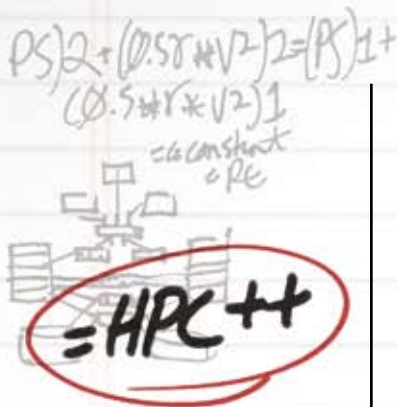


LY PRODUCTIVE HIGH PERFORMANCE COMPUTING



PGI®

PARTNER PROFILE

The Portland Group, or PGI, is the maker of world-class compiler and tools for workstations, servers and clusters. PGI strives for efficiency and usability, making them one of the highest performers in the industry. PGI is the compiler-of-choice and 64-bit performance leader for many widely-used research applications in the areas of geophysical modeling, mechanical engineering, non-linear dynamics, computational chemistry and high-energy physics.

PGI® HIGH PERFORMANCE COMPILERS FOR MICROSOFT® WINDOWS® HPC SERVER 2008

PGI® parallel compilers and tools for Windows HPC Server 2008 harness the full power of today's high-performance parallel workstations, servers and clusters based on 64-bit multi-core x64 processors for science and engineering applications.

SITUATION

To continue developing high-performance models in the science and engineering fields, industries require high-performance computing (HPC) solutions that will increase speed and reduce turnaround time for complex computations. With the move to HPC computing, there is a growing need for a complete set of cluster-capable development tools in a productive, high-performance environment.

SOLUTION

The Portland Group offers products for developing applications that can take advantage of the high speed capabilities and efficient work environment of Microsoft® Windows® HPC Server 2008. Each product includes PGI's compilers, debugger and performance profiler. PGI products are available in three different configurations so developers can choose what works best for their work environment.

PGI WORKSTATION™

The PGI Workstation compilers, along with the OpenMP and MPI graphical debugger PGDBG® and PGPROF® graphical performance profiler allow a single user to compile, debug, and profile on the workstation on which the PGI compilers are installed. Also available in multi-seat network floating license configuration (PGI Server).

PGI CDK™

In combination with the Windows HPC Server 2008 operating systems, the PGI CDK® Cluster Development Kit® provides HPC developers with the tools necessary to profile, port, and debug complex distribution applications on networked clusters of x64 processor-based workstations and servers.

PGI VISUAL FORTRAN™

PGI Visual Fortran® (PVF®) brings the PGI suite of high-performance 64-bit and 32-bit parallel Fortran compilers to Microsoft® Windows® developers using Microsoft Visual Studio®.

PGI COMPILERS

PGI® parallel compilers and tools for Windows HPC Server 2008 harness the full power of today's high-performance parallel workstations, servers, and clusters based on 64-bit multi-core x64 processors from AMD and Intel for science and engineering applications. PGI's industry-leading performance, reliability, native auto-threading and OpenMP support, and parallel-capable graphical debugging and profiling tools provide a complete programming environment for scientists and engineers.

PGI's standard-compliant Fortran compilers provide the features, quality, and reliability required for developing and maintaining advanced scientific and technical applications. Vectorization, interprocedural analysis, profile feedback, and target-specific optimizations for both AMD and Intel processors deliver consistently high performance across all x64 systems. The PGI Unified Binary™ technology streamlines cross-platform support by enabling a single executable file to contain code optimized for both x64 processor families. Auto-parallelization and OpenMP user-directed parallel programming extensions deliver the full capabilities of today's multi-processor technical workstations, servers, and clusters.

PGCC is an ANSI C99 compiler designed to extract maximum performance from compute-intensive, floating-point array-based applications. PGCC includes VAX/VMS and all K&R extensions and supports the ANSI C99 standard. All C++ functions are compatible with Fortran and C functions, so you can compose programs from components written in all three languages.



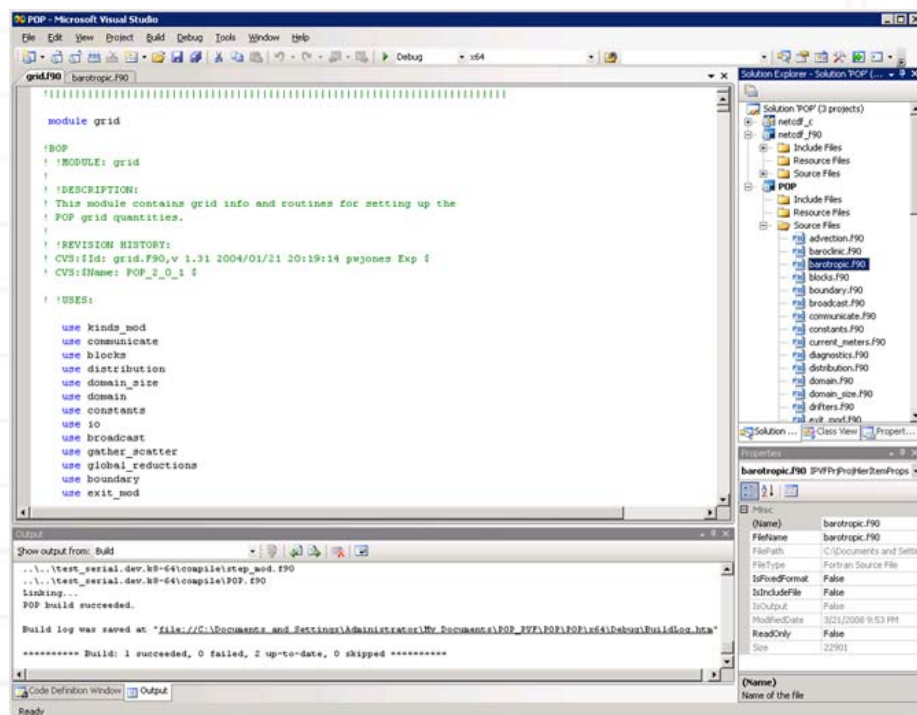
WINDOWS HPC SERVER 2008 WORKING TOGETHER BENEFITS

Windows HPC Server 2008 brings the value of an integrated HPC solution and a productive development environment to customers for whom HPC has been out of reach in the past. Windows HPC Server 2008 helps enable organizations to:

- Improve productivity of systems administration and cluster interoperability by dramatically simplifying the overall deployment, administration, and management over the entire system lifetime, while helping ensure interoperability with existing systems infrastructure.
- Rapidly develop HPC applications using Visual Studio® 2008, which provides a comprehensive parallel programming environment. In addition to supporting standard interfaces such as OpenMP, Message Passing Interface (MPI) and Web services, Windows HPC Server 2008 also supports third-party numerical library providers, performance optimizers, compilers, and debugging toolkits, including those created by PGI.
- Seamlessly scale from workstation to cluster by allowing end users to harness the power of distributed computing through a familiar Windows-based desktop environment without requiring specialized skills or training.

Windows HPC Server 2008 and The Portland Group work together to provide easy, cost effective solutions that will help increase productivity and efficiency to scientific and engineering companies. Leading the industry with customized products for development, PGI takes advantage of all that Windows HPC has to offer for effective cluster computing, including the MSMPI message-passing interface library, a job scheduler to manage cluster throughput, and a simple, intuitive means for launching and monitoring compute jobs on a cluster.

- Effectively port, debug, and tune high-performance Fortran, C, and C++ applications on Windows HPC Server 2008 with PGI compilers and tools.
- Port computationally intensive science and engineering applications seamlessly within Microsoft Visual Studio using PGI Visual Fortran.
- Debug distributed applications on a Windows HPC Server 2008 using PGI's OpenMP and MPI parallel debugger.
- Maximize performance from compute-intensive applications with state-of-the-art PGI compilers.



PGI Visual Fortran and Visual Studio 2008

FURTHER INFORMATION

For more information about Windows HPC Server 2008 and HPC, please visit <http://www.microsoft.com/hpc>

For more information about The Portland Group, please visit <http://www.pgroup.com>