

[Notes]

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CS+ Integrated Development Environment

(Downloading a Program to the Code Flash Memory of Some RH850 Family MCUs)

Outline

When using the CS+ integrated development environment, note the following points.

1. Downloading a program to the code flash memory of some RH850 family MCUs

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1.1 Applicable Products

- When some RH850 family MCUs (of the E2 series, U2A series, or U2B series) are used:

CS+ V8.01.00 to V8.07.00

[Evaluation edition] CS+ V8.01.00 to V8.07.00

1.2 Applicable Devices

RH850 family MCUs (of the E2 series, U2A series, or U2B series)

1.3 Details

In the CS+ integrated development environment, when you select some RH850 family MCUs (of the E2 series, U2A series, or U2B series) and use an emulator (E2 or IE850A emulator) to download a program to the code flash memory, the ECC error function does not operate.

1.4 Condition

Using an emulator to download a program to the code flash memory of certain RH850 family MCUs (of the E2 series, U2A series, or U2B series)

1.5 Workaround

This problem can be avoided by using the following method.

When a program is downloaded to the code flash memory by using an emulator, the ECC error function does not operate. After the program has been downloaded, restore the ECC-related registers to their initial values in preparation for debugging.

Target Device	Register				
E2M/E2x-FCC1	ICUM_LOCKCTRL※	KCPROT	CFSECCCTL	-	-
E2H/E2x-FCC2	ICUM_LOCKCTRL※	KCPROT	CFCECCCTL(CL0)	CFCECCCTL(CL1)	-
E2UH/E2x-FCC2	ICUM_LOCKCTRL※	KCPROT	CFCECCCTL(CL0)	CFCECCCTL(CL1)	CFCECCCTL(CL2)
U2A6/U2A8/ U2A-EVA/U2B6-FCC	ICUM_LOCKCTRL※	ECCKCPROT	CFCECCCTL(CL0)	-	-
U2A16/U2A-EVA/ U2B10-FCC	ICUM_LOCKCTRL※	ECCKCPROT	CFCECCCTL(CL0)	CFCECCCTL(CL1)	-
U2B20-FCC/ U2B24-FCC	ICUM_LOCKCTRL※	ECCKCPROT	CFCECCCTL(CL0)	CFCECCCTL(CL1)	CFCECCCTL(CL2)

*: These registers are restored to initial values only when the ICUM is enabled.

1.6 Schedule for Fixing the Problem

This problem will be fixed in the next version (V8.08.00) of CS+. (Scheduled to be released in July, 2022.)

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Apr.01.22	-	First edition issued

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