



SPECviewperf® 12 Benchmark Overview

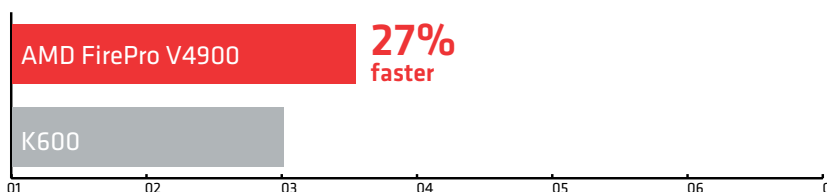
SPECgpc have released SPECviewperf® 12, an all-new version of the worldwide standard for measuring graphics performance on systems running under the OpenGL™ and DirectX® application programming interfaces.

SPECviewperf® 12 is designed specifically to stress workstation graphics cards and assess performance of the latest animation, design, 3D modeling and engineering applications. AMD FirePro™ delivers leading performance across the entire product stack.

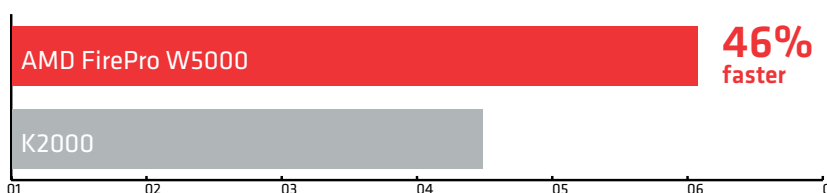
SPECviewperf® 12 for SolidWorks 2013



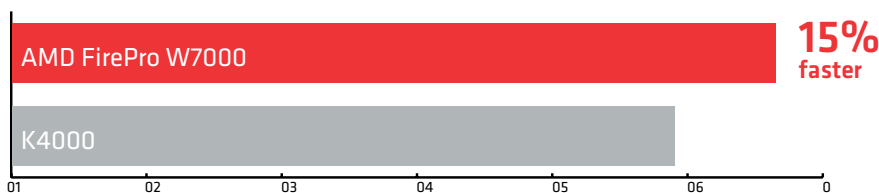
Entry level



Mid-range



High-end



System Config: Intel E5-1660 3.30GHz, 16GB RAM, Win7 64-bit SP1, AMD 13.152.4, 13.25.18.1 Nvidia 331.65, 331.82

What's new in SPECviewperf 12?

After SPECviewperf 11, the benchmark was re-architected to decouple the actual tests and data from the test framework. The new viewsets (individual tests) included in SPECviewperf 12 are designed to do a much better job of replicating the real-world experience of running applications on professional graphics cards and takes advantage of the latest GPU APIs such as OpenGL 4.0 and DirectX® 11.

This new design provides some major benefits

1. It allows for viewsets to be submitted individually. SPECviewperf 11 was created by a single member of the SPEC committee with little ability for other committee members to contribute or review the benchmark dataset source or raw trace data. SPECviewperf 12 consists of viewsets submitted from several committee members, each submitting full source code for the tests that can be easily reviewed by all committee members.
2. SPECviewperf 12 traces are taken from the latest versions of the applications. SPECviewperf 11 was released in 2010, with software vendors commonly releasing update versions on an annual basis. SPECviewperf 11 traces are three or more versions behind the currently shipping versions of those applications.

These benefits result in a more accurate and reliable representation of GPU performance, shifting the benchmarks previously set by SPECviewperf11. Using SPECviewperf12 it is clear that AMD FirePro graphics perform favourably with the latest applications, significantly outperforming competitors in the majority of tests.

Push Designs to the Limit

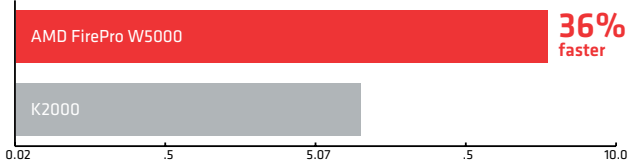
The latest AMD FirePro graphics cards were designed for advanced SolidWorks® workflows and simultaneous engineering in mind, combining complex CAD modeling with sophisticated rendering and simulation (CAE). The graphics card driver is thoroughly tested, optimised and certified for SolidWorks 2013 and 2014. It also features a number of SolidWorks-specific optimizations to ensure designers and engineers get the most out of their workstation. With the latest AMD FirePro driver available today, experience up to 3x graphics performance increase in SolidWorks® 2013 when using the new AMD FirePro™ W-series graphics cards.



More Accurate Designs with New GPU-Accelerated Transparency Mode

Order Independent Transparency (OIT) is now available for SolidWorks 2014. OIT provides a “pixel-accurate” representation of the model and its surrounding geometry and runs much faster than the traditional blended mode because it is accelerated by the AMD FirePro GPU. This creates a more practical transparent 3D viewpoint for designers to continuously work within, helping improve the user’s sense of “design intuition” and aid in better decision-making throughout the product development stages.

SolidWorks 2014 SP1 - Ambient Occlusion Composite



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SolidWorks & AMD FirePro recommended configurations

	Model Size and complexity	Visualisation	Simulation
AMD FIREPRO W7000	● ● ●	● ● ●	● ● ●
AMD FIREPRO W5000	● ● ●	● ● ○	● ● ○
AMD FIREPRO V4900	● ○ ○	● ○ ○	● ○ ○

SolidWorks in the cloud with AMD FirePro R5000 Remote Graphics

Tested & certified for SolidWorks & CAMWorks, access your models through the internet Safely and securely anywhere you may be

A powerful professional graphics solution with 2GB of GDDR5 memory and reliable & secure PCoIP protocol via Teradici technology - all on a single graphics card.

The AMD FirePro R5000 graphics card can also be used within a local workstation solution, effectively turning it into a remote workstation so you can access your models anywhere in the world.



in.amdfireprohub.com/software/solidworks/