

[Notes]

R20TS0431EJ0100

Rev.1.00

Jun. 01, 2019

Smart Configurator for RH850

Outline

When using Smart Configurator for RH850, note the following point.

1. When using PLL0 Clock

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1.1 Applicable Products

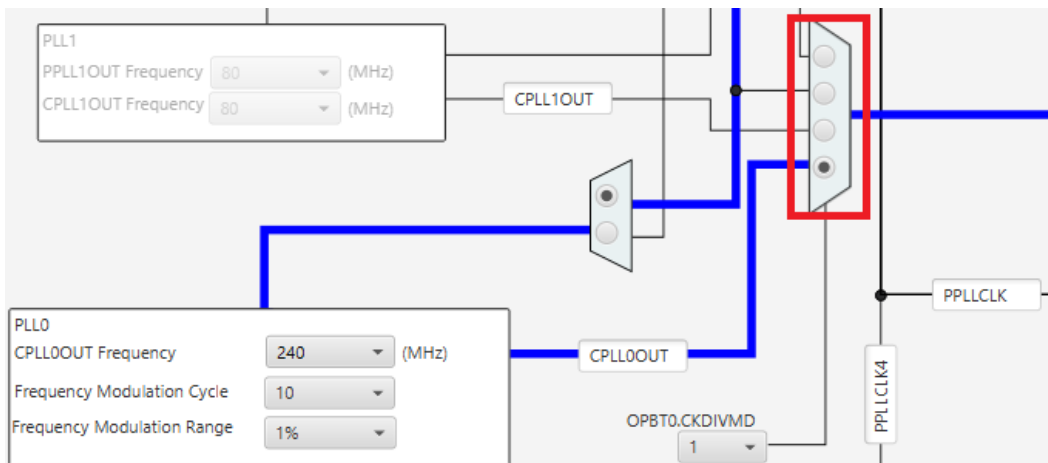
Smart Configurator for RH850 V1.0.0 or later

1.2 Applicable Devices

RH850 family: RH850/F1KM group

1.3 Details

When using the PLL0 clock of the applicable devices in section 1.2 (when CPLL0OUT is enabled as shown in the image below), incorrect code is generated.



➤ Location where incorrect code is generated

1. An incorrect macro value (red) is generated in the `_CGC_PLL0C_DEFAULT_VALUE` variable in the `r_cg_cg.c` header file.

Source example

```
r_cg_cg.h
#define _CGC_PLL0C_DEFAULT_VALUE      (0x6000503BUL)
```

2. The following code is generated in the `R_CGC_Create` function in the `r_cg_cg.c` file, setting an incorrect value (red) in the `CLKCTL.PLL0C` register.

Source example

```
void R_CGC_Create(void)
{
    ...
    CLKCTL.PLL0C = _CGC_PLL0C_DEFAULT_VALUE | _CGC_PLL0_xxx;
    ...
}
```

1.4 Workaround

Add the code (red) in the user code editing area defined in the `r_cg_cg.h` file to undefine and redefine the macro in `_CGC_PLL0C_DEFAULT_VALUE`.

➤ Process to redefine a macro

1. Display the user code editing area located under Global functions in the `r_cg_cg.h` file. The user code editing area is between the following comments.
 - `/* Start user code for user init. Do not edit comment generated here */`
 - `/* End user code. Do not edit comment generated here */`
2. Add code `#undef` to undefine the macro in `_CGC_PLL0C_DEFAULT_VALUE`.
 - `#undef _CGC_PLL0C_DEFAULT_VALUE`
3. Add code `#define` to redefine the macro in `_CGC_PLL0C_DEFAULT_VALUE`.
 - `#define _CGC_PLL0C_DEFAULT_VALUE (0x60004000UL)`

Modification example:

```
r_cg_cgc.h
/*****

Global functions
*****/

void R_CGC_Create(void);
void R_CGC_Create_UserInit(void);

/* Start user code for function. Do not edit comment generated here */
#undef _CGC_PLL0C_DEFAULT_VALUE
#define _CGC_PLL0C_DEFAULT_VALUE (0x60004000UL)
/* End user code. Do not edit comment generated here */
```

1.5 Schedule for Fixing the Problem

This problem will be fixed in the next version. (Scheduled to be released in January 2020.)

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Jun.01.19	-	First edition issued

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