



The Intel® Xeon® Processor 7500 Series: What Software Partners are Saying

Through comprehensive enabling efforts, Intel has worked with the software community so it can take advantage of the new capabilities available in the Intel® Xeon® processor 7500 series. See what leading software vendors have to say about the benefits their customers will derive from this new platform.



"As part of our ongoing commitment to deliver optimized performance on the latest high-performance computing technologies, ANSYS has worked with Intel to make sure our joint customers can leverage the new Intel® Xeon® Processor 7500 Series. This new processor is a great solution for memory-intensive ANSYS® simulations that will scale optimally using the processing power now available within a single machine. For modal analysis of structures, for example, we have worked with Intel to demonstrate a speedup of 3.2 times, comparing a single 4-socket Intel Xeon processor 7560 based server to a single 2-socket Intel Xeon processor 5570 based server. The Intel Xeon Processor 7500 Series is a powerhouse for shared memory 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.



"Autonomy's highly multi-threaded IDOL server demonstrates more than double the performance with linear scalability on the latest multi-core Intel® Xeon® Processor 7500 Series servers compared to the Xeon 5500 Series. This speedup will enable Autonomy customers to significantly accelerate the retrieval and processing of unstructured data including audio and video." - Pete Menell, Chief Technology Officer, Autonomy



"The Intel® Xeon® processor 7560 provides doctors and medical experts with a powerful new engine to enable fast and accurate computation in the field of radiotherapy. Having optimized our software to take advantage of up to 64 threads available on a 4 socket server with Intel® Hyper-Threading Technology enabled, we have been able to attain a performance improvement of up to 1.62 times previous calculation speeds. This enables medical professionals to realize complex dose calculation algorithms in less time and choose the best treatment possibility for their patients while simultaneously facilitating improved clinical efficiency." David Brett, Product Manager Oncology Solutions, BrainLAB



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"The new Intel® Xeon® processor 7500 series demonstrates a high scalability of our products STAR-CCM+ and STAR-CD. These new processors will increase the productivity of our most demanding customers. Both CD-adapco's engineering simulation solutions leverage the higher memory bandwidth and up to 16 threads per socket, resulting in up to 2.2x speedup over their performance on 2 Socket Intel® Xeon® processor 5600 series based platforms." - Jean-Claude Ercolanelli, VP Product Management, CD-adapco



"Our analysis shows the potential for 2-3 times the VM density for production workloads running the the Intel® Xeon® processor 7500 series over the previous generation, drastically reducing footprint and effectively chopping the power consumption in half." - Andrew Hillier, CTO, CiRBA



"With XenApp on the Intel® Xeon® processor 7500 series, we see no barrier whatsoever to running a thousand users per server. A thousand users would formerly have been supported on 20 or more servers. We can replace a rack or more of servers with a single server, which is extraordinarily compelling for our customer in terms of price, performance, and the cost to run Citrix's infrastructure." - Simon Crosby, CTO, Data Center & Cloud, Citrix Systems



"The Intel® Xeon® processor 7500 series with its expandable architecture and up to 1 Terabyte of RAM (in 4-socket systems) shows a big jump in parallel performance for our class of OpenMP based applications. This provides the ability to simulate the production of virtually any oil and gas reservoir on a single server, which was not possible before this platform introduction. Intel has provided excellent support for our parallelization development efforts." - Ken Dedeluk, President & CEO



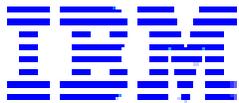
"The Intel® Xeon® processor 7500 series has great performance, stability, scalability and reliability. It fulfills our strict requests for Sm@rTESB products and enables us to better satisfy our end-users." - Xu Xiao, Vice GM of Digital China Research



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"We are pleased to find out our Hundsun stock trade system gains more breakthrough performance and reliability based on Intel® Xeon® processor 7500 series. It can support more concurrent users, and win more TPS with an economical cost. We will be glad to recommend Intel Xeon processor 7500 series widely to our customers." - Fan Jingwu, CTO, Hundsun



"The leadership performance of DB2 on new Intel® Xeon® processor 7500 series based systems is the direct result of the deep collaboration between IBM and Intel. Together, we have achieved up to double the performance of previous generation systems through full and efficient utilization of all available cores, threads, and memory to deliver even more value for our customers." - Berni Schiefer, Distinguished Engineer, Information Management Performance and Benchmarks, IBM

"The new Intel® Xeon® processor 7500 series delivers to our mutual clients a new level of value for their Business Intelligence solutions. In collaboration with Intel, IBM has demonstrated InfoSphere Warehouse scaling linearly up to 10TB of XML data on IBM System Storage DS8700 - with no impact to query response times. This kind of efficient scalability improves the economics of solving complex business problems with IBM analytics solutions on Intel architecture." - Salvatore Vella, VP Development, Database Servers and Data Warehousing, IBM



"The new Intel® Xeon® processor 7500 series is really an important update in server platforms. These new servers improved performance for Kingsoft JX Online III, the next generation online game, by 2.5x over the Intel® Xeon® processor 7400 series. The testing result indicates that Intel Xeon processor 7500 series is certainly one of the most preferable platforms for our online gaming." - Chen FeiZhou, VP, Kingsoft



"Lightworks has been working closely with Intel for many years. As developers of the industry's leading rendering engine, it is important for us to continuously update Lightworks so that it achieves its optimal performance. Intel is an important partner in this development and we have been very encouraged by the recent improvements using Intel® Xeon® Processor 7500 Series and Intel Xeon processor 5600 Series. The Intel Xeon Processor 7500 series delivers the highest performance for large scale models - up to 2.15x speedup compared to the Intel Xeon Processor 5600 Series, which will help customers to visualize results noticeably faster." - David Forrester, Lightworks CEO



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"Benchmarking the Intel® Xeon® Processor 7500 Series based server offers our systems a 112% (2.12x) improvement in comparison to the Intel® Xeon® Processor 5500 Series based server." - Hany Abdelkawi, Project Manager, Link Development

Microsoft®

"The combination of Microsoft's Windows Server 2008 R2 and SQL Server 2008 R2 with the Intel® Xeon® processor 7500 series delivers performance and reliability that was previously only possible on high-priced and power hungry RISC servers and mainframes. Now with the ability to scale up to 256 logical processors, customers can do very complex and demanding tasks with SQL Server 2008 R2 and Windows Server 2008 R2 that may not have been possible before. This combination delivers reliability performance and value to end customers." - Bill Laing, Corporate Vice President, Microsoft Corporation, Windows Server and Cloud Division



"I had a chance to use a 4 socket, 32 core Intel® Xeon® processor 7500 series based system. The large amount of memory available allowed me to do a simulation of a turbulent flow with over 1 billion grid points, something that I could only do five years ago using a supercomputer. Even for larger simulations, the large memory in this platform will enable me to do interactive analysis of large datasets, that will significantly speed up the exploration process necessary in scientific research." - Pablo Mininni, NCAR Scientist

Neusoft

"Neusoft Telecom BSS integrated virtualization technology is a key part of the solution and it is exciting to see the new features of the Intel® Xeon® processor 7500 series help our product to gain performance boost. According to the tests, features such as Intel® HT, Intel® EPT and Intel® Turbo Boost Technology all benefit the performance a lot. It is really a wonderful platform." - Wang Aimin, Vice GM of Neusoft Telecom Division

"The Intel® Xeon® processor 7500 series demonstrates its strong capability in floating point computation and help CT performance get 2.52X compared to the previous Intel® Xeon® processor 7400 series based platform. We can deliver much better digital health solution to our customers with Intel Xeon processor 7500 series ." - Li Shuangxue, GM of Neusoft Medical Systems CT Division

"Performance is critical for telecom applications. Neusoft Telecom BSS with VMware ESX* Server requires high performance servers to perform everyday high stress routines. We are glad to see that the Intel® Xeon® processor 7500 series can provide exciting computing capability to our product. The performance boost of 3.29x versus the Intel® Xeon® processor 7400 series is impressive." - Wang Aimin, Vice GM of Neusoft Telecom Division



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Novell®

"SUSE Linux Enterprise 11 is highly tuned for scalable performance on the Intel® Xeon® processor 7500 series. The operating system supports clusters with up to 2,048 cores, for excellent throughput on very large workloads. SUSE Linux Enterprise and the Intel Xeon processor 7500 series are a very cost-effective option for mission-critical computing. The platform introduces a range of reliability features to recover smoothly from processor or memory failures. We expect to see fast adoption as an alternative to expensive proprietary platforms." - Carlos Montero-Luque, VP, Business & Product Management, Open Platform Solutions (Linux), Novell

ORACLE®

"Oracle has been collaborating with Intel for almost 20 years. We've worked very hard to make the Oracle database run extremely efficiently on the Intel platform, and Intel has worked very hard to make Intel a great platform for Oracle. With the new Xeon processors, we expect customers to be able to run bigger databases, with better response times, while paying less." - Juan Loaiza, Oracle Senior Vice President, Systems Technology

Paradigm®

"By optimizing Paradigm™ GeoDepth® code with Intel software development tools including Intel® MKL library and implementing an application architecture that scales with the Intel Micro architecture, we are seeing excellent results on the next generation of Intel® Xeon® processors. This enables our customers to significantly reduce the time to solution for the imaging steps of a full wave migration workflow." - Duane Dopkin, Paradigm Senior Vice President, Technology

For the most demanding workloads, the Intel® Xeon® processor 7500 series in a 4 socket configuration demonstrates up to 2.96x speedup compared to a 2 socket Intel® Xeon® processor 5500 series based server.

PERVASIVE®

"We've achieved astounding throughput on big data, approaching nearly two terabytes an hour, with our highly parallel Pervasive DataRush platform on a 32-core Intel® Xeon® processor 7500 series based server. Together, Intel's and Pervasive's innovative technologies deliver the power to successfully tackle massive data challenges on a compact footprint and deliver transformative results." - Jim Falgout, Pervasive DataRush Chief Architect



"The new 8-core (per CPU) Intel® Xeon® processor 7500 series based servers offers the state of the art in CPU platform design and 45nm process technology. Real Image's QubeMaster Pro obtains a 1.5X FPS improvement on an 8-core Intel® Xeon® processor 7500 (2.27GHz) based 2 socket server with HT turned on, over a quad-core Intel® Xeon® processor 5500 (2.93 GHz) based 2 socket server." - Senthil Kumar, Founder CEO, Real Image



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"Intel® Xeon® processor 7500 series features like Machine Check Architecture Recovery aim to break new ground for mission-critical reliability. Red Hat Enterprise Linux has a well-deserved reputation for reliability, availability, serviceability, scalability and performance and is designed to take advantage of these new capabilities. We believe that the combination of Red Hat and Intel are a game-changer for mission-critical computing." – Paul Cormier, Executive Vice President and President, Products and Technologies at Red Hat



"The new levels of reliability and performance delivered by the Intel® Xeon® processor 7500 series are impressive. We expect customers to benefit from the strong foundation provided by the Intel Xeon processor 7500 series when used together with innovative SAP enterprise solutions." – Vishal Sikka, member of the Executive Board of SAP AG



"For more than fifteen years, the SAS and Intel Advanced Research Center has enabled customers to optimize performance and maintain their competitive edge. Because SAS 9.2 is fully optimized for Intel, customers can take full advantage of the scalable performance and advanced reliability offered in the Intel Xeon® 7500® processor series." – Paul Kent, SAS Vice President of Platform Research and Development.



"ECLIPSE FrontSim, an industry leading 3D simulator that models multiphase fluid flow along streamlines, is experiencing amazing scalability of 21x from 1 to 24 cores on a single node with the new Intel® Xeon® Processor X7542. Through the continued collaboration with Intel and the use of their industry leading software tools, we optimize our software's ability to scale performance. As a result, our Oil and Gas customers can understand fluid flow and geological influences on reservoirs significantly sooner, allowing them to consider more and more complex reservoir scenarios faster and with higher accuracy, increasing efficiency in reservoir development." – Jim Brady, Vice President of Technology, Schlumberger SIS



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"The Intel® Xeon® processor 7500 series provides users with a flexible system that can handle a range of workloads effectively. In particular, this processor is ideally suited for running realistic simulations that require a large amount of memory, but cannot be readily executed on distributed memory systems. Using the Abaqus/AMS eigensolver on a full vehicle Noise and Vibration model, the Intel Xeon 7500 was 1.9x faster than the prior generation Intel Xeon 7400." - Matt Dunbar, Chief Architect, SIMULIA

SUNGARD®

"SunGard's developers worked with Intel to optimize SunGard's Ambit Reconciliation solution running on high-performing Intel® Xeon® processor 5600 series servers on the application tier and Intel® Xeon® processor 7500 series servers with Intel's Solid State Drives on the data tier. As a result, the time to process 50 million transactions was dramatically reduced from 16+ hours to 25 minutes!

These results enable our customers to easily address industry trends like increasing trade volumes and help define a competitive advantage in these challenging times." - Don Tyson, Chief Technology Officer, SunGard's Ambit, Corporate Banking.

"Reconciliation of transactions has become one of the most critical operations in financial institutions today and is essential to the success of any organization. Recently, Intel and SunGard achieved a 53% increase in performance as compared to previous benchmarks with SunGard's Ambit Reconciliation solution running on high-performing Intel® Xeon® 7500 series servers with Intel Solid State Drives.

These performance enhancements provide customers with improved scalability for real-time matching and reconciliation including integrated exception processing across the enterprise. This helps lower operational cost and operational risk through complete transaction lifecycle management." - Don Tyson, Chief Technology Officer, SunGard's Ambit Corporate Banking.

"Using Intel® Xeon® 7500 series servers, Front Arena is able to process risk calculations 1.7 times faster than the previous generation of Intel® Xeon® 7400 series servers, helping it to deliver more timely insight and lower total cost of ownership to our customers." - Nils Undén, Chief Technology Officer, Front Arena, SunGard



"The Intel® Xeon® Processor 7500 series has demonstrated a substantial performance throughput when compared to the previous generation Intel Xeon MP processors. On Synopsys' highly scalable Proteus Computational Lithography engine, which analyzes and modifies full chip design databases using the OPC application prior to manufacturing, the Intel Xeon 7500 series outperforms the Intel Xeon 7400 series by a factor of up to 2.68X in throughput. By leveraging such advances in Intel CPU performance from generation to generation, Proteus users are able to keep the cost of transition to newer technology nodes low by avoiding expensive custom hardware solutions." - Dr. Howard Ko, Sr. VP & GM, Silicon Engineering Group, Synopsys, Inc.



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THOMSON REUTERS

"Industry-standard servers (X86) are now the de facto future platform for many banks, from global institutions to small banks in emerging markets, based on their high performance, low latency, reduced capex and opex costs, and energy efficiency. Initial tests with Intel's four socket Intel® Xeon® processor 7500 series systems have demonstrated a performance improvement by a factor of three, compared with the two socket Intel® Xeon® processor 5500 series systems. Those tests have also confirmed that Intel can deliver a significantly lower Total Cost of Ownership model compared with more expensive systems based on RISC processor architectures." - Jim Saunders, Global Head of TRM (Trading and Risk Management) Product Development.

UFIDA 用友

"Taking advantage of Intel's latest Intel® Xeon® Processor 7500 Series, NC ERP application showed impressively great performance boost compared with previous platform. The result can fully satisfy the strict needs of NC performance for their mid or large-scale enterprise customers, thus can provide the suitable solution with higher performance/price ratio compared with mainframe solution." - Hans Lin, Technical Director of UFIDA ERP-NC Department

"It's really amazing for UFIDA WECO Cloud to get 2.83x performance boost and 3.03 performance per watt boost on the Intel® Xeon® Processor 7500 Series. As a SaaS, It's really important to enhance our system ability. The amazing results show that the new Intel® Xeon® Processor 7500 Series is certainly one of the most preferable platforms for our product and high performance will certainly impress our customers greatly." - Chen Shuichao, Online R&D Director, UFIDA

vmware®

"VMware and Intel solutions comprise an ideal platform for cloud computing. Intel® Xeon® processor 7500 series offers increased performance and reliability. The combination of this new processor family and VMware vSphere™ reduces operational costs and brings higher levels of security and availability to large, business-critical applications running in virtualized environments. VMware remains committed to working closely with Intel to help our customers maximize their IT investments through cloud computing." - Dr. Stephen Herrod, CTO and senior vice president of R&D, VMware



"Intel's latest multi processor / multi-core PC platforms enable VGStudio MAX 2.1 users to perform quality control tasks that have not been cost-effective or not even possible before. The CT reconstruction and processing of data sets like these in the past required a super computer or at least a PC cluster. Today, a dual six-core CPU workstation or 4 CPU Intel® Xeon® Processor 7500 Series system with 32 cores, 64 threads and up to 1 TB of RAM will do the job underneath your desk! Having this computing power available on the desktop for a broader group of users will open up new applications for our customers and markets for Volume Graphics." - Christof Reinhart, CEO of Volume Graphics