

[Notes]

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Rev.1.00

July 20, 2024

CS+ and e² studio Integrated Development Environments

(Note on the I/O Header File for the RX671 and RX26T Groups)

Outline

When using the CS+ and e² studio IDEs, note the following point.

1. Note on the I/O header file (iodefine.h) for the RX671 and RX26T groups of the RX family

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1.1 Applicable Products

CS+ for CC V8.06.00 and later versions

e² studio 2021-07 and later versions

1.2 Applicable Devices

RX family: RX671 and RX26T groups

1.3 Details

When a project for the RX671 group or RX26T group is to be generated by either of the applicable products, the generated I/O header file (iodefine.h) for the RX671 and RX26T groups has the following incorrect statements.

- The names of the members of the WORD and BYTE structures for the SPDR register of the RSPIA0 module are H and HH, respectively. However, they should be L and LL.

Wrong:

```
typedef struct st_rspia {
    union {
        unsigned long LONG;
        struct {
            unsigned short H;
        } WORD;
        struct {
            unsigned char HH;
        } BYTE;
    } SPDR;
```

Right:

```
typedef struct st_rspia {
union {
    unsigned long LONG;
    struct {
        unsigned short L;
    } WORD;
    struct {
        unsigned char LL;
    } BYTE;
    } SPDR;
```

1.4 Conditions

This error will occur when a project for the RX671 group or RX26T group is generated by either of the applicable products.

1.5 Workaround

Refer to the description in section 1.3 and rewrite the iodefine.h file accordingly. Otherwise, download the relevant file from the Web page for the [CS+](#) or [e² studio](#) IDE and substitute the iodefine.h file which is generated after the applicable file listed below has been unzipped for the file having the same name in the project that is in use.

There are two types of file, one for CC-RX and the other for GCC.

- rx671_iodefine_CCRX_GCCR_X_v1.00b.zip for RX671
rx671_iodefine_CCRX_v1.00b.h for CC-RX
rx671_iodefine_GCCR_X_v1.00b.h for GCC
- rx26t_iodefine_CCRX_GCCR_X_v1.10b.zip for RX26T
rx26t_iodefine_CCRX_v1.10b.h for CC-RX
rx26t_iodefine_GCCR_X_v1.10b.h for GCC

If you are using the Renesas Board Support Package (BSP) but you do not know the location of the I/O header file, refer to the following application note.

[RX Family Board Support Package Module Using Firmware Integration Technology](#)

1.6 Schedule for Fixing the Problem

The I/O header files included in the CS+ and e² studio IDEs are to be replaced in the versions which will be released on Jul. 22, 2024.

However, the I/O header file included in the Smart Configurator or BSP will be replaced in a later version.

If you will be using the Smart Configurator or BSP in creating a project, follow the instructions given in section 1.5, Workaround.

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Jul.20.24	-	First edition issued

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