

[Notes]

R20TS0501EJ0100

Rev.1.00

Oct. 16, 2019

CS+ Code Generator for RH850, AP4 Coding Assistance Tool for RH850

Outline

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

1. When using data CRC

1. When Using Data CRC

1.1 Applicable Products

- CS+ Code Generator for RH850 V1.00.00 (CS+ for CC V4.00) or later
- AP4 for RH850 V1.00.00 or later

1.2 Applicable Devices

RH850 family: RH850/F1K group

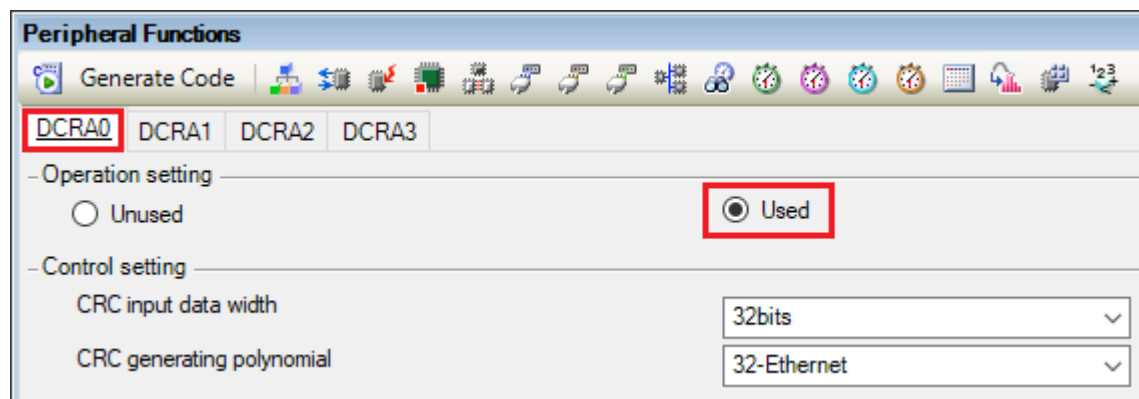
100-pin, 144-pin, and 176- pin products

1.3 Details

Because unnecessary initialization code is generated when using the following data CRC function A (DCRA), CRC calculation is not carried out correctly.

- RH850/F1K group: 100-pin, 144-pin, and 176-pin products
DCRA0 to DCRA3

■ When using DCRA unit 0



1.4 Workaround

Manually delete the unnecessary initialization code from the generated code in the following source file of data CRC function A^(Note):

- Functions in r_cg_dcra.c:

```
"void R_DCRAn_Create(void)"
```

```
"void R_DCRAn_Input32bitData(const uint32_t * data, uint32_t data_num)"
```

```
"void R_DCRAn_Input16bitData(const uint16_t * data, uint32_t data_num)"
```

```
"void R_DCRAn_Input8bitData(const uint8_t * data, uint32_t data_num)"
```

n = unit number

Note: If code is generated again, the previous state is restored. Modification is necessary each time you perform code generation.

The following is an example of the required modification for DCRA n in the RH850/F1K group. Delete the unnecessary initialization code shown in red.

Details of modification

```
void R_DCRA $n$ _Create(void)
{
    ...
    DCRA $n$ .CIN = _DCRA_CLEAR_DATA;
    /* Synchronization processing */
    ...
}

void R_DCRA $n$ _Input32bitData(const uint32_t * data, uint32_t data_num)
{
    ...
    DCRA $n$ .CIN = _DCRA_CLEAR_DATA;

    for(i=0; i<data_num; i++)
    ...
}

void R_DCRA $n$ _Input16bitData(const uint16_t * data, uint32_t data_num)
{
    ...
    DCRA $n$ .CIN = _DCRA_CLEAR_DATA;

    for(i=0; i<data_num; i++)
    ...
}

void R_DCRA $n$ _Input8bitData(const uint8_t * data, uint32_t data_num)
{
    ...
    DCRA $n$ .CIN = _DCRA_CLEAR_DATA;

    for(i=0; i<data_num; i++)
    ...
}
```

n = unit number

1.5 Schedule for Fixing the Problem

There is no schedule for fixing this problem.

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Oct.16.19	-	First edition issued

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