RENESAS Tool News

Note on Using Renesas Peripheral Driver Library for RX62N/RX621 Groups and Peripheral Driver Generator -- With Using Serial Communication Interface (SCIa) --

When using Renesas Peripheral Driver Library for the RX62N/RX621 groups and Peripheral Driver Generator, take note of the following problem:

- With using serial communication interface (SCIa)

1. Products and Versions Concerned
  - RX62N, RX621 Group Renesas Peripheral Driver Library V.1.10
  - Peripheral Driver Generator V.2.08

2. Description
  If the asynchronous mode has been selected, data are not transmitted while data reception is enabled (see NOTE), even if this is attempted.

  NOTE:
   "While data reception is enabled" indicates the state where the RE bit of the Serial Control Register (SCR) is set to 1.

3. Workaround
  If data reception is enabled before data transmission is to start, disable data reception.
  After the intended data transmission is complete, enable data reception again.

  (1) Example in Renesas Peripheral Driver Library

```
      /* Stop reception */
      R_SCI_Control(channel, PDL_SCI_STOP_RX);
      /* Transmit data */
      R_SCI_Send(channel, PDL_NO_DATA, tx_buffer, size, PDL_NO_DATA);
      /* Start reception */
```

```
R_SCI_Receive(channel, PDL_NO_DATA, rx_buffer, size,
              sci_rx_callback, sci_rxe_callback);
```
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  (2) Example in Peripheral Driver Generator

```
/* Stop transmitting or receiving serial data */
R_PG_SCI_StopCommunication_Cx();
/* Transmit serial data */
R_PG_SCI_SendAllData_Cx(tx_buffer,  size);
/* Start receiving serial data */
R_PG_SCI_StartReceiving_Cx(rx_buffer,  size);
```
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4. Schedule for Fixing the Problem
  This problem will be fixed in a later version of the product.