

[Notes]

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Rev.1.00

Apr. 01, 2019

CS+ Integrated Development Environment

Outline

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

1. Compile error generated when using a definition in the I/O header file for a special function register (IOR) having an alias with the same address

1. Compile Error Generated When Using a Definition in the I/O Header File for a Special Function Register (IOR) Having an Alias with the Same Address

1.1 Applicable Products

- CS+ Integrated Development Environment V7.00.00 to V8.00.00
- [Evaluation Software] CS+ for CC V7.00.00 to V8.00.00

1.2 Applicable MCUs

RH850 family MCUs that support CS+

1.3 Details

Unnecessary code is generated in the I/O header file for an IOR having an alias with the same address. A compile error may occur when coding with this unnecessary code.

Example of unnecessary code:

AAA.BBB.REGS8.BBBL.UNIT8

AAA.BBB.REGS8.BBBH.UNIT8

AAA: Module name, BBB: Register name, BBBL: Low-order 8 bits, BBBH: High-order 8 bits

1.4 Conditions

BBBL is converted to CCCL and BBBH to CCCH if both conditions (1) and (2) below are met.*
A compiler error results because CCCL and CCCH are not defined in the I/O header file.

*: #define applies to the symbol having the same address in the I/O header file as follows:

#define BBBL CCCL

#define BBBH CCCH

(1) BBBL and CCCL share the same address or BBBH and CCCH share the same address.

(2) BBBL or BBBH in (1) above is referenced or set.

Code description: AAA.BBB.REGS8.BBBL.UNIT8

: AAA.BBB.REGS8.BBBH.UNIT8

- Code description example for setting BBBL to 0x0

AAA.BBB.REGS8. BBBL.UNIT8 = 0x0;

- Code description example for setting BBBH to 0x0
AAA.BBB.REGS8. BBBH.UNIT8 = 0x0;

1.5 Workaround

Describe AAA.BBB.UINT8[L]; or AAA.BBB.UINT8[H]; as shown below.

- Code description example for setting BBBL to 0x0
AAA.BBB.UINT8[L] = 0x0;
- Code description example for setting BBBH to 0x0
AAA.BBB.UINT8[H] = 0x0;

1.6 Schedule for Fixing the Problem

No unnecessary code is generated in CS+ Integrated Development Environment V8.01.00.

Note that, even if an I/O header file created in CS+ V8.01.00 is used, a compile error occurs if the file contains a code description as shown below. In such a case, describe code as shown in section 1.5, Workaround.

- Code description example for setting BBBL to 0x0
AAA.BBB.REGS8. BBBL.UNIT8 = 0x0;
- Code description example for setting BBBH to 0x0
AAA.BBB.REGS8. BBBH.UNIT8 = 0x0;

Revision History

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

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