

A Note on Using High-performance Embedded Workshop (IDE) --With Changing the Version of Your Toolchain to Another--

Please take note of the following problem in using High-performance Embedded Workshop:

- With changing the version of your toolchain to another

1. Description

If you change the version of your toolchain used for creating projects to another, the `-noinline` option, that has not been selected before, is automatically used, which may affect the code generated by the build.

2. Conditions

This problem occurs if you handle projects created by the C/C++ compiler package V.5 for the SuperH RISC engine family using the package V.6 or later.

Examples:

- (1) Consider the case where a change is made to the version of the toolchain used for creating a project where compiler option `-speed` has been selected. If no change were made, the selection of the `-speed` option would enable automatic inline expansion as well as when `-inline=20` selected. However, since a change has been made to the version of the toolchain, the automatically selected `-noinline` option disables automatic inline expansion.
- (2) Next, consider the case where a change is made to the version of the toolchain used for creating a project where compiler option `-speed` has not been selected. If you select the `-speed` option after this change, the `-noinline` option already selected automatically

disables automatic inline expansion. So remove -noinline to enable automatic inline expansion.

3. Workaround

When making a change to the version of your toolchain, remove the -noinline option if it affects the code generated. You are able to check for the settings of the options after making the change as follows:

- (1) Open the Build menu and select the SuperH RISC engine Standard Toolchain command to open the SuperH RISC engine Standard Toolchain dialog box.
- (2) Click the tabs of the compiler, assembler, linker, and so on; then select their options as you like.

4. Schedule of Fixing the Problem

We plan to fix this problem in the next release of the C/C++ compiler package for the SuperH RISC engine MCU family.

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