RENESAS Tool News

Note on Using Code Generator for RL78 Family, 78K0R, and 78K0 MCUs, Which is Used with CubeSuite+

When using the code generator for the RL78 family, 78K0R, and 78K0 MCUs, which is used with CubeSuite+, take note of the following problem:

- With using the code generators for the RL78/G13 and RL78/G14 groups of MCUs

1. Product and Versions Concerned

CubeSuite+ Code_Generator for RL78_78K (the code generator for the RL78 family, 78K0R and 78K0 MCUs, which is used with the CubeSuite+) V1.00.04 and V1.00.05

To check to see the version number of your product, follow these steps:
  (1) Open the Add/Remove Programs list in Windows Control Panel.
  (2) Click the icon of CubeSuite+ Code_Generator for RL78_78K.
  (3) Then click "Click here for support information."
     The version number will be shown.

2. Descriptions

In each of the code generators for RL78/G13 and RL78/G14 groups of MCUs included in the product concerned, the following problems arise:
(1) The code generator for RL78/G13 group
   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) The code generator for RL78/G14 group

    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 ;
```

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 CubeSuite+ (due to be released at the end of 2012).