

Note on Using Renesas Peripheral Driver Libraries for RX210/RX630 Groups of MCUs --With Reading Current Time and Date from Real-Time Clock (RTC)--

When using Renesas Peripheral Driver Libraries for the RX210/RX630 groups of MCUs, take note of the following problem:

- With reading current time and date from real-time clock (RTC)
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1. Products and Versions Concerned

- RX210 Group Renesas Peripheral Driver Library V.1.01
- RX630 Group Renesas Peripheral Driver Library V.1.00

2. Description

The R_RTC_Read function of the above Renesas Peripheral Driver Libraries reads the current time and date from the real-time clock (RTC) and stores their values on the addresses specified by the third arguments of the function. However, the storing format of these values is different from the one described in the user's manual, as shown below.

2.1 Storing Format in User's Manual

(1) In 24-hour mode

- bits 31-24: Day of week
- bits 23-16: Hour
- bits 15-8: Minute
- bits 7-0: Second

(2) In 12-hour mode

- bits 31-24: Day of week
- bit 23: AM/PM
- bits 22-16: Hour
- bits 15-8: Minute

bits 7-0: Second

2.2 Storing Format in R_RTC_Read function

(1) 24-hour and 12-hour modes

bits 31-24: Day of week

bit 23: Always read as 0

bit 22: AM/PM

bits 21-16: Hour

bits 15-8: Minute

bits 7-0: Second

3. Workarounds

3.1 In RX210 Group Renesas Peripheral Driver Library

Be aware that the time and date properties read by the R_RTC_Read function are those shown in Section 2.2; different from those in the user's manual.

3.2 In RX630 Group Renesas Peripheral Driver Library

We have already fixed this problem in RX630 Group Renesas Peripheral Driver Library V.1.10. So use this library.

V.1.10 has been released on April 1, 2013.

The revised sample program will be published in the Web page on April 5.

For details, see RENESAS TOOL NEWS Document No. 130401/tn7.

You can also see this news on the Web page at:

<https://www.renesas.com/search/keyword-search.html#genre=document&q=130401tn7>

This page will be opened on April 8.

4. Schedule of Fixing Problem

As to RX210 Group Renesas Peripheral Driver Library, we plan to fix this problem in its later version.

RX630 Group Renesas Peripheral Driver Library has already been fixed in V.1.10, as described above.

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