

RENESAS TOOL NEWS on January 1, 2006: RSO-HI7000/4-060101D

The Real-Time OS HI7000/4 Revised to V.2.02 Release 01

We have revised the real-time OS HI7000/4 from V.2.01 Release 00 to V.2.02 Release 01. The HI7000/4 supports the SH-1-, SH-2-, SH2-DSP-, SH-2E- (excluding FPU), SH-2A- and SH2A-FPU-cored MCUs, SuperH RISC engine family.

NOTE: V.2.02 Release 00 is missing number.

1. Versions Concerned

HI7000/4 V.2.00 Release 00 through V.2.01 Release 00

2. Descriptions of Revision

2.1 Functions Introduced and Improved

- (1) Whether to use register banks or not is chosen at each interrupt priority level. (Register banks are implemented only in the SH-2A-cored MCUs.)
- (2) The direct interrupt handler can be defined by the `def_inh` or `iddef_inh` service call.
- (3) Vector number 26 can be used only by Kernel.
- (4) In the variable-length memory-pool functions, time for Kernel to handle service calls is reduced when the `CFG_NEWMPL` check box is checked. (This check box is in the Modification of Variable-Size Memory Pool Information dialog box of the configurator.)
- (5) When the configurator is invoked, the `hcf` file saved at the last time can be opened automatically.
- (6) If the configurator automatically adjusts values in

the following combo boxes, messages telling the adjustments are displayed:

- CFG_LOWINTNST
- CFG_TIMINTLVL
- CFG_MAXVCTNO

2.2 Problem Fixed

The problem described below has been fixed. It had been encountered in the previous versions V.2.00 Release 00 through V.2.01 Release 00.

Problem:

Unnecessary "extern" statements are created in files generated by the configurator. As a result, errors arise during compilation of any kernel_def.c or kernel_cfg.c files.

Conditions:

This problem occurs if the following conditions are all satisfied:

- (1) The Allocated by Kernel radio button is selected in the Task creation, Fixed-size memory pool creation, or Variable-size memory pool creation dialog box of the configurator.
- (2) Any address is typed in the Address edit box placed under the dialog box mentioned above.

Note that this problem may also occur if generation of a fixed-length or variable-length memory pool is specified in an hcf file by the configurator of version 1.xx, and this hcf file is read by that of version 2.00 or later.

3. How to Update Your Product and Purchase the Revised One

3.1 Free-of-Charge Update

Free-of-charge update is available. If you are using the product concerned, download the revised product from Download site.

3.2 First Ordering

If you place an order for the product, please supply the

following items of information to your local Renesas Technology sales office or distributor (for the price of the product, also contact them):

Product Type	HI7000/4
Type Name	R0R40700TXW02w
Version No.	V.2.02
Release No.	Release 01
Host OS	Windows XP, Windows Me, Windows 98, Windows 2000, or Windows NT 4.0

NOTICE:

Lower-case letter w in the type name denotes the type of license. It shall be replaced with any of the following numerals or letters according the type of license you want:

- 1: License for evaluation; a real-time OS can be installed only to one host computer.
- 5: License for evaluation; a real-time OS can be installed up to 5 host computers.
- A: License for evaluation; a real-time OS can be installed up to 10 host computers.
- K: Mass-production license; a real-time OS can be embedded up to a total of 1,000 productions of product model(s) with the source code not disclosed.
- U: Mass-production license; a real-time OS can be embedded up to unlimited productions of product model(s) with the source code not disclosed.
- Z: Mass-production license; a real-time OS can be embedded up to unlimited productions of product model(s) with the source code disclosed.

Example:

For mass-production license up to a total of 1,000 productions with the source code not disclosed, the type name is
R0R40700TXW02K

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