

The DICE Program uses Portland Group Compilers for Parallel File System Comparison Project

By Avetec - DICE Program

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Avetec's Data Intensive Computing Environment (DICE) program enjoys continued success using compilers from the Portland Group (PGI) in a parallel file system comparison project.

Avetec's Data Intensive Computing Environment (DICE) program is announcing their continued success using compilers from the Portland Group (PGI), an independent supplier of high-performance scalar and parallel compilers and tools for workstations, servers, and high-performance computing systems. For over two years, Avetec has partnered with the Portland Group to evaluate and use the PGI Compiler Suite.

"Our relationship with the Portland Group has advanced our development in a number of projects, particularly in our parallel file system comparison project, which has the potential to make a significant impact on high performance computing (HPC) data centers," said Al Stutz, Avetec's Chief Informational Officer and co-leader of the DICE program.

Throughout the partnership between the two organizations, the DICE program has found success using the PGI Compiler Suite in evaluating vendor products and developing robust parallel software. Most recently, the suite has played a key role in the execution of a project to develop a comprehensive benchmarking framework for evaluating file systems. This framework will allow data centers to select the correct file system to meet their users' requirements and properly adjust settings for optimal performance.

"We compiled Flash and IOR on Avetec's cluster using the PGI Fortran and C compilers," said DICE Senior Level Systems Administrator Paul Buerger. "The performance obtained using these compilers was essential to the success of this project."

The DICE program is administered by Avetec, Inc., a non-profit public benefit research organization that uses virtual testing environments to help solve complex problems, such as those in aerospace engineering.

Avetec's high-performance HPC Research Division – the Data Intensive Computing Environment – is a geographically dispersed test environment that conducts technology testing and validation for new and emerging HPC data management solutions. The DICE team works with the HPC industry, data centers (government and industry) and the research community to evaluate new and emerging products and technology that enhance research computing data and results throughput.

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Avetec's Data Intensive Computing Environment (DICE) program independently evaluates hardware and software solutions for enterprise and government with the goal of helping organizations save critical resources and time.

Category	Computers, Research, Technology
Tags	Avetec, dice, Data intensive computing environment, pgi, Portland Group, compiler, benchmark, parallel file system, pfs
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