

[Notes]

R20TS0669EJ0100

Rev.1.00

Feb. 16. 2021

CS+ Code Generator for RX, e² studio Code Generator Plug-in, AP4 Coding Assistance Tool for RX

Overview

When using any of the products in the title, note the following point.

1. Notes on using external pin interrupt (IRQ)

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1.1 Applicable Products

CS+ Code Generator for RX V1.03.00 (CS+ for CC V3.00) or later

Code Generator plug-in C1.0.0 (e² studio V2.1.0.021) or later

AP4 Coding Assistance Tool for RX V1.00.00 or later

1.2 Applicable MCUs

RX family

RX110, RX111, RX113, and RX130 groups

RX230, RX231, RX23T, RX24T, and RX24U groups

RX64M, RX651, RX65N, and RX71M groups

1.3 Description

When external pin interrupts (IRQ) are used, an interrupt request (IR) is not cleared in the generated code after a port is set up. Therefore, an external pin interrupt (IRQ) may occur when interrupts are enabled.

1.4 Conditions

- (a) External pin interrupt (IRQ) detection is set to low level, falling edge, or both edge.
- (b) The external pin holds a low-level input.

1.5 Workaround

In the Project Tree, expand [Code Preview] – [Interrupt Controller Unit] – [r_cg_icu_user.c], right-click [R_ICU_Create_UserInit], and then select [Generate Code] from the context menu. This generates the R_ICU_Create_UserInit function.

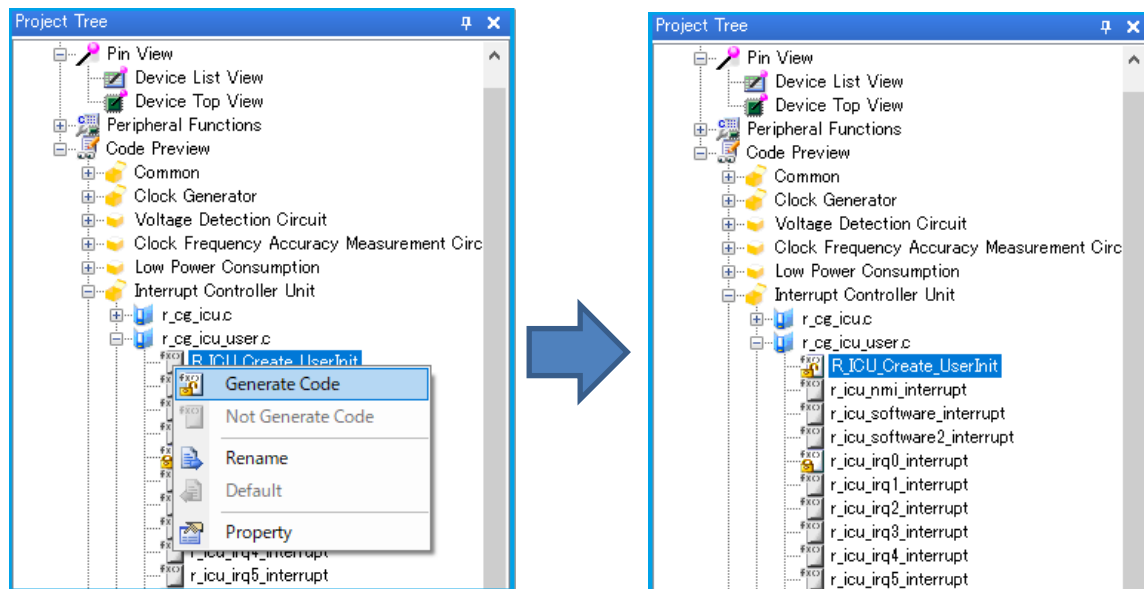


Figure 1-1 Adding a generated code (R_ICU_Create_UserInit)

Add the code in **red** to clear the interrupt request flag for the external pin interrupt used for the R_ICU_Create_UserInit function generated by code generation.

- Source file: r_cg_icu_user.c
- Function: void R_ICU_Create_UserInit(void)

```

/*****
* Function Name: R_ICU_Create_UserInit
* Description   : This function adds user code after initializing ICU.
* Arguments     : None
* Return Value  : None
*****/
void R_ICU_Create_UserInit(void)
{
    /* Start user code. Do not edit comment generated here */
    IR(ICU,IRQ0) = 0U;
    /* End user code. Do not edit comment generated here */
}
    
```

1.6 Permanent Measure

There is no schedule for fixing this problem.

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Feb.16.21	-	First edition issued

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Corporate Headquarters

TOYOSU FORESIA, 3- 2- 24 Toyosu,
Koto-ku, Tokyo 135- 0061, Japan

www.renesas.com

Contact information

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