

[Notes]

CS+ Code Generator for RL78 (CS+ for CC)

CS+ Code Generator for RL78 (CS+ for CA and CX)

e² studio Code Generator Plug-in

AP4 Coding Assistance Tool for RL78

Outline

When using the CS+ Code Generator for RL78 (CS+ for CC), the CS+ Code Generator for RL78 (CS+ for CA and CX), the e² studio Code Generator Plug-in, or the AP4 coding assistance tool for RL78, take note of the problem on the following point that is described in this note.

1. Peripheral I/O redirection register 0 (PIOR0)

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1.1 Applicable Products

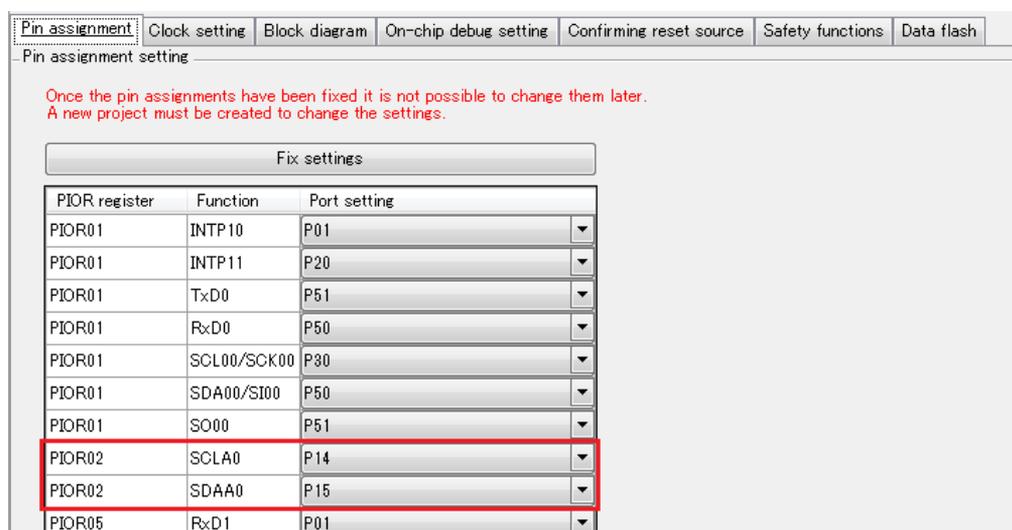
- V2.08.00 and later versions of the CS+ Code Generator for RL78 (CS+ for CC)
- V2.08.00 and later versions of the CS+ Code Generator for RL78 (CS+ for CA and CX)
- V4.0.1.007 and later versions of the e² studio (V2.0.1 and later versions of the Code Generator Plug-in)
- V1.07.00 and later versions of the AP4 coding assistance tool for RL78

1.2 Applicable MCUs

- RL78 family: RL78/G1F group (32- and 36-pin products)

1.3 Details

Regarding the common and clock generation circuit pin assignments, code generated by the tools listed above will have an error when the pin assignment setting of bit PIOR02 in the PIOR register should assign the SCLA0 and SDAA0 functions to pins P14 and P15. Thus, the serial interface IICA cannot be used.



1.4 Workaround

Correct the setting of peripheral I/O redirection register 0 (PIOR0) in the following function: “void R_Systeminit(void)” in the source file “r_cg_systeminit.c”.

This modification is required every time code is generated.

An example of the correction so that only PIOR02 is changed (only PIOR02 is set to 1) is shown below. The red text is the modification.

Before modification:

```

/*****
* Function Name: R_Systeminit
* Description  : This function initializes every macro.
* Arguments    : None
* Return Value : None
*****/
void R_Systeminit(void)
{
    PIOR0 = 0x00U;
    PIOR1 = 0x00U;
    PIOR2 = 0x00U;
    PIOR3 = 0x00U;
    R_CGC_Get_ResetSource();
    R_CGC_Create();
    R_WDT_Create();
    IAWCTL = 0x00U;
}

```

After modification:

```

/*****
* Function Name: R_Systeminit
* Description  : This function initializes every macro.
* Arguments    : None
* Return Value : None
*****/
void R_Systeminit(void)
{
    PIOR0 = 0x00U | 0x04U;
    PIOR1 = 0x00U;
    PIOR2 = 0x00U;
    PIOR3 = 0x00U;
    R_CGC_Get_ResetSource();
    R_CGC_Create();
    R_WDT_Create();
    IAWCTL = 0x00U;
}

```

1.5 Schedule for Fixing the Problem

This problem will be fixed in a later version in October 2016.

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Aug. 01, 2016	-	First edition issued

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