

PGI 2014 Brings New Level of Performance, Programming Simplicity to High Performance Computing

New Release Adds OpenACC 2.0 Features for NVIDIA and AMD GPU Accelerators, Delivers Multi-core x64 Performance Gains

SANTA CLARA, CA -- PGI, a leading suite of high-performance parallelizing compilers and development tools, now features support for the latest version of the [OpenACC programming standard](#) on accelerator platforms.

Available today, PGI® 2014 Compilers and Tools includes new capabilities for programming the recently announced [NVIDIA® Tesla® K40 GPU accelerators](#) using version 2.0 features of the OpenACC directives-based parallel programming specification. It also provides, for the first time, OpenACC support for AMD Radeon GPUs and APUs.

"We applaud PGI's ability to extract performance from AMD discrete GPUs and APUs using OpenACC," said Suresh Gopalakrishnan, corporate vice president and general manager of the Server business at AMD. "It will help break down the remaining barriers to wide-scale accelerator adoption, and decouple the choice of accelerator programming model from the choice of accelerator hardware."

Key features of PGI 2014 Compilers and Tools include:

- OpenACC 2.0 Features - PGI Accelerator native Fortran 2003, C99 and C++ compilers expand support for key OpenACC 2.0 features, including routine directive (procedure calls in accelerator regions), unstructured data lifetimes and others.
- New NVIDIA® CUDA® Fortran Extensions - Add support for version 5.5 of the [NVIDIA CUDA parallel programming platform](#), CUDA atomic functions and device-side debugging using Alinea DTT and TotalView from Rogue Wave.
- Free [PGI for OS X](#) - Fortran 2003 and C99 compilers with all PGI multi-core x64 optimizations, command-line debugging and streamlined online documentation (available in February).

PGI 2014 compilers deliver an average of 75 percent faster performance on the [latest SPEC® OMP2012 benchmark suite](#), compared to GCC using the latest AVX-enabled multi-core Intel and AMD x64 processors. Additional capabilities of PGI 2014 Compilers and Tools include full Fortran 2003 support, incremental Fortran 2008 features, updated libraries, support for the latest operating systems and a comprehensive suite of new and updated code examples and tutorials.

For a complete list of the features and capabilities of PGI 2014 Compilers and Tools, visit http://www.pgroup.com/support/new_rel.htm.

"The use of accelerators in high performance computing is now mainstream," said Douglas Miles, director of PGI Software at NVIDIA. "With PGI 2014, we are taking another big step toward our goal of providing platform-independent, multi-core and accelerator programming tools that deliver outstanding performance on multiple platforms without the need for extensive, device-specific tuning."

PGI 2014 is available today directly from NVIDIA and authorized resellers. A free 30-day trial of PGI 2014 is available for new users at www.pgroup.com. Registration is required.

About PGI Software

An NVIDIA Corporation brand, PGI Software includes high-performance parallel Fortran, C and C++ compilers and tools for workstations, servers and clusters based on x64 processors from Intel and AMD, and HPC accelerators from NVIDIA and AMD. More information is available at www.pgroup.com, sales@pgroup.com or by calling (503) 682-2806.

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