RENESAS Tool News

Note on Using Automatic Driver Generator Applilet3

When using automatic driver generator Applilet3, take note of the following problems:

- Problems arising in Applilet3 for RL78/G13 and Applilet3 for RL78/G14

1. Products Concerned

Applilet3 for RL78/G13 V1.03.01
Applilet3 for RL78/G14 V1.01.01

2. Descriptions

In each of the products concerned, the following problems arise:

(1) In Applilet3 for RL78/G13 V1.03.01

    a. If code is generated so that timers TAUx (x is 1 to 7) of an 80-, 100-, or 128-pin MCU can output square waves, the values of the TOM1 and TOL1 registers, which control TAUx, are not set but those of the TOM0 and TOL0 registers are set.

    b. If you make settings of ports, the TTL checkboxes for the P10 and P11 pins are not displayed.

(2) In Applilet3 for RL78/G14 V1.01.01

    a. In the code for setting registers PIOR01 and PIOR04 to 1s in an arrangement of pin assignments, incorrect pins are assigned to INTP10 and INTP11 as follows:

Incorrect:	Correct:
P110 assigned to INTP10	P100 assigned to INTP10
P111 assigned to INTP11	P110 assigned to INTP11

    b. If code is generated in an 80- or 100-pin MCU, no functions except "interval" can be selected in the functional selection of

timer TAU1.

   c. If the code is generated for making settings of UART2 and any of
      the ports except 13 and 14, an error arises in building it.
      Example:
        If you use UART2 and set ports 10, 11, and 12 to the output
        state, the following code is generated; however, the last "|"
        is unnecessary:
           PMC1 = . . . | _80_PMCn7_NOT_USE | ;
        If build is performed including this code, an error arises.
        It must be generated as follows:
           PMC1 = . . . | _80_PMCn7_NOT_USE ;

   d. In the settings of DTC, the following error is found in the pull-
      down list of source and destination addresses of data transfer:
        Erroneous statement: Address decremented
      It must be read as Address incremented

3. Workaround

See the hardware manuals of the RL78/G13 and RL78/G14 groups of MCUs
and rectify the generated source programs.

4. Schedule of Fixing Problems

We plan to fix these problems in the next release of Applilet3 for
RL78/G13 and Applilet3 for RL78/G14 (due to be released in October 2012).