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**Paradigm Maximizes SKUA Performance on Intel Platforms**

*Integration of optimized linear algebra routines from Intel's MKL library will dramatically reduce the computation time of the matrix inversion step in building SKUA models.*

**(NEW ORLEANS: April 12, 2010)** Paradigm™ ([www.pdgm.com](http://www.pdgm.com)), a leading provider of enterprise software solutions to the global oil and natural gas exploration and production (E&P) industry, announced today the result of its technological collaboration with Intel® Corporation. The two companies jointly worked on the integration of the optimized linear algebra routines from Intel® MKL into the latest version of Paradigm™ SKUA® 2009, enabling the software to take full advantage of the Intel multi-core processor architecture. This resulted in optimizing the computation time of the matrix inversion step used inside the construction of a SKUA model by a factor of up to 50 times. The announcement was made at the [2010 American Association of Petroleum Geologists \(AAPG\) Annual Convention and Exhibition](#) in New Orleans.

"The computation of the SKUA UVT transform relies on solving a large system of equations representing geological constraints given by the users," said Jean-Claude Dulac, Paradigm executive vice president, science and technology. "Thanks to Intel's scientific libraries optimized for Intel processors we have a solution that will allow our customers to work with the highest degree of efficiency, maximizing their return on new multi-core equipment investments."

Furthermore, collaboration with Intel enabled Paradigm to benchmark the Intel X25E Solid State Disk versus a traditional Hard Disk Drive for Out-Of-Core models. It reveals that Solid State Disk usage increases the speed by an additional 1.4x factor in overall computing time.

These two combined speedups enhance the performance of SKUA 2009 by nearly two orders of magnitude, allowing customers to work on higher resolution models that produce a more accurate structural and stratigraphic representation of the subsurface.

"Working together, Paradigm and Intel were able to unleash the Intel® Xeon® processor 5000 sequence based platform, solid state disk and software technologies, and deliver substantial performance improvement for seismic data interpretation and structural modeling," said Andrey Semin, HPC Technology Manager, Intel Software and Services Group. "This improvement will have long-term benefits for exploration and production, and the cooperation between Intel and Paradigm demonstrates our ability to solve customers' challenges with state-of-the art platform and software technologies".

For more information on Paradigm products and services, please visit [www.pdgm.com](http://www.pdgm.com), or e-mail [info@pdgm.com](mailto:info@pdgm.com).

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Paradigm Ltd. ([www.pdgm.com](http://www.pdgm.com)) is an industry leader in digital subsurface asset management, serving oil and gas companies worldwide. Paradigm technology solutions for seismic processing and imaging, interpretation and modeling, reservoir characterization and petrophysics, and well

planning and drilling operate in an open environment to accelerate results. Paradigm has a global network of sales, consulting and support.

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