RENESAS Tool News

RENESAS TOOL NEWS [RSO-M3T-NC308WA_2-030501D]

A Note on Using C Compilers and Assemblers M3T-NC308WA, M3T-NC30WA, AS308, and AS30

Please take note of the following problem in using the M3T-NC308WA and M3T-NC30WA C compilers (with an assembler and integrated development environment), as well as the AS308 and AS30 assemblers:

• On the "MOVA" and "PUSHA" mnemonic instructions

1. **Products and Versions Concerned** C compilers:

M3T-NC308WA V.5.00 Release 1--V.5.10 Release 1 for the M32C/80 and M16C/80 series MCUs
M3T-NC30WA V.5.00 Release 1--V.5.10 Release 1 for the M16C/60, M16C/30, M16C/20, and M16C/10 series MCUs

Relocatable assemblers:

AS308 V.3.20 Release 1--V.3.30 Release 1 for the M32C/80 and M16C/80 series MCUs AS30 V.4.10 Release 1--V.4.20 Release 1 for the M16C/60, M16C/30, M16C/20, and M16C/10 series MCUs

2. Description

When a displacement value of zero is written to the operand (src) of a "MOVA" or "PUSHA" mnemonic instruction in address-register-relative addressing mode, either of the following error messages will appear at assembling, according to your assembler.

"Invalid operand(s) exist in instruction" in the AS308 "Operand type is not appropriate" in the AS30

3. Examples

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In the M32C/80 and M16C/80 series MCUs:

mova 0[A0],R2R0

pusha 0[A1]

In the M16C/60, M16C/30, M16C/20, and M16C/10 MCUs:

mova 0[A0],R0

pusha 0[A1]
```

4. Workaround

If the value of displacement is zero, add ":8" immediately after the value.

Modified Examples: In the M32C/80 and M16C/80 MCUs: mova 0:8[A0],R2R0 pusha 0:8[A1] In the M16C/60, M16C/30, M16C/20, and M16C/10 MCUs: mova 0:8[A0],R0 pusha 0:8[A1]

5. Schedule of Fixing the Problem

We plan to fix this problem in our next release of the products.

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