

Real Time Engineers Ltd announces FreeRTOS+

Extensions bring advanced features to world's favourite embedded kernel

23 February, 2012 — Bristol, U.K. Real Time Engineers Ltd, creator of the industry's favourite real time kernel for microcontrollers; FreeRTOS, has announced a major expansion program that increases developer productivity and adds advanced networking and internet features to the world's most popular embedded kernel. The new features are also supported by a dedicated website portal: www.FreeRTOS.org/FreeRTOS-Plus.

Richard Barry, CTO and Director, Real Time Engineers Ltd, commented: "We're bringing together a select group of FreeRTOS extensions that should appeal to the kernel's large user-base, as they offer significant productivity gains while extending the kernel's capabilities through simple interfaces."

Under the FreeRTOS+ brand, Real Time Engineers will offer a range of extensions developed in-house, with further support for select technology from trusted partners, supplied fully tested and integrated for use with the kernel.

Initially they comprise:

- FreeRTOS+IO, which provides a simple 'POSIX-like' interface to peripheral driver libraries, using familiar syntax such as `open()`, `read()`, `write()`;
- FreeRTOS+CLI, a user-interface for executing instructions using a command-line input;
- FreeRTOS+Nabto examples, which demonstrate the innovative 'micro web server' technology from Nabto, that enables simple devices to communicate over the internet, and;
- FreeRTOS+Trace, a powerful trace tool supplied by Percepio that provides 15 graphically interconnected views to deliver a world-class insight in to the runtime behaviour of FreeRTOS applications.

'If it consumes power, someday it will be connected to the Internet'

Nabto is a complete Cloud-based infrastructure that redefines the embedded networked device. It makes it possible for even the smallest device to become an embedded web server, requiring less than 1kbyte of code running on a simple MCU. FreeRTOS+Nabto will allow virtually any end-user device to not only receive but also send information across the Internet.

In addition, Real Time Engineers Ltd is announcing advanced networking features through the support of embTCP, which brings together components from InterNiche with the FreeRTOS kernel in to a very low cost, optimised TCP/IP v4 library. It includes all the components needed to create client, server or client/server applications, with Telnet, FTP and HTTP support offered as standalone extensions.

Availability:

All FreeRTOS+ solutions will be launched during Embedded World 2012. FreeRTOS+IO extension will initially target NXP's LPC1769 microcontroller, embTCP will initially be available for the NXP LPC1768.

About FreeRTOS

FreeRTOS™ is an open source embedded RTOS with implementations on more than 31 embedded architectures. In existence for more than 9 years, its popularity has grown tremendously and it has reached a download rate of more than 7000 per month, making it one of the most widely used embedded operating systems in the world. The license allows users to deploy applications without publishing their proprietary application code. It can be freely downloaded from <http://www.FreeRTOS.org>