

DDC-I and Quantum3D Deliver Safety-Critical Real-Time Display Solution for Electronic Flight Bag Applications

Quantum3D's IGL-178 OpenGL software GPU and DDC-I's DO-178B Deos RTOS host next-generation safety-critical cockpit applications

Phoenix, AZ. January 19, 2011. DDC-I, a leading supplier of software and professional services for mission- and safety-critical applications, today announced it has partnered with Quantum3D® to provide a safety-critical real-time display solution for next-generation Electronic Flight Bag (EFB) cockpit display applications. The integrated solution features Quantum3D's OpenGL® IGL-178 software graphics processing unit (GPU) running on DDC-I's Deos™ safety-critical real-time operating system. The integrated DO-178B Level A certifiable solution is built to the FAA's highest safety certification level, making it suitable for use in class three EFBs that are considered "installed equipment" and subject to airworthiness requirements.

"Deos and Quantum3D's IGL-178 provide an excellent platform for hosting next-generation safety critical cockpit applications such as Electronic Flight Bags," said Greg Rose, vice president of marketing at DDC-I. "Quantum3D's certifiable OpenGL standards-based interfaces, coupled with the high performance capabilities of our Deos operating system, deliver the perfect foundation for best-in-class cockpit solutions that can be readily certified up to DO-178B Level A."

"We have deployed our IGL-178 technology in multiple programs," said Ray Niagaris, director of EVC sales at Quantum3D. "In addition to its ability to be integrated into safety critical applications, the IGL-178 OpenGL software GPU also offers power consumption savings and 20 year product lifecycles, both of which are vital requirements for aerospace applications."

Deos is a full-featured, DO-178B Level A certifiable embedded RTOS that has been used in hundreds of safety critical avionics applications on commercial and military aircraft. The time and space partitioned RTOS features deterministic real-time response and employs patented

"slack scheduling" to deliver higher CPU utilization than any other certifiable safety-critical COTS RTOS. Built from the ground up for safety-critical applications, Deos is the only certifiable time and space partitioned COTS RTOS that has been created using RTCA DO-178B, Level A processes from the very first day of its product development. It also provides the easiest, lowest cost path of any COTS RTOS to DO-178B Level A certification, the highest level of safety criticality.

Quantum3D's IGL-178 is an efficient, small footprint software GPU that implements the industry standard OpenGL SC (Safety Critical) API to render graphics on platforms with limited or no dedicated graphics acceleration. Featuring real-time 2D and perspective-correct 3D rendering, IGL-178 provides TrueStroke™ support for fully anti-aliased high-quality lines and points. It also features support for line and polygon stipple, comprehensive texture mapping, Mipmap and tri-linear Mipmap filtering, Gouraud shading, and an optional client/server virtualized driver.

About DDC-I, Inc.

DDC-I, Inc. is a global supplier of real-time operating systems, software development tools, custom software development services, and legacy software system modernization solutions, with a primary focus on mission- and safety-critical applications. DDC-I's customer base is an impressive "who's who" in the commercial, military, aerospace, and safety-critical industries. DDC-I offers safety-critical real-time operating systems, compilers, integrated development environments and run-time systems for C, C++, Ada, Fortran and JOVIAL application development. For more information regarding DDC-I products, contact DDC-I at 1825 E. Northern Ave., Suite #125, Phoenix, Arizona 85020; phone (602) 275-7172; fax (602) 252-6054; e-mail sales@ddci.com or visit <http://www.ddci.com/mktg.php?mc=pr1101>.