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瑞萨电子公司网址: http://www.renesas.com

2010年4月1日 瑞萨电子公司

【发行】瑞萨电子公司(http://www.renesas.com)

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Trouble Shoot Document

RTSHCMCAN0017-0100 Rev.1.00

2009.06

R8C 2A/2B 系列浮点算法编译问题

适用范围:

文档适用于 Renesas R8C 2A/2B 系列或 ROM 超过 64Kbyte 的 R8C 系列微控制器。

问题:

当使用 R8C 2A/2B 系列 MCU 进行浮点数运算程序设计时,客户反应即使是基本的浮点运算,得到的结果都是错误的,因此怀疑是编译器问题导致程序执行错误。

分析:

在使用 R8C 2A/2B 系列 MCU 进行系统设计时,由于这个系列的 MCU 有些型号内部的 ROM 空间超过 64Kbyte,而通过 Hew 集成开发环境建立的工程有些默认的设置只能支持 64K 以内的 ROM 空间,因此,我们需要在 Hew 里面对 M16C Standard Toolchain 进行相关设置才能得到正确编译结果。

解决:

基于上述分析, 我们需要对 Renesas M16C Standard Toolchain 进行相关设置, 具体如下:

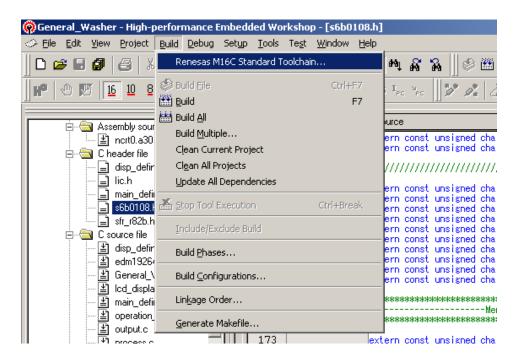
1, 在 HEW workspace 的菜单栏鼠标左键点击"Build", 然后选择"Renesas M16C Standard Toolchain..."进入 Toolchain 设定菜单;



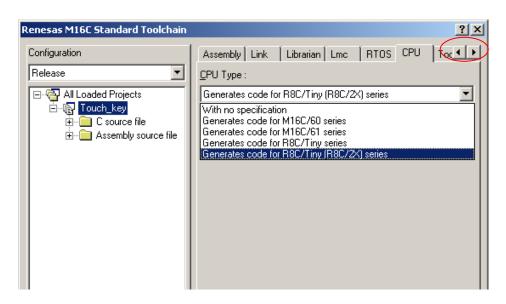
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2009.06



2,选择 "CPU"设定菜单,下拉 CPU 类型选择列表,然后选择 "Generates code for R8C/Tiny (R8C/2X) series。



3,选择"Link"设定菜单,在"Category"下拉选项当中选择"Input",然后在"Show Entries For"下拉选项中选择"Library files",最后确认 Library 显示窗口中显示的库是不是"nc30lib"。

Renesas Technology (Shanghai) Co., Ltd. Unit 205 AZIA Center, No1233 Lujiazui Ring Road, Pudong District, Shanghai, China

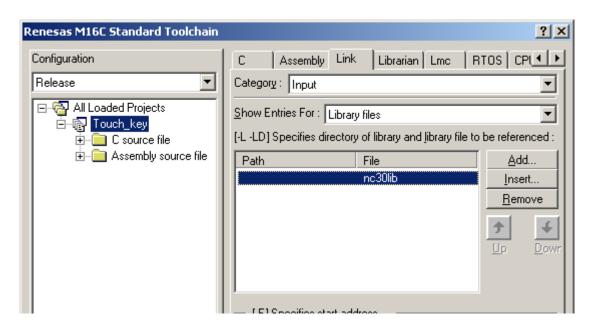
Tel: 021-68880556-320 Fax: 021-68880559 Zip: 200120



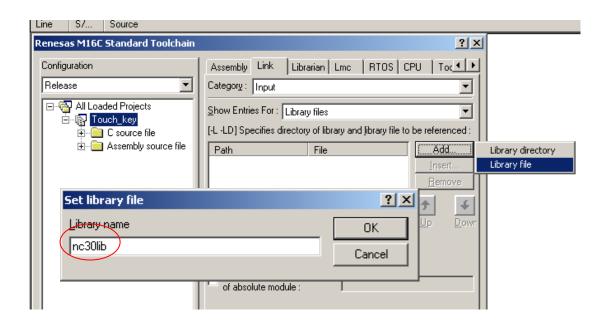
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4, 如果 Library 显示窗口中显示的库是不是 "nc30lib"而是 "r8clib",则先移除掉 "r8clib",然后选择添加"Library file";在跳出的"Set library file"窗口填写 "nc30lib"然后确认即可。



Renesas Technology (Shanghai) Co., Ltd.
Unit 205 AZIA Center, No1233 Lujiazui Ring Road, Pudong District, Shanghai, China

Tel: 021-68880556-320 Fax: 021-68880559 Zip: 200120