Collaboration Brings SYSGO PikeOS Virtualization to MIPS32 Cores

MIPS Technologies, a leading provider of industry-standard processor architectures and cores for digital home, networking and mobile applications, and SYSGO, a leading supplier of certifiable operating systems and embedded virtualization, today announced they are collaborating to bring SYSGO's embedded virtualization technology to MIPS32 processor cores.

SYSGO's PikeOS Real-Time Operating System (RTOS) is a hypervisor virtualization platform that allows several applications and operating systems such as Android and Linux to run securely in parallel on a single hardware platform. With PikeOS, MIPS' licensees have flexibility in deploying CPU resources for different tasks, potentially eliminating the need for a dedicated security CPU in their system.

Microprocessor and system-level security are increasing in importance with the advent of mobile payments, streaming of sensitive data across devices, processing of high-value media content and other consumer-driven developments. To address these trends, PikeOS offers a unique combination of an RTOS and a secure virtualization environment.

"With PikeOS, we are addressing a new generation of embedded safety, security and reliability requirements across a range of markets. Compared to a conventional RTOS, the dynamic re-allocation of computing time enabled by PikeOS allows the best possible usage of CPU resources. We are pleased to work closely with MIPS to offer this solution to its licensees, who will benefit from the clean, flexible architecture and unique features of PikeOS," said Jacques Brygier, vice president of marketing, SYSGO.

"Hypervisor-based virtualization is an important piece of the embedded security picture across each of MIPS Technologies' target markets. Such a solution is flexible, and enables scaling of security across multiple applications and operating system instances. Together with SYSGO, we are already engaging with customers and prospects in the digital home, networking, automotive and mobile markets," said Gideon Intrater, vice president of marketing, MIPS Technologies.

Availability

PikeOS is available now for the MIPS32 24K, 34K and 74K cores. Symmetric multiprocessing (SMP) support will be available Q1 2012. To schedule a demonstration of PikeOS running on MIPS32 cores or for more information, contact SYSGO at info@sysgo.com [1] or visit www.sysgo.com [2].

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