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## **VIRTUTECH® SIMICS® SELECTED TO PROVIDE VIRTUAL PLATFORM FOR NASA ORION**

*Virtual Platform Enables Full System Simulation of Orion Crew Exploration Vehicle; reduces number of hardware iterations by 50 percent and provides a software development platform 12 months prior to physical hardware availability*

SAN JOSE, Calif.— February 11, 2009 — [Virtutech, Inc.](#), the leader in virtualized system development (VSD) solutions for electronic systems, today announced that its [Simics® virtual platform](#) has been selected by [Honeywell](#) as a simulation platform for [NASA's Orion](#) crew exploration vehicle, America's spacecraft for a new generation of explorers.

Simics will help to improve the product life cycle of Orion by providing a collaboration capability for software development at least 12 months before actual hardware availability.

Orion is planned to carry crew members to the International Space Station, to the moon and eventually to Mars. It will be a key element in extending a sustained human presence beyond low-Earth orbit to advance commerce, science and national leadership.

The Simics VSD platform is valuable to space and aerospace programs because software and system developers typically have limited access to hardware platforms for which they are developing and testing software. These platforms are usually expensive, in limited supply, or unavailable because the vehicle has previously been launched. Using virtualized system development enables engineers to use flexible virtual hardware that is capable of evolving as the physical hardware evolves: from a simple commercial off-the-shelf (COTS) reference board used in the early design of the program, to different iterations or configurations of the production hardware, all the way to launched legacy hardware, which may degrade over time due to the harsh environment of space.

“The adoption of Virtutech Simics as the core virtual development platform for Orion is validation of Simics as a market leading simulation platform for the space and aerospace industry as well as for the Power Architecture market,” said Michel Genard, vice president of marketing, Virtutech, Inc. “We anticipate that the Orion Project will achieve an entirely new level of efficiency and a much faster development timeline due to the full system development capabilities of the Simics platform.”

Simics is a high performance full-system simulator that enables engineers to develop, debug, test and run their entire software application stack on a virtual representation of their target hardware, called a virtual platform. The overall engineering development



efforts are reduced through advanced capabilities normally not available with physical hardware: non-invasive debugging and tracing, saving and later resuming execution, full deterministic behavior, built-in networking capabilities, forward and reverse execution, ability to examine, control and break on any internal device and to inject faults, and the ability to save system state and later replay it. Simics runs unmodified production-quality binaries and can be used with third party software development tools.

Phoenix-based Honeywell supports Lockheed Martin's efforts in developing the Orion crew exploration vehicle by providing hardware and software for Command and Data Handling systems, displays, controls, and navigation. Lockheed Martin (NYSE: LMT) is the prime contractor to NASA for Orion.

### **About Virtutech**

Virtutech, Inc. is the leader in product development process improvement through virtualized system development (VSD). Virtutech Simics® allows for a revolutionary change in the product development process at a full system level rather than a component level and is the only commercial solution that delivers the four most important criteria for successful deployment of hardware virtualization in the electronics equipment development process: speed, scalability, model availability, and control. Simics customers report reduced time to market, better project risk management, lower capital expenditure, product development cost and maintenance, as well as increased quality and individual productivity. Virtutech serves the needs of the world's leading OEMs in the high-performance computing, aerospace and defense, telecommunications, networking and semiconductor industries. Customers include Cisco, Ericsson, Freescale Semiconductor, GE Avionics, Honeywell, IBM, Lockheed Martin, Nortel, Northrop Grumman, MontaVista Software and Wind River. Virtutech is an active participant in organizations to drive adoption of VSD such as ARM Connected Community, Eclipse.org, IBM PartnerWorld, Power.org, OSCI and Spirit Consortium. Virtutech is headquartered in San Jose, Calif. For more information, visit [www.virtutech.com](http://www.virtutech.com).

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