

Notes on Using Simulator for 78K0R/Ix3 MCUs V3.00.00 together with CubeSuite+

When using the simulator for the 78K0R/Ix3 MCUs V3.00.00 together with CubeSuite+, take note of the following restrictions:

- Restriction about the clock selection of timer array unit 1
- Restriction about write access for Timer input select register 0 (TISO)
- Restriction about write access for A/D converter mode register (ADM)

1. Product Concerned

Simulator for 78K0R/Ix3 MCUs V3.00.00 (used together with CubeSuite+)

To check to see the version number of your product, follow these steps:

- (1) Start CubeSuite+; then in the Debugging Tool list, select Simulator.
- (2) Press the Download button to link CubeSuite+ with the simulator.
- (3) On the Help menu, select "About" to open the Version Information dialog box.
- (4) In the Explanation column of "RL78,78K0R Simulator Plug-in", the version number is displayed after 78K0R_Ix3 Simulator.

2. Descriptions

2.1 Restriction about the clock selection of timer array unit 1

In this problem, the 78K0R/KF3-L and the 78K0R/KG3-L MCUs are involved.

When timer array unit 1 is used, timer clock select register 1 (TPS1) cannot select the clock for this unit. Timer clock select register 0 (TPS0) selects the clock for timer array unit 1 in error as well as selecting the one for timer array unit 0. Timer clock select register 1

should select the clock for timer array unit 1.

2.2 Restriction about write access for Timer input select register 0 (TIS0)

In this problem, the 44-pin and 48-pin 78K0R/KC3-L, and the 52-pin 78K0R/KD3-L MCUs are involved.

On Timer input select register 0 (TIS0), no values can be loaded. So the divided-by-4 subsystem clock ($f_{SUB}/4$) cannot be inputted to each channel of timer array unit 0 as a timer input.

2.3 Restriction about write access for A/D converter mode register (ADM)

In this problem, only the 48-pin 78K0R/KC3-L MCUs are involved.

On A/D Converter Mode register (ADM), no values can be loaded. So conversion cannot be allowed.

3. Workarounds

We have no plans to circumvent these problems.

4. Schedule of Fixing the Problems

We are going to fix these problems in the product's next version, V3.00.01. It will be released, included in CubeSuite+ V1.01.00, at the end of November 2011.

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