RENESAS Tool News

Real-Time OS for RX Family RI600/PX Launched

We have launched the real-time OS for the RX family of MCUs RI600/PX V.1.00 Release 00.

1. Overview

Real-time OS RI600/PX, which conforms to the uITRON4.0 specifications, has been developed by introducing memory protection function to RI600/4, a real-time OS for the RX family. RI600/PX is used for systems designed with the RX family of MCUs that come with MPU (Memory Protection Unit).

The memory protection function enables you not only to design highly reliable systems but also easily detect errors arising from memory crashes, so that debugging can be performed in much higher efficiencies. In addition, its compactly designed kernel is effective at achieving high-speed real-time operation.

It also maintains a high degree of compatibility with our existing OSes conforming to the uITRON4.0 specifications.

2. Features

Main features of the product are as follows:
- Supports memory protection function.
- Conforms to the uITRON4.0 specifications, an industry standard.
- Supports dynamic generation of objects.
- Compactly designed to minimize ROM consumption.
  The product makes CPU reach in full potential.
- Provides a good interface with C language.
  When the product is used together with the C/C++ compiler package for the RX family, it can directly call its kernel without using the C-language interface library, which makes code size smaller and execution speed faster.
- Compatible with High-performance Embedded Workshop, an integrated

development environment (IDE).

The OS-oriented project-generation functions of High-performance Embedded Workshop included with the C/C++ compiler package for the RX family automatically make settings of the options necessary to build, which enables you easily to install the OS in applications.

For detailed information about the specifications of the product, see its data sheets at:

http://www.renesas.com/ri600_px

This site will be opened on November 7, 2011.

The above URL is one of our global sites.

3. Ordering the Product

Mass-production licenses and evaluation licenses are available.
For details of license agreements, see the Web site at:

http://www.renesas.com/itron/agreement

License information about RI600/PX will be published on this site on November 7, 2011.

The above URL is one of our global sites.

When you place an order for the product, supply the following items of information to your local Renesas Electronics marketing office or distributor:

Product type: RI600/PX
Type name: R0R5RX00PRW01w

NOTE:
Letter w denotes a type of license. It shall be replaced with any one of the following numeral and letters:
1: Evaluation license: The real-time OS can be installed on only one host computer.
A: Evaluation license: The real-time OS can be installed on the unlimited number of host computers.
K: Mass-production license: The real-time OS can be embedded in up to 3,000 products with the source code closed.
U: Mass-production license: The real-time OS can be embedded in the unlimited number of products with the source code closed.
Z: Mass-production license: The real-time OS can be embedded in the unlimited number of products with the source code disclosed.

Example:
In mass-production license for manufacturing the unlimited number

of products with the source code closed, the type name is
R0R5RX00PRW01U.