® processor E5-2600 product family. Couple this with the up to 85% increase in performance realized when moving to solidDB version 7.0 that utilizes the Intel® Parallel Studio XE and the performance enhancement of the next generation solution is over 100%. We are pleased with the extreme speed.”

**Joni Lehtomaki, solidDB Development Program Director, IBM**



“OBC welcomes the launch of Intel® Xeon® processor E5 family-based platforms, which we believe are the best platforms for Bugyo V ERP.

Bugyo V ERP is the high-end Bugyo series that satisfies the needs of large enterprises. Those companies have to unify ERP applications of group companies due to the requirement of IFRS. Among our customers of Bugyo V ERP, we see more cases in which shared application is used in virtualization. Our test result shows that Intel® Xeon® processor E5 family-based platforms can handle approximately 40% more users compared to the previous platform in such shared environment.

We believe we can provide our Bugyo V ERP customers a higher performance and more cost efficient solution with the Intel® Xeon® processor E5 family-based platforms.”

**Shigeru NAKAYAMA, OBIC BUSINESS CONSULTANTS Co., Ltd. Executive Managing Director, General Manager of development department**





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“With the Intel® AES-NI encryption enabled we saw a 25% faster finish using a database consistency checkload with 20% less CPU utilization. Additionally, we experienced a fantastic 2.1x speedup of Encryption/Decryption compared to not using AES-NI.”

**Jochen Haller, Chief Security Officer SAP**



### Cloud Solutions

“Besides the great performance boost on the Intel® Xeon® Processor E5-2600 product family, Intel® Node Manager technology also supports Neusoft Aclome™ Cloud to save 13% power consumption under normal workload pressure. The Intel® Xeon® Processor E5-2600 product family enables Neusoft Aclome™ Cloud to be more powerful and more economical; it definitely will be one of our preferred platforms.”



**Yu Hongyong, Director of Neusoft Solution Readiness Center**

“Comparing to previous Intel® Xeon® Processor 5600 series based platforms, UFIDA PASS Platform shows 1.41X performance boost on the Intel® Xeon® Processor E5-2600 product family based platform. SR-IOV enabled 10Gb NIC enables UFIDA PASS Platform to fully utilize the platform I/O capability to gain better performance under virtualization environment. It is an ideal hardware platform for UFIDA PASS Platform and surely will help us to deliver better services to our customers.”



**- Wang Guowei, director of UFIDA PASS Center Development Department**

“Some key innovations from Intel® are helping SAP deliver SAP Business ByDesign based solutions to a level we barely dreamed possible. In terms of performance, we are at 1000 concurrent users on a single blade implementation coming from 700 at previous Intel® Xeon® processor 5600 series.



SAP's Business ByDesign based Cloud solutions benefit significantly from the Intel® Xeon® processor E5-2600 product family.

Jointly with Intel SW engineering, a 2x factor in energy savings was measured with Intel® Xeon® processor E5-2600 product family compared to the current reference architecture. A 15% improvement in response time was achieved, even with the energy saving features turned on.

This is a significant contribution to overall TCO and CO2 reduction at SAP's worldwide Data Center deployments.”

**Rainer Zinow, Senior Vice President, SAP Business ByDesign**

\*Other names and brands may be claimed as the property of others.



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### Financial Services

"Our latest benchmark results on the Intel® Xeon® processor E5-2600 product family demonstrates Algorithmics' continued commitment to improving our software performance and reducing the total cost of ownership for our clients. With industry-standard, low-cost hardware, global institutions can cost-effectively perform Monte Carlo risk simulations for their largest trading counterparties in a few minutes, and execute what-if risk profiles in milliseconds for pre-deal analysis on the trading room floor."



***Neil Bartlett, Chief Technology Officer, Algorithmics, an IBM Company***

"Omnesys\* NEST\* is an innovative order management solution used extensively for algorithmic and prop trading, with ultra-low latency and massive throughput capabilities. Under test lab conditions, the Intel® Xeon® processor E5 family-based platform was able to reduce TCP latency by 40% , compared to the Intel® Xeon® processor 5600 series based platform"



***Shrikant Pandit, Managing Director, Omnesys Technologies***

"Regulatory mandates and the recent economic and sovereign debt crisis has led to a rise in banks re-evaluating their operational frameworks and risk management strategies. Today, risk management professionals demand high performance scalable solutions that enable timely, complex and dynamic modeling of customer behavior, economic valuation, interest rate scenarios and a wide range of other variables. With Intel's new Intel® Xeon® processor E5 2600 product family based servers, SunGard's Ambit Risk & Performance QFL solution achieved a 42% increase in performance as compared to previous benchmarks. Innovations such as Intel® Advanced Vector Extensions (AVX) help provide our customers the performance they will need to handle higher data volumes and complex risk calculations and models."



***Jo Osinga – SunGard Risk and Performance Management***

We successfully collaborated with Intel® to configure a virtualized private cloud. The cloud framework enables developers to run concurrent Asset & Liability Management (ALM) regression testing and validation. We were able to run 15 virtualized instances on the new Intel® Xeon® processor E5-2600 product family based platform versus 11 virtualized instances on the previous Intel® Xeon® processor 5600 series based platform; without any performance degradation. This is significant because it will enable SunGard's software development team to properly size customer computing needs based on critical Risk calculation requirements. In addition, the ability to host 27% more virtual machines per server impacts SunGard's Total Cost of Ownership for our private cloud solution because it reduces our operational costs."

***Jiaping Zhang – SunGard Risk and Performance Management***

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### Business Intelligence

“Dr. Sum EA 4.0 aggregates big data in high speed with a distributed processing architecture. As Dr.Sum EA 4.0 was compiled with Intel Composer XE, it provides great performance on the latest Intel platform.



Our test shows that Dr. Sum EA 4.0 experiences nearly 2x performance increase on the Intel® Xeon® processor E5 family-based server vs. the Intel® Xeon®5600 series based server.

We believe our customers will get immediate benefits with the combination of Dr. Sum EA 4.0 and a Intel® Xeon® processor E5 family-based platform. More managers at various levels can make timely analysis of large data sets to visualize the business and increase the company’s agility.”

***Jun Tanaka, Chief Technical Officer, 1st Holdings, Inc. (WingArc’s holding company)***

### Energy

“With multi-\$100MM reservoirs in play, an inexpensive hardware upgrade to Intel® Xeon® processor E5 family-based platforms enables significant performance improvements for our end users, maximizing their engineering and software investments to make better decisions sooner, using higher fidelity models and running more 'what if's' than before.”



***Ken Dedeluk, President & CEO, CMG***

“The Paradigm™ GeoDepth® code exploits all the architectural features of the Intel® Xeon® processor E5-2600 product family based platform, including the Intel® compiler generated Intel® AVX instructions, and the Intel® Math Kernel Library. We are seeing excellent results on this innovative Intel Microarchitecture, enabling our Seismic Imaging and Processing customers to significantly reduce the time to solution for the imaging steps in seismic migration workflows”



***Duane Dopkin, Paradigm executive vice president, technology***



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## Computer-aided Engineering

“The strong relationship set up with Intel® allowed us to optimize our solvers for this cutting-edge platform at its release. The Intel® Xeon® processor E5 family-based platform really offers an amazing computing performance to our customers for running RADIOSS Hybrid MPP.”



**Eric LEQUINIOU, HPC Director, Altair**

“ANSYS has worked with Intel to make sure our joint customers can leverage the new Intel® Xeon® Processor E5-2600 product family, running larger, higher-fidelity models to improve product quality. This new platform, with performance 60% or more over the prior Intel generation, is a powerhouse for a majority of workflows and is a welcome component of high-performance computing as a strategic technology for engineering simulation.”



**Joe Solecki, Vice President, Physics Business Unit, ANSYS, Inc**

## Sciences

“Modeling and simulation has come a long way. In the past, running a nanosecond simulation could take weeks or even months to complete. With platforms based on the new Intel® Xeon® processor E5 family, a nanosecond simulation can be completed in just hours rather than days, delivering truly unparalleled performance.”



**Dr. Frank Brown, Chief Science Officer, Accelrys**

“The new Intel® Xeon® processor E5 family-based platform(s) doubles the speed of cellular image analysis.”



**Dr. Martin Daffertshofer, Global Product Manager Software, PerkinElmer Cellular Technologies Germany GmbH**

## Search Engine

“Internal benchmark with Naver Search Engine demonstrates great scalability, performance and system capacity, showing to deliver as much as nearly 2x performance increase. Naver Search Service users can have benefit from Intel® Xeon® Processor E5 family-based platforms”



**Yong-Jae Kwak, Lab. Leader, Search Platform Lab, NHN**

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### Operating System and Virtualization

“With increasing demand for virtualization support, scalability and capacity for data center applications, we’re excited about the launch of the Intel® Xeon® Processor E5-2600 Product Family. Microsoft and Intel have partnered deeply for decades to deliver leading edge technology solutions for customers. The combination of Microsoft Windows Server and Hyper-V software and the Intel Xeon processor E5-2600 product family provides a solid foundation for cloud computing, now and in the future.”



**Mike Schutz, Senior Director, Server and Cloud Division, Microsoft**

“In today’s economic climate, enterprises worldwide must continually innovate in spite of ever-increasing budget pressures. For more than a decade, Red Hat and Intel have collaborated in the open source community to provide the foundation for our customers’ innovation. Red Hat Enterprise Linux 6 with the Intel® Xeon® processor E5 family delivers performance, flexibility, and cost-efficiency to our customers’ applications spanning physical, virtual, and cloud IT environments.”



**Jim Totton, general manager and vice president, Platform Business Unit, Red Hat, Inc.**

“Organizations need data centers that can quickly respond to today’s fiercely competitive business needs in a way that is both dynamic and efficient. With the Intel Xeon processor E5 family and SUSE Linux Enterprise Server 11 Service Pack 2, we offer a new generation of highly capable, yet affordable solutions that deliver maximum performance and open-source software innovation.”



**Michael Miller, vice president of Marketing and Alliances, SUSE.**

“VMware VDI ESXi servers based on the Intel® Xeon® processor E5-2600 product family provide enhanced performance for both high performance computing and graphics processing. These servers represent the most advanced hypervisor architecture and take advantage of the Intel® Advanced Vector Extensions making them fast and efficient.”



**Gary Green, VP Marketing, VMware**