RENESAS Tool News

Note on Using the C Compiler Package for RL78 Family

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.

1. Assembly Statements Not in Accord with the Specification (CCRL#001)

Note: The number which follows the description of the precautionary note is an identifying number for the precaution.

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1. Assembly Statements Not in Accord with the Specification (CCRL#001)

1.1 Product Concerned
   CC-RL V1.01.00

1.2 Description
   An error in a formula for a statement where a formula can be used as an
   operand should normally be detected as an error, but might not be.
   The code generated as a result will not be as intended.
   Note that this does not apply to assembly instructions generated by the
   compiler.

1.3 Conditions
   This problem may arise when an operand that can take the form of a
   formula (note that this does not include a blank) is immediately
   followed by a string that satisfied any of conditions (1) to (4) below.

   (1) The formula includes any of the following characters.
       ;, *, /, +, -, <, >, !, &,], ", %, |, ^, ~

       Example of a statement satisfying the condition:

```
-----------------------------------------------
br      !+
-----------------------------------------------
```

(2) The formula includes any of the following two-letter strings.
&&, ==, <<, >>, (), ""

(3) The formula is a string which includes the letters or strings in (1)
or (2) enclosed in parentheses: ().

Example of a statement satisfying the condition:
```
-----------------------------------------------
add     A, #(&&)
-----------------------------------------------
```

(4) A separation operator, special operator, or section set operator is
applied to an empty term.

Example of a statement satisfying the condition:
```
-----------------------------------------------
add     A, #low()
-----------------------------------------------
```

1.4 Workaround
Correct the assembly statement.

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