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## **Embedded Power Corporation and Motorola StarCore Announce RTXCDSP Operating System**

- **Cuts DSP application development time by preservation of legacy code**
- **Encourages code re-use**
- **Supports developers with a rock-solid upgrade path**

San Jose, CA - DSPWorld Spring 2000 - Embedded Power Corporation and Motorola announced the RTXCDSP™ real-time operating system, a vital extension to RTXCTM™ operating system product line that targets Motorola and StarCore-based applications.

RTXCDSP Kernel combines an innovative modular scheduling architecture with the proven and robust technology of Embedded Power's RTXCTM™ RTOS. Modular scheduling allows users to optimize their DSP-based embedded designs by matching scheduler architecture attributes with application requirements. RTXCDSP also delivers high performance network communications capabilities with two subsystems - RTXCDSP i/o and RTXCDSP tcp/ip.

"We've supplied DSP-based embedded system developers with a roadmap that makes it easy to port their custom scheduler legacy code to the RTXCDSP API without sacrificing performance," says Tom Barrett, Chief Executive Officer of Embedded Power. "We're thinking beyond time-to-market considerations. RTXCDSP is for developers who realize the importance of investing the time we have saved them where it counts - developing their applications."

Barrett points to the ease and economy with which developers can port their legacy code to the DSP environment. "We want to help DSP developers capitalize on existing code, save on the cost of porting their existing applications, and most of all, help them avoid rewriting scheduler code with each product development cycle. RTXCDSP RTOS helps them address these significant business challenges, and is perfectly tuned for StarCore, Motorola 8101, and 563xx/566xx families."

"We are very pleased with Embedded Power's excellent progress in terms of launching RTXCDSP RTOS in support of the StarCore SC140 DSP core", said Thomas Brooks, StarCore Marketing Director. "Customers developing DSP-based System-On-Chip products for

communications applications will benefit greatly from RTXCdSP. At the same time, Embedded Power will gain access, through their support of the StarCore SC140, to the combined customer base of two DSP leaders, Lucent Technologies and Motorola Microelectronics."

Mark Taylor, Director, Developer Relations, Motorola Semiconductor Product Sector adds, "Our long term relationship with Embedded Power Corporation and our knowledge of their technical expertise and commitment afforded us great comfort selecting RTXC for StarCore as well as the RTOS for 563xx/566xx DSP." Motorola's Strategic DSP Applications Manager, Ed Martinez explains, "Motorola's requirements for a next generation DSP RTOS specify a royalty free product with significant improvements in performance over other commercial RTOS products. The RTXCdSP RTOS contains these performance enhancements - along with an enticing architecture that allows straightforward conversion from proprietary scheduler or SPOX-based systems."

Part of this product's 'enticing architecture' is in its significantly evolved modular architecture that allows perfect matching of its scheduling architecture to DSP developers' application requirements - with an astonishingly small footprint.

A single-stack implementation provides multi-threading and level-specific thread priorities for superfast linear processes that profit from the use of static kernel objects.

A multiple-stack multitasking implementation provides intertask communications and synchronization for efficient management of diverse event-source inputs that can capitalize on the use of dynamic kernel objects.

Both versions easily combine in a dual-mode implementation that allows optimization of system-wide performance. The same kernel service API is maintained across all modules.

"Now," added Alford Frost, Chief Operating Officer of Embedded Power, "As the requirements for their application increase, customers will appreciate that the RTXCdSP RTOS already contains the power and flexibility needed to meet their requirements. Combined with the extensive landscape of StarCore DSP and Motorola's DSP product families - this power assures our customers a stable high-performance upgrade path throughout their products' life cycles.

Embedded Power distributes all RTXC products in source code form. The code is written primarily in C, and features a single Application Programming Interface for all supported processors. "Of course," says Barrett, "the RTXC brand is well known in the industry for precision-designed RTOS products. The RTXCdSP OS is fully scalable and royalty-free. It has been thoroughly tested on a broad range of microprocessors, microcontrollers, and DSP processors."

Embedded Power Corporation (formerly Embedded System Products) headquartered in Houston, Texas, produces embedded system development products including EmProve™, an embedded software development framework; RTXC™ real-time O/S including full internet protocol stack, file, and graphics sub-systems and RTXCdSP; and its x86 development and debug products based around the VisualProbe™ debugger and Link&Locate® utilities.

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