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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

RTSHCMCAN0016-0100 Rev.1.00

2009.06

子函数中变量定义超过255个字节时试编译出错

适用范围:

文档适用于 Renesas M16C, R8C 系列微控制器。

问题:

当基于瑞萨 M16C, R8C 系列微控制器进行 C语言应用程序设计时,如果在子函数中定义的变量超过 255 个字节,程序编译出错。

分析:

针对这种情况,问题的主要原因是子函数中定义的变量在函数调用时都是保存在堆栈中,而 NC30 编译器默认设置的在函数调用时使用的堆栈大上限为 255 个字节,因此, 当子函数中定义超过 255 个字节的变量时,编译会出错。

解决:

基于上述分析, 我们只需要对 NC30 编译器默认设置的函数调用时使用的堆栈上限修改即可, 具体做法如下:

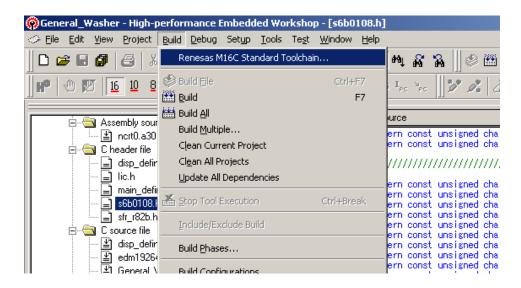
1, 在 HEW workspace 的菜单栏鼠标左键点击"Build", 然后选择"Renesas M16C Standard Toolchain..."进入 Toolchain 设定菜单;



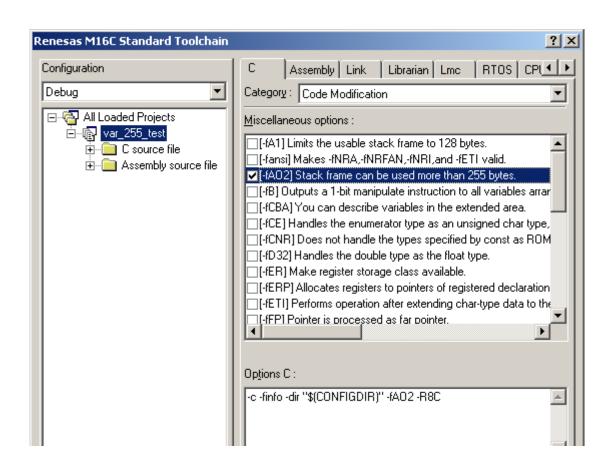
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2,选择 "C"设定菜单,下拉 "Category"选择列表,然后选择 "Code Modification",此时,在下面的 "Miscellaneous Option"窗口里可以看到 "[-AO2]"选项,在前面购选次选项即可。



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