

RENESAS TOOL NEWS on December 16, 2015: 151216/tn2

Note on Using the C Compiler Package for the RH850 Family

When using the CC-RH C Compiler package for the RH850 family, take note of the problem described in this note regarding the following point.

• External labels defined after conditional assembly control instructions (No. 7)

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

1. Applicable Products CC-RH V1.02.00 to V1.03.00

2. Description

When assembly source code includes a conditional assembly control instruction in a section for an uninitialized data area, the address of an external label which is defined after that might be incorrect.

3. Conditions

The problem arises when all conditions from (1) to (3) listed below are met.

- (1) A conditional assembly control instruction (*1) is used in a section(*2) for an uninitialized data area.
- (2) The label which is defined in the line following the conditional assembly control instruction in (1) is externally declared with a public or .extern directive.
- (3) A memory area is secured by a .ds directive on the same line as the label defined in (2).
- *1: \$ifdef, \$ifndef, \$if, \$ifn, \$elseif, \$elseifn, \$else, and \$endif
- *2: Sections having the bss, sbss, sbss23, tbss4, tbss5, tbss7, tbss8,

The label "label1" in the above example satisfies the conditions described in this note.

The correct offset from label 0 to label 1 is 10 bytes. However, the offset becomes 10+1=11-bytes, since the conditional assembly control instruction is incorrectly counted as 1- byte.

Since label2 does not satisfy condition (3), the offset from label0 is the correct 14 bytes.

4. Workaround

\$endif

If you use a .ds directive, place it in the line following the label.

Example of the workaround:
.....
label1:
.ds (4) ; Place the .ds directive in the line following label1
.....

5. Schedule for Fixing the Problem

This problem will be fixed in the next version.

be included. The URLs in the Tool News also may be subject to change or become invalid without prior notice.	
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