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ESI is the pioneer and world-leading solution provider in virtual prototyping.

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ESI Group announces new release of VA One

Latest release of noise and vibration simulation software includes significant performance enhancements

Paris, France – 22 December, 2011 – **ESI Group**, pioneer and world-leading solution provider in virtual prototyping for manufacturing industries, announces the latest release of **VA One**. VA One is a complete solution for simulating noise and vibration across the full frequency range, which seamlessly combines Finite Elements, Boundary Elements, and Statistical Energy Analysis (SEA) in a single model. This new release includes significant performance and productivity improvements, along with new functionality for full spectrum modeling of acoustic ducts.

Performance enhancements

The SEA and Hybrid modules of **VA One** have been optimized to make increased use of the multi-threading capabilities of multi-core desktop machines. Speedups of up to 4.5x have been observed for processing simulations on certain models running on quad-core desktop machines, when compared with previous versions of the software. The speedups were made possible because of the modern software architecture of **VA One**, and through the use of the latest Intel tools for software development.

“Intel® Parallel Studio XE 2011 is a comprehensive tool suite that provides an innovative threading assistant, compiler and libraries, memory threading error checker, and threading performance profiler,” said **James Reinders**, Director at Intel. *“We are pleased to have collaborated with ESI Group on the performance enhancements in VA One 2011 and their utilization of Intel® Parallel Studio XE 2011.”*

Productivity enhancements

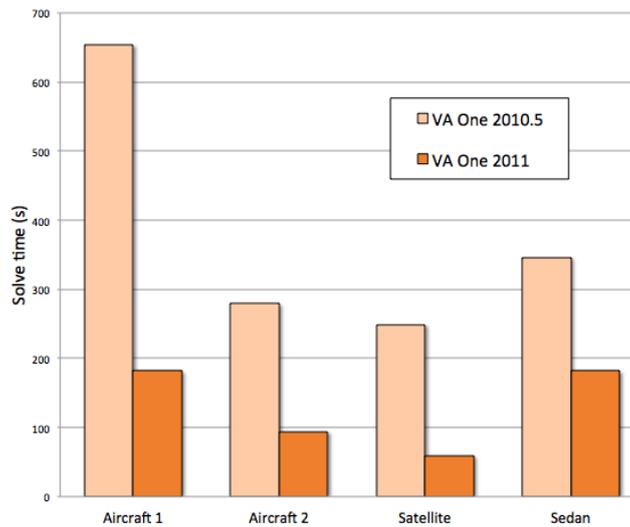
The latest **VA One** release includes a large number of productivity enhancements, including new methods for quickly editing and updating the attributes of multiple objects in a model. This reduces model building time and provides more time for solving noise and vibration problems.

Modeling noise in ducts across a broad frequency range

The noise transmitted by duct networks is important in many applications. The new **VA One release** includes a unique functionality for quickly modeling the transmission loss of complex ducts with arbitrary cross-section, both above and below the plane-wave cut-on frequency.



“We are pleased to announce the release of VA One 2011,” said Dr. **Phil Shorter**, Director of Vibro-Acoustic Product Operations at ESI Group. “The performance enhancements in this release will benefit all VA One users and were obtained through the use of a modern software architecture and close collaboration with Intel.”



Improvements in solve time in the latest release of VA One, compared with the previous version.

For more information, please visit: www.esi-group.com/VAOne

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About ESI Group

ESI is a pioneer and world-leading solution provider in virtual prototyping for manufacturing industries that takes into account the physics of materials. ESI has developed an extensive suite of coherent, industry-oriented applications to realistically simulate a product's behavior during testing, to fine-tune manufacturing processes in accordance with desired product performance, and to evaluate the environment's impact on performance. ESI's solutions fit into a single collaborative and open environment for End-to-End Virtual Prototyping, thus eliminating the need for physical prototypes during product development. The company employs about 850 high-level specialists worldwide covering more than 30 countries. [ESI Group](http://www.esi-group.com) is listed in compartment C of NYSE Euronext Paris. For further information, visit www.esi-group.com.

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