DRIVING EMBEDDED EXCELLENCE

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Press Release

Real-time Prototyping and Windows® Applications on a Single PC

ETAS introduces RTPRO-PC – a new tool that provides users with the simultaneous operation of a real-time operating system and Windows® on the same PC.

Time was when real-time prototyping tasks called for dedicated and frequently costly real-time hardware featuring a real-time operating system (RTOS) for running the real-time software. The new ETAS RTPRO-PC software tool facilitates – on an off-the-shelf multi-core PC or laptop computer – the simultaneous operation of the real-time operating system independently of the standard Windows® operating system. At the same time, the PC itself can serve as the real-time target, all of which makes the need for special real-time hardware a thing of the past.

The deployment of RTPRO-PC makes it easy to harness the computing power of modern multi-core PCs for prototyping purposes. Because each operating system is assigned exclusive and permanent hardware resources such as microprocessor cores and memory, resource conflicts cannot occur. Also, the privileged ranking of the real-time system achieves true real-time capability characterized by minimum jitter and optimum latency.

The Windows® system running in parallel is able to access any hardware, i.e., additional network interfaces or USB ports, that are not used by the real-time target. Since the communication between the systems is handled by virtual

network interfaces, the Windows® applications perceive the system in the same way as it would external prototyping hardware.

The use of RTPRO-PC enables a developer to develop or modify a given function, and to run it instantly in real time on the same PC.

For more information, visit www.etas.com/RTPRO-PC

ETAS GmbH

ETAS GmbH was founded in 1994 as a subsidiary of Robert Bosch GmbH. We today employ around 650 personnel and are represented in Germany, United States, Japan, Korea, P.R. China, India, France, UK, Sweden, Italy, Brazil, and the Russian Federation.

As a dependable and responsible partner, we offer a comprehensive product portfolio of integrated tools and tool solutions designed to increase quality and efficiency in the development and maintenance of embedded systems. Our tools are widely deployed in automotive and adjacent segments of the embedded industry.

The product portfolio is complemented by engineering services, consulting, training, and first-class customer service. We are an active contributor to standardization committees such as ASAM, OSEK, Nexus, AUTOSAR, AESAS, FlexRay, LIN, and JasPar.

For more information, visit www.etas.com