Express Logic Introduces ThreadX-Lite for IAR Embedded Workbench Users

Express Logic, Inc., the worldwide leader in royalty-free, real-time operating systems (RTOS), announced the IAR Systems exclusively offered ThreadX-Lite RTOS, a new, single-user license targeting the ARM Cortex-M series microcontrollers. A subset of the popular ThreadX RTOS, ThreadX-Lite contains many ThreadX features and capabilities packaged in a compact object library designed with IAR Systems for use with the IAR Embedded Workbench IDE.

ThreadX-Lite, like ThreadX, is a real-time, priority-based, preemptive scheduling RTOS with services for the use and management of threads, queues, timers, semaphores, event flag groups, byte pools and block pools. It shares the ThreadX API for these services, and applications written using ThreadX-Lite are immediately able to run with ThreadX, should developers desire to upgrade to the full system for maximum functionality and full source code.

Designed specifically for microcontrollers, ThreadX-Lite is amazingly small, requiring a mere 2KB of ROM and less than 1KB of RAM. Similarly fast, ThreadX-Lite executes a context switch on a 100MHz Cortex-M3 processor in less than one microsecond. For developers just starting to use an RTOS, ThreadX-Lite is an excellent choice thanks to its features as a small, easy-to-use, fully supported, well documented, and inexpensive RTOS. ThreadX-Lite targets Cortex-M0, M0+, M3, and M4-based microcontrollers from Atmel, Freescale, Fujitsu, Infineon, NXP, STMicroelectronics, and Texas Instruments, making it an ideal platform for electronic products in the areas of consumer electronics, medical devices, and industrial control.

When used with IAR Embedded Workbench, ThreadX-Lite makes available many run-time development capabilities, including support for Express Logic’s TraceX® graphical event-trace tool and extensive RTOS awareness in the IAR C-SPY® Debugger. Together, ThreadX-Lite and IAR Embedded Workbench provide an ideal platform for new product development.

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