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Quantum3D and SYSGO Team to Develop FidelityVCF COTS Realtime Embedded Visual Computing Framework

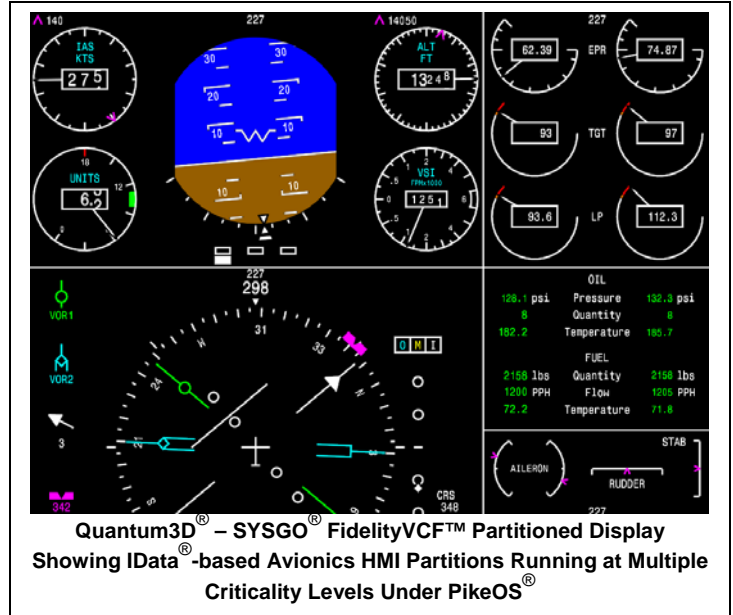
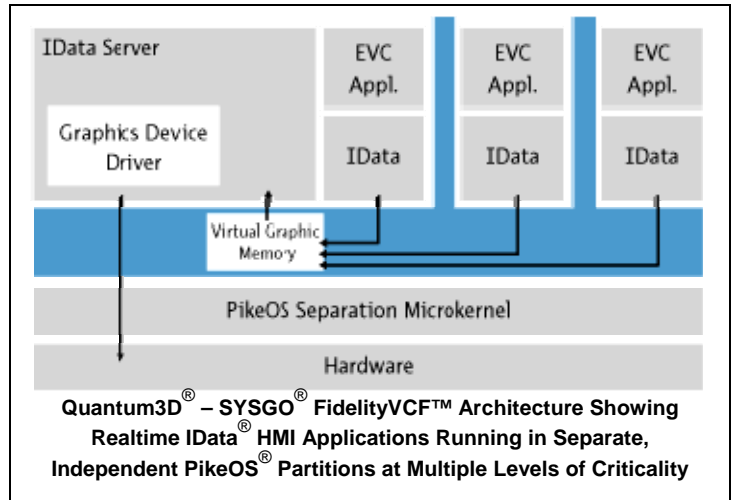
Collaborative Effort Combines Quantum3D IData with SYSGO PikeOS to Provide Industry-Leading Visual Computing Framework for Commercial, DO-178B Level-A and ARINC-653 Safety-Critical Realtime Applications

SAN JOSE, CA, Embedded Systems Conference

Silicon Valley – April 2, 2007—Quantum3D®, Inc., a leading provider of Commercial Off-the-Shelf (COTS), open-architecture, realtime visual computing solutions, and SYSGO®, a global supplier of highly reliable device software, today announced that the two companies have teamed to develop FidelityVCF™—the industry’s first COTS tightly integrated, advanced realtime embedded visual computing development and deployment software for the Safety-Critical market.

The FidelityVCF effort combines SYSGO’s PikeOS® realtime operating system with Quantum3D’s IData® Human Machine Interface (HMI) embedded visual computing software toolkits to provide the industry’ most advanced and comprehensive solution for a broad spectrum of safety-critical commercial, military, industrial and FAA DO-178B Level-A- and ARINC-653-based avionics, vehicle electronics, medical and other advanced realtime embedded visual computing initiatives.

Today’s embedded development projects often have short schedules and reduced budgets, which means system integrators have very little time to integrate multiple system software components from multiple vendors and then tune them to meet program-specific performance and functional objectives, especially if FAA certification is required. By working closely to integrate their respective products into the FidelityVCF, SYSGO and Quantum3D can provide system integrators with a tightly coupled COTS solution that meets realtime visual computing requirements that demand state-of-the-art RTOS operating environments and regulatory certification. The companies are also collaborating to ensure that their respective products provide a tightly coupled solution for Linux applications by integrating IData with ElinOS®,



SYSGO's award-winning Industrial Grade Linux. Because Quantum3D is also a leading Embedded Visual Computing (EVC) system and subsystem hardware supplier, the companies can provide a turnkey application deployment solution that is ideal for hosting PikeOS- or ElinOS-based visual computing applications that employ IData HMLs.

The FidelityVCF initiative between Quantum3D and SYSGO offers several crucial capabilities to embedded systems designers that are uniquely valuable in deployed realtime visual and interactive systems. First, FidelityVCF provides engineers with a solution that satisfies safety-critical needs for applications where failure may have catastrophic consequences. Both IData and PikeOS are certifiable for safety-critical use according to ARINC-653 Specification: Avionics Application Standard Software Interface, and RTCA DO-178B Level-A Specification: Software Considerations in Airborne Systems and Equipment Certification. Second, the combination of iData and PikeOS provides a complete solution for applications that require secure partitioning of data display or user interfaces across differing criticality or security levels. For example, using IData and PIKEOS, Level-A criticality data can be simultaneously displayed with Level-D data, each running in a secure partition and insulated from the effects of the other. Similarly, user interfaces at different security levels may be displayed simultaneously with absolute assurance that no application data can cross partition boundaries.

"There are several choices in RTOS products for safety-critical and MLS visual computing applications, but none have the technical advantages of PikeOS from our perspective," said Ross Q. Smith, Quantum3D co-founder and president. "By working with SYSGO to tightly integrate our IData visual computing framework with PikeOS, we're able to provide our customers with a DO-178B Level-A certifiable and ARINC-653 certifiable processing and display solution that delivers the best performance and features in the market, with the least risk and shortest time to market. Everyone wins!"

"Certification schedule and costs for embedded visual computing applications can be significantly reduced by using Quantum3D's Dynamic Bytecode™ technology, which is part of IData and which eliminates the need to recreate and recertify HMI application source code from scratch each time. PikeOS is targeting exactly the same issue – but at the operating system level as opposed to the HMI level," said Detlev Schaadt, SYSGO CTO. "So tight integration of these two products is a natural fit. FidelityVCF provides a highly integrated development for deploying secure and safety-critical visual computing applications. FidelityVCF represents the next-generation HMI framework and it opens up new horizons for HMI architects."

About PikeOS from SYSGO

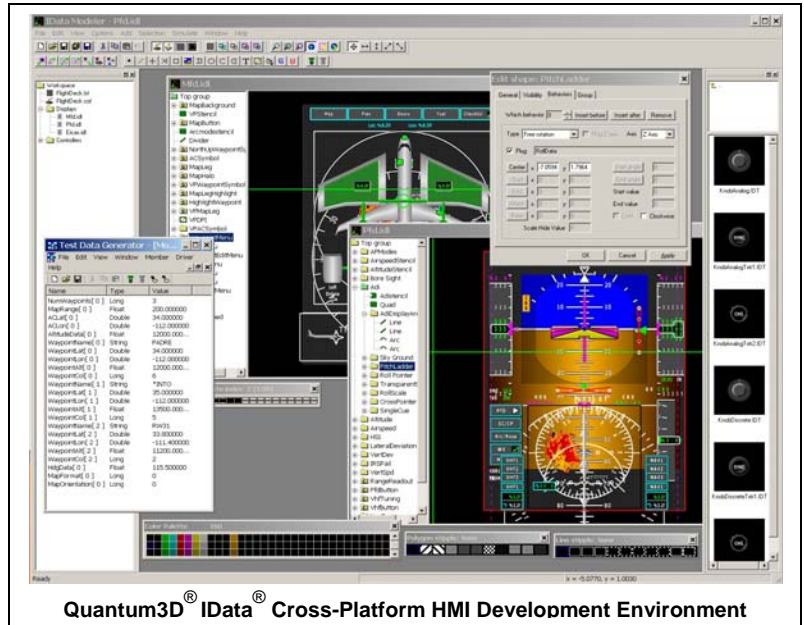
PikeOS is a powerful and efficient COTS paravirtualization realtime operating system based on a state-of-the-art separation microkernel that is optimized for safety-critical and multi-level-secure applications. PikeOS supports multiple additional operating systems and Runtime Environments (RTEs), such as Linux, ARINC-653 and POSIX, together with their associated applications. Under PikeOS, operating systems and RTEs run concurrently and cooperatively in their own partitions. Applications running under PikeOS have total separation and protection from other processes running within the same system. The PikeOS partitioning system, in conjunction with its internal protection mechanisms, provides the highest level of safety and security available in the industry today.

Window ID	Time Partition ID	Start	Duration	End
0	1	0	15	15
1	2	15	15	30
2	5	30	20	50
3	1	50	15	73
4	3	73	15	88
5	5	88	20	110
6	1	110	15	131
7	4	131	15	146
8	5	146	20	174

SYSGO® PikeOS® CODEO Development Environment
Illustrating Partitioning

About IData from Quantum3D

IData is an advanced, cross-platform, COTS realtime visual computing framework that uniquely enables developers to rapidly create and deploy model-based user interfaces and visual computing applications for embedded systems. Designed for both non-certified and DO-178B Level-A certified commercial and military embedded visual computing applications, IData is optimized for operation in both OpenGL® and OpenGL ES® embedded operating environments on a wide range of microprocessor, graphics processor and operating system platforms. With its Dynamic Bytecode generation technology, IData developers are able to rapidly and easily create optimized, executable models of sophisticated graphics, text and visual images that are directly deployable across the complete spectrum of embedded systems.



FidelityVCF at ESC SV

The FidelityVCF integrated Visual Computing Framework, along with select SYSGO and Quantum3D embedded development and deployment products and solutions, will be on display at ESC SV in the SYSGO-Quantum3D booth (no. 732) in San Jose, CA., April 2-5, 2007.

FidelityVCF Pricing and Availability

The FidelityVCF Visual Computing Framework will be sold by both companies, with Quantum3D providing sales and support for the product set in the Americas and with SYSGO providing sales and support for the product set in Europe. Initial versions of FidelityVCF, combined with a Quantum3D target reference platform, will be available in the second half of 2007. Pricing for binary development environments starts at \$50,000 USD. For more details or to request participation in the FidelityVCF Beta Program, please contact Quantum3D or SYSGO sales.

About SYSGO AG

SYSGO is specialized in design, implementation and configuration of device software for the embedded market. Besides SYSGO's real-time operating system solution for safety-critical systems, PikeOS and the Embedded Linux development environment, ElinOS, SYSGO offers the development of device drivers, board support packages and firmware. SYSGO also supports its international customers with services for Embedded Linux, real-time and certification for safety-critical applications. The target markets are Aerospace & Defense, Industrial Automation, Automotive, Consumer Electronic and Network Infrastructure. SYSGO's customers include DaimlerChrysler, EADS Airbus, EADS Military Air Systems, Honeywell, IBM, Raytheon, Rheinmetall, Rockwell-Collins as well as Rohde & Schwarz. SYSGO AG was founded in Mainz, Germany, in 1991 and was reincorporated as a joint stock company in October 2002. Today, the company has six facilities in Germany and Europe and provides a global distribution network.

About Quantum3D

Quantum3D develops and markets COTS realtime, open-architecture [Image Generation](#) (IG) solutions, [Embedded Visual Computing](#) (EVC) systems and subsystems, development software and support services for the synthetic environment visual and sensor simulation and training and tactical and industrial visual computing markets. Quantum3D is a privately held company headquartered in San Jose, California, with development centers located in Phoenix, AZ, Huntsville, AL, and Orlando, FL and with sales and logistics in Europe via Quantum3D, Ltd., located in Reading, UK. For more information about Quantum3D real-time visual computing solutions, please visit www.quantum3d.com.

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