

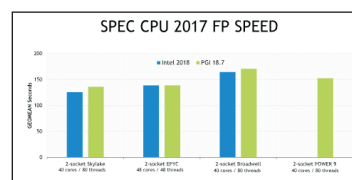
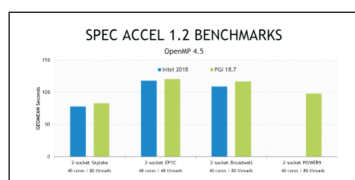
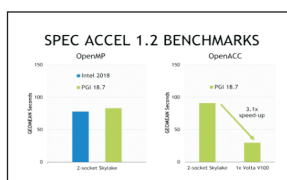
We are pleased to introduce products from The Portland Group Inc, U.S.A. The Portland Group is a premier supplier of software compilers and tools for parallel computing, known as PGI® products.

PGI Community Edition: PGI Community Edition includes a no-cost license to a recent release of the PGI Fortran, C and C++ compilers and tools for multicore CPUs and NVIDIA Tesla GPUs, including all OpenACC, OpenMP and CUDA Fortran features. The PGI Community Edition enables development of performance-portable HPC applications with uniform source code across the most widely used parallel processors and systems.

PGI Professional Edition: PGI Professional Edition is a perpetual license to current and all previous releases of the PGI Fortran, C and C++ compilers and tools for multicore CPUs and NVIDIA Tesla GPUs, including all OpenACC, OpenMP and CUDA Fortran features. Enables development of performance-portable HPC applications with uniform source code across the most widely used parallel processors and systems.

PGI 2018 Key Features:

- ☞ Accelerate Your HPC Applications with Tesla V100 GPUs
- ☞ PGI in the Cloud
- ☞ PGI Auto-compare for OpenACC
- ☞ OpenACC Deep Copy Directives
- ☞ LLVM/x86-64 Performance
- ☞ Support for the Latest CPUs
- ☞ Full OpenACC 2.6
- ☞ OpenACC for CUDA Unified Memory
- ☞ OpenMP 4.5 for Multicore CPUs
- ☞ New C++17 Features
- ☞ AVX-512 Support
- ☞ PGI Unified Binary for Tesla & Multicore
- ☞ Enhanced Profiling Features



What's New in 18.7

- ☞ **All Compilers:** The LLVM-based code generator for Linux/x86-64 and Linux/OpenPOWER platforms is now based on LLVM 6.0. On Linux/x86-64 targets where it remains optional performance of generated executables using the LLVM-based code generator average 15% faster than the default PGI code generator on several important benchmarks.
- ☞ **Fortran:** Implemented Fortran 2008 SUBMODULE support. A submodule is a program unit that extends a module or another submodule.
- ☞ **OpenACC and CUDA Fortran:** Added support for an implementation of the draft OpenACC 3.0 true deep copy directives for aggregate data structures in Fortran, C and C++.
- ☞ **OpenMP:** Improved the efficiency of code generated for OpenMP 4.5 combined "distribute parallel" loop constructs that include a collapse clause, resulting in improved performance on a number of applications and benchmarks.

Please visit: <https://gte-india.com/high-performance-computing/pgi/>

For more information, please contact:

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