



Driving improvements

VAZSYSTEM increases server performance by 30 percent for critical reports with Intel® Xeon® processors E7 v2 family



“The best thing about the new generation of Intel® Xeon® processors is their price/performance ratio, which exceeds that of the previous generation. The advanced reliability, availability and serviceability features (Intel® Run Sure Technology) will also enable us to meet our SLA commitments more easily.”

Vladimir Bulov,
CEO, VAZSYSTEM

Company

VAZSYSTEM is a 100 percent subsidiary of AvtoVAZ, the largest Russian automotive manufacturer, which is known worldwide for its brand name Lada*. VAZSYSTEM provides IT and IT integration services to other companies in the AvtoVAZ group. VAZSYSTEM depends on those IT systems for business planning and for preparing mandatory reports to strict deadlines, such as for taxation purposes.

Challenge

VAZSYSTEM hosts the 1C* enterprise resource planning (ERP) system for some of its clients in a virtualized server environment. Tasks include massive database calculations and report preparation, based on between 15 and 100GB of accounting, stock, or technological data. These tasks can take up to six hours to complete and slow down other current tasks.

Solution

VAZSYSTEM was already using virtualized servers based on the Intel® Xeon® processor E7 family and ran a proof of concept to test the improvement with the Intel Xeon processor E7 v2 family using CentOS Linux. “For us, one of the most important features of the new Intel Xeon processor is its massive support for virtualization with Intel® Virtualization Technology¹,” said Vladimir Bulov, CEO of VAZSYSTEM. “It enables us to optimize our operational environment to achieve maximum performance.”

Benefits

For the most critical and time-consuming operations, servers based on the Intel Xeon processor E7 v2 family delivered 30 percent faster performance² in the pilot compared to the previous-generation server, enabling the company to deliver reports up to three hours faster than before according to VAZSYSTEM's own research. The new server offers up to 6TB of RAM with a four-socket configuration, enabling VAZSYSTEM to place multiple virtual machines on a single physical server. “We can more effectively use data center space and be more energy efficient while meeting our SLAs,” said Bulov.

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¹ Intel® Virtualization Technology requires a computer system with an enabled Intel® processor, BIOS, and virtual machine monitor (VMM). Functionality, performance, or other benefits will vary depending on hardware and software configurations. Software applications may not be compatible with all operating systems. Consult your system manufacturer. For more information, visit <http://www.intel.com/go/virtualization>.

² 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. For more information go to <http://www.intel.com/performance>

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