Old Company Name in Catalogs and Other Documents

On April 1st, 2010, NEC Electronics Corporation merged with Renesas Technology Corporation, and Renesas Electronics Corporation took over all the business of both companies. Therefore, although the old company name remains in this document, it is a valid Renesas Electronics document. We appreciate your understanding.

Renesas Electronics website: http://www.renesas.com

April 1st, 2010 Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (http://www.renesas.com)

Send any inquiries to http://www.renesas.com/inquiry.

REFIESAS TECHNICAL UPD

Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan RenesasTechnology Corp.

Category	User Development Environment		Document No.	TN-CSX-A083A/E	Rev.	1.0
Title	H8S, H8/300 Series Assembler V.6 bug information		Information Category	Technical Notification		
		Lot No.		H8S, H8/300 Series C/C++ C	C++ Com	oiler
Applicable Product	R0C40008XSW06R R0C40008XSS06R R0C40008XSH06R	Ver 6.0.01 Ver 6.0.02	Reference Document	Assembler Optimizing Linkage Editor User's Manual (REJ10B0058-0100H Rev.1.00)		
Problems wit	h the H8S, H8/300 series Assembler \	/er.6 are listed below	N.			
Please be ca	reful to use this version of the assemb	ler.				
This bug is fi	ked on Ver.6.0.03.					
	ructured assembly directive without siz	ze is in your prograr	n, (E)300 ILLEG	AL MNEMONIC is occur	rred.	
[Conditions	-					
-	m occurs if the following condition is s					
(T) A SITUCI	ured assembly directive without size is	s in your assembler	program.			
[Solutions]						
	m can be circumvented in either of the	e following ways:				
(1) Describ						
	e a branch size of DISPSIZE control ir	nstruction instead of	a size of structu	red assembly directive		
	e a branch size of DISPSIZE control in neither BR_RELATIVE nor OPTIMIZE		a size of structu	red assembly directive		
and select i			a size of structu	red assembly directive		
and select i Original:		option.	a size of structu	red assembly directive		
and select i Original:	neither BR_RELATIVE nor OPTIMIZE (R0LR1L) ;(E)300 ILLEGAL M add.w #1,r0	option.	a size of structu	red assembly directive		
and select r Original: .IF:16	neither BR_RELATIVE nor OPTIMIZE (R0LR1L) ;(E)300 ILLEGAL M add.w #1,r0	option. INEMONIC	a size of structu	red assembly directive		
and select r Original: .IF:16	Reither BR_RELATIVE nor OPTIMIZE (R0LR1L) ;(E)300 ILLEGAL M add.w #1,r0 :8 ;(E)300 ILL add.w #2,r0	option. INEMONIC		red assembly directive		
and select i Original: .IF:16 .ELSE	Reither BR_RELATIVE nor OPTIMIZE (R0LR1L) ;(E)300 ILLEGAL M add.w #1,r0 :8 ;(E)300 ILL add.w #2,r0	option. INEMONIC EGAL MNEMONIC		red assembly directive		
and select i Original: .IF:16 .ELSE .ENDI Modified:	Reither BR_RELATIVE nor OPTIMIZE (R0LR1L) ;(E)300 ILLEGAL M add.w #1,r0 :8 ;(E)300 ILL add.w #2,r0	option. INEMONIC EGAL MNEMONIC		red assembly directive		
and select i Original: .IF:16 .ELSE .ENDI Modified: .DISI .IF	PSIZE FBR=16 ;Added (R0LR1L) ;(E)300 ILLEGAL M add.w #1,r0 :8 ;(E)300 ILL add.w #2,r0 ;(E)631 EN ;Added (R0LR1L) ;Remove the bran	option. INEMONIC EGAL MNEMONIC		red assembly directive		
and select i Original: .IF:16 .ELSE .ENDI Modified: .DISI .IF	Reither BR_RELATIVE nor OPTIMIZE (R0LR1L) ;(E)300 ILLEGAL M add.w #1,r0 :8 ;(E)300 ILL add.w #2,r0 ;(E)631 EN PSIZE FBR=16 ;Added	option. INEMONIC EGAL MNEMONIC ID DIRECTIVE MISI		red assembly directive		
and select i Original: .IF:16 .ELSE .ENDI Modified: .DISI .IF	either BR_RELATIVE nor OPTIMIZE (R0LR1L) ;(E)300 ILLEGAL M add.w #1,r0 :8 ;(E)300 ILL add.w #2,r0 ;(E)631 EN PSIZE FBR=16 ;Added (R0LR1L) ;Remove the bran add.w #1,r0 PSIZE FBR=8 ;Added	option. INEMONIC EGAL MNEMONIC ID DIRECTIVE MISI	МАТСН	red assembly directive		
and select i Original: .IF:16 .ELSE .ENDI Modified: .DISI .IF a .DISI .ELS	either BR_RELATIVE nor OPTIMIZE (R0LR1L) ;(E)300 ILLEGAL M add.w #1,r0 :8 ;(E)300 ILL add.w #2,r0 ;(E)631 EN PSIZE FBR=16 ;Added (R0LR1L) ;Remove the bran add.w #1,r0 PSIZE FBR=8 ;Added	option. INEMONIC EGAL MNEMONIC ID DIRECTIVE MISI	МАТСН	red assembly directive		



(2) Describe the size description of structured assembly directive.

Original:

.IF:16 (R0LR1L) ;(E)300 ILLEGAL MNEMONIC

add.w #1,r0

.ENDI

Modified:

.IF.B:16 (R0LR1L) ; Added size description add.w #1,r0

.ENDI

Note: .ELSE, .CASE, .BREAK and .CONTINUE structured assembly directives do not have a size and use (1) workaround.

2) A no error of illegal delay slot instruction 1. Description

When delay slot instruction is not 1-word instruction, assemble error (E)150 INVALID DELAY SLOT INSTRUCTION

is not shown.

[Conditions]

This problem occurs if the following two conditions are satisfied:

(1)H8SXN, H8SXM, H8SXA or H8SXX is selected as CPU option.

(2)Delay instruction is not one-word instruction.

[Examples]

.import _a

.import _b

.SECTION P,CODE,ALIGN=2

L1:BRA/S L2 ;delay branch instruction MOV.L @_a,@_b ;delay slot instruction ;(8-byte length instruction) L2:

[Solution]

Check the delay slot instruction in your assembler program whether one-word instruction or not.

