

[Notes]

R20TS0039EJ0100

Rev.1.00

Jun. 16, 2016

CS+ Code Generator for RX

e² studio (Code Generator Plug-in)

AP4 Coding Assistance Tool for RX

Outline

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

1. Serial communications interface SCI6
Applicable products: RX231 group (100-pin products) and RX230 group (100-pin products)
2. Saving settings for the code generator
Applicable products: RX110 group, RX111 group, RX113 group, RX130 group, RX230 group, RX231 group, RX23T group, RX24T group, RX64M group and RX71M group

1. Serial Communications Interface SCI6

1.1 Applicable Products

- V1.10.0 of the CS+ Code Generator for RX
- V5.0.0.043 and later versions of the e² studio (V2.3.0 and later versions of the Code Generator Plug-in)
- V1.09.00 of the AP4 coding assistance tool for RX

1.2 Applicable MCUs

- RX family:RX231 group (100-pin products) and RX230 group (100-pin products)

1.3 Details

Since the generated code have an error when the clock input/output pin function for the SC16 serial communications interface is assigned to P34, communications will not proceed.

1.4 Conditions

The problem arises when any of the following conditions is met.

- When transfer is asynchronous:
[Clock output] and [P34] are selected for the SCK6 pin function as part of the transfer rate settings.
- In multiprocessor mode:
[Clock output] and [P34] are selected for the SCK6 pin function as part of the transfer rate settings.
- When transfer is clock synchronous:
[P34] is selected for the transfer clock as part of the transfer rate settings.
- As a smart card interface:
[Clock output] is selected for the SCK6 pin function as a transfer rate setting, and [P34] is selected as a transfer clock setting.
- Simple SPI mode:
[P34] is selected for the SCK6 pin function as part of the transfer rate settings.

1.5 Workaround

Correct the setting of P34 pin function register (P34PFS) in the following function.

The function is “void R_SCI6_Create(void)” in the source file “r_cg_sci.c”.

This modification is required every time code is generated.

The following shows the correction in detail. The red number is the modified value.

Before modification:

```

/*****
* Function Name:R_SCI6_Create
* Description : This function initializes SCI6.
* Arguments : None
* Return Value : None
*****/
void R_SCI6_Create(void)
{
.....
/* Set SCK6 pin */
MPC.P34PFS.BYTE = 0x0AU;
PORT3.PMR.BYTE |= 0x10U;
.....
}
    
```

After modification:

```

/*****
* Function Name:R_SCI6_Create
* Description : This function initializes SCI6.
* Arguments : None
* Return Value : None
*****/
void R_SCI6_Create(void)
{
.....
/* Set SCK6 pin */
MPC.P34PFS.BYTE = 0x0BU;
PORT3.PMR.BYTE |= 0x10U;
.....
}
    
```

1.6 Schedule for Fixing the Problem

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

2. Saving Settings for the Code Generator

2.1 Applicable Products

- V4.0.0.26 and later versions of the e² studio (V2.0.0 and later versions of the Code Generator Plug-in)

2.2 Applicable MCUs

- RX family:RX110 group, RX111 group, RX113 group, RX130 group, RX230 group, RX231 group, RX23T group, RX24T group, RX64M group and RX71M group

2.3 Details

Saving a project might not be possible if the code generator of the e² studio has been used to set up certain peripheral functions. In this case, [Save] or [Save All] in [File] menu are not able to be chosen.

2.4 Conditions

This problem arises after the following sequence of operations.

- (1) Create new C project with Code Generator.
- (2) Configure the information necessary to control the peripheral functions, and [Save] or [Save All] in [File] menu.
- (3) Exiting e² studio with [C/C++] perspective.
- (4) Restart e² studio.

2.5 Workaround

When using the code generator of the e² studio, exiting e² studio with [Code Generator] perspective. Code Generator perspective could be open/reset use [Window] > [Perspective] > [Open Perspective] > [Other] > [Code Generator].

If you can't save project in the operation described in the above 2.4, it can be avoided by restarting to exit the e² studio from switching to [code generation] perspective.

2.6 Schedule for Fixing the Problem

This problem will be fixed in the next version in July, 2016.

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Jun. 16, 2016	-	First edition issued

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