

Real-Time OSes HI7700/4 and HI7300/PX Revised

We have revised real-time OSes for the SuperH MCU family as follows:

- HI7700/4 V.2.02 Release 02 revised to V.2.03 Release 00
(the real-time OS for the SH-3, SH-3-DSP and SH4AL-DSP)
 - HI7700/4 V.1.03 Release 02 revised to V.1.04 Release 00
(the real-time OS for the SH-3, SH-3-DSP and SH4AL-DSP)
 - HI7300/PX V.1.01 Release 01 revised to V.1.02 Release 00
(the real-time OS for the SH-4A and SH4AL-DSP)
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1. Description of Revision

The `vref_otm` and `ivref_otm` service calls have been introduced, which evaluate effects of the optimized timer driver.

The optimized timer driver reduces the frequency of generation of timer interrupt requests by disabling the high-precision timer's interrupts generated at unnecessary timing. So utilize the evaluation results of the above service calls to adjust the value of `hi_longticrate`, which is defined in the `kernel_def_opttmr_set.h` file.

Using these service calls provides you with the following items of information:

- (a) The number of timer interrupts generated up to now
- (b) The number of timer interrupts assumed to be generated up to now if the optimized timer driver were not used

The smaller the quotient of the number in (a) by the number in (b) is, the better effects have been brought about by the optimized timer driver.

For details of the specifications of the above service calls, see the release note included with each product.

2. How to Update Your Products

Free-of-charge online update is available. If you are using any of the products to be updated (see below), download its installer from the Web site (also see below) and execute it. These site will be opened from October 22 on.

(1) The update to HI7700/4 V.2.03 Release 00

The products to be updated:

HI7700/4 V.2.01 Release 00 through V.2.02 Release 02

Download Site

(2) The update to HI7700/4 V.1.04 Release 00

The products to be updated:

HI7700/4 V1.00r1 through V.1.03 Release 02

(Note that the update from these to V.2.03 Release 00 is unavailable.)

Download Site

NOTICE:

V.1.04 Release 00 and later will not be supported by Windows Me, Windows 98, Windows 98SE, Windows 95, and Windows NT 4.0.

For details, see RENESAS TOOL NEWS published on October 1, 2006, at <http://tool-support.renesas.com/eng/toolnews/061001/tn6.htm>

(3) The update to HI7300/PX V.1.02 Release 00

The products to be updated:

HI7300/PX V.1.00 Release 00 through V.1.01 Release 01

Download Site

NOTICE:

V.1.02 Release 00 and later will not be supported by Windows Me, Windows 98, Windows 98SE, Windows 95, and Windows NT 4.0.

For details, see RENESAS TOOL NEWS published on October 1, 2006, at <http://tool-support.renesas.com/eng/toolnews/061001/tn6.htm>

3. First Ordering

If you place an order for any of the revised products, please supply the following items of information to your local Renesas Technology sales office or distributor (for the prices of the products, also contact them):

(1) HI7700/4

Product Type:	HI7700/4
Type	

Name:	R0R40770TRW02w
Version No.:	V.2.03
Release No.:	Release 00
Host OS:	Windows XP or Windows 2000

NOTICE: No order for V.1.04 Release 00 is acceptable. Update yours to it if necessary.

(2) HI7300/PX

Product Type:	HI7300/PX
Type Name:	0R50730PRW01w
Version No.:	.1.02
Release No.:	Release 00
Host OS:	Windows XP or Windows 2000

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 to 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 lower-case letter is K.

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