When using the CC-RL C Compiler package for the RL78 Family, take note of the problem described in this note regarding the following point.

- Designating a member of a packed structure or union in an initializing declaration (CCRL#007)
  Note: The number which follows the description of the precautionary note is an identifying number for the precaution.

1. Applicable Products
   CC-RL V1.00.00 to V1.02.00

2. Description
   When packing of structures and unions is designated, the initializers of variable declarations for the members of structures or unions may lead to an error with the following code.
   - E0562332: Relocation value is odd number: "file"-"section"-"offset"

3. Conditions
   This problem may arise if both of the following conditions are met.
   (1) The -pack option is designated.
   (2) The initializer of a declaration of a structure or union member in an area having the static attribute includes the . operator to indicate the member.

Example: The -pack option is designated
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char c1;
struct _st1 {
   short s1;
} st1;

void func(void)
{  
    volatile short tmp = st1.s1; /* condition (2) */  
}

Example of output code:

.SECTION .textf,TEXTF
_func:
  .STACK _func = 6
  push hl
  movw ax, !LOWW(_st1) ; Access to an odd-numbered address
  movw [sp+0x00], ax
  pop hl
  ret
.SECTION .bss,BSS
_c1:
  .DS (1)
_st1:
  .DS (2)

4. Workaround
Separate the declaration and initializer of the member variable.

Example of the workaround:

void func(void)
{
    volatile short tmp; /* variable declaration */
    tmp = st1.s1;       /* initializer */
}

5. Schedule for Fixing the Problem
This problem will be fixed in the next version.

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