

High-performance Embedded Workshop Revised to V.4.05.00

We have revised High-performance Embedded Workshop from V.4.04.01 to V.4.05.00.

1. Products to Be Updated

High-performance Embedded Workshop V.3.00.00 through V.4.04.01

High-performance Embedded Workshop is bundled with the compilers and other software products that it manages.

To check to see the version number of your High-performance Embedded Workshop, open the Help menu and select the About High-performance Embedded Workshop command.

2. Descriptions of Revision

2.1 Functions Improved and Modified

(1) Making Builds

(a) Customization of linking order

- Linking order can be imported and exported.
- More than one file can be moved at a time by using the Linkage Order dialog box.
- The size of the Linkage Order dialog box is variable.

(b) Build of projects

When the dependencies of the child projects have been specified, the build of their parent project is prohibited if a build error arises in a child project.

(c) Custom project types

When you create a new project by selecting a custom project type, the build options and the settings of linking order are inherited from the selected project type to the newly created project.

(2) Saving information managed by High-performance Embedded Workshop

In Windows Vista(R), the Program Files directory is protected by user rights to ensure security and stability.

The information managed by High-performance Embedded Workshop has previously been saved by default on the directory where High-performance Embedded Workshop resides, which is under Program Files.

From now, the information is saved on the user profile directory so that the settings of High-performance Embedded Workshop environment information can be done account by account of the users who log on.

(3) Administering tools

As described in (2) above, the Program Files directory in Windows Vista(R) is protected by user rights to ensure security and stability. So the Uninstaller button in the Tools Administration dialog box has been removed in order that the files of the development tools that are installed by administrators under Program Files and managed by High-performance Embedded Workshop cannot be removed by using High-performance Embedded Workshop.

(4) Debugging target programs

(a) Introduced has been the option not to execute batch files even if the settings of executing batch files are done in the Debug Settings dialog box when modules are loaded. This option is effective when you right-click a module name in the Workspace window and click Download(debug Data Only).

(b) When you open the Debug menu and click Disconnect, the screens of all windows are maintained. So if you open the Debug menu and click Connect after having clicked Disconnect on the Debug menu, the screens of all windows before disconnected are restored.

(5) Synchronously debugging target programs between High-performance Embedded Workshop applications and between target platforms

(a) Synchronous-debugging functions between High-performance Embedded Workshop applications have been removed by eliminating the Launch Slave HEW command on the Tools menu and the Launch Slave HEW button on the standard toolbar.

(b) Synchronous-debugging functions between target platforms have also been removed by eliminating the Synchronized Debug tab in the Debug Sessions dialog box and the change_sub_session

command.

(6) The Command Line window

- (a) Step-execution of batch files supported: Batch files can be executed line by line.
- (b) Halting execution of batch files at breakpoints supported: Execution of batch files can be halted at the place where a breakpoint has been set.

(7) The Status window

The initial position where the Status window is displayed has been changed from the upper left of the Main window of High-performance Embedded Workshop to its lower left.

(8) The IO window

- (a) The selected I/O register can be displayed in the IO window.
- (b) The update of display in the IO window can be suppressed.
- (c) The search capability of the I/O register in the IO window has been supported.
- (d) When full module names are not displayed in the IO window, the full name of any module can be referred to in the pop-up window expanded by pausing the mouse pointer on a module name.

(9) The Image window

Changes have been made so that image data cannot be read when a workspace is opened.

(10) License Manager

The License Manager provides a simple way to configure and add licenses for Renesas toolchains which are based on the Sentinel(TM) RMS V.8.1 system.

When you select the "Europe or United States of America" region at the installation, you can use this feature.

Corresponding software:

All software tools under mass production that are corresponding to High-performance Embedded Workshop.

2.2 Functions Improved in Debuggers

The functions of debuggers managed by High-performance Embedded Workshop have also been improved as follows:

(1) The MR Analyze window (OS debug feature)

(a) The statistics of execution history can be saved on a file.

Corresponding debugger:

Simulator Debugger for M32C Series

M32C PC7501 Emulator Debugger

M32C PC4701 Emulator Debugger

Simulator Debugger for M16C Series and R8C Family

M16C R8C PC7501 Emulator Debugger

M16C PC4701 Emulator Debugger

(2) Coverage window

(a) The Code Coverage window

- When information about sessions is read, the option to read coverage information files is selectable.
- When the program is exited, the option to automatically calculate coverage ratio is selectable.
- In the Editor and Disassemble windows opened in Mixed or Disassemble mode, the column for displaying the result of code coverage has been introduced.
- The C0/C1 coverage ratio is presented in percentage with two decimal places.

(b) The Data Coverage window

The data coverage ratio is presented in percentage with two decimal places.

Corresponding debugger:

E100 Emulator Software

E200F Emulator Software

E6000H Emulator Software for AE-5 Series

E6000 Emulator Software for AE-4 Series

(3) The Realtime Profile window

(a) Double-clicking a function name in the window displays the source code of the function.

Corresponding debugger:

E100 Emulator Software

E200F Emulator Software

(4) The Watch functions

(a) The Watch window

- The destinations of referencing symbols can be specified scope by scope. The destinations that can be specified are the scopes referenced with the addresses pointed to by the program counter, the global symbols, and the static symbols

within each file.

This function is available when you open the Debug Settings dialog box and select Elf/Dwarf2 in the Debug format list.

- The names of registered symbols can be edited.
- The values of pointer variables can be edited.
- Within the same scope, the settings of the real-time updating functions are maintained when expansion of symbols is closed.
- Dragging a symbol into the Memory window easily switches the beginning address for displaying the Memory window to the address of the symbol.
- The option not to compare the address of a symbol with that of another has been introduced in the Test Support facility.
- The option to add timestamps to the information outputted into a file has been introduced in the recording history of updating values of registered symbols.

(b) Instant Watch

- The size of the Instant Watch dialog box is variable.

(c) The watch_display command

The Scope column has been introduced to display the results of execution of the command.

(d) The watch_record command

As a parameter of a timestamp, [] has been introduced.

Corresponding debugger:

Simulator Debugger for SuperH Family
Simulator Debugger for H8SX, H8S, and H8 Families
E10A-USB Emulator Software
E8a Emulator Software
E8 Emulator Software
E10T-USB Emulator Software
E100 Emulator Software
E200F Emulator Software
E6000H Emulator Software
E6000 Emulator Software

(5) The coverage command

(a) The coverage command

The initial value has been changed from Enable to Disable.

(b) The coverage_range command

The initial range has been changed from 00000000-00000000 to No Range.

Corresponding debugger:

Simulator Debugger for SuperH Family
Simulator Debugger for H8SX, H8S, and H8 Families

(6) The Trace window

- (a) The adjusting function between Branch trace (varies from one target MCU to MCU) allows the source code corresponding to the adjusted addresses to be displayed.

Corresponding debugger:

E10A-USB Emulator Software

E200F Emulator Software

2.3 Problems Fixed

The following known problems have been fixed:

(1) With setting breakpoints

This problem has been described in Item 3. (3) "Operation of tool products while Windows Aero used," in "Information on Compatibility of Renesas's Software Development Tool Products and Windows Vista (R), No. 2."

For details see RENESAS TOOL NEWS Document No. 070516/tn3, published on May 16, 2007, at:

<http://tool-support.renesas.com/eng/toolnews/070516/tn3.htm>

(2) With transferring load modules from PC to debugging platform

For details see RENESAS TOOL NEWS Document No. 080316/tn1, published on March 16, 2008, at:

<http://tool-support.renesas.com/eng/toolnews/080316/tn1.htm>

(3) On the function for tree view of source files displayed when debug-only project is used

For details see RENESAS TOOL NEWS Document No. 080916/tn1, published on September 16, 2008, at:

<http://tool-support.renesas.com/eng/toolnews/080916/tn1.htm>

(4) With searching more than one file for a character string

For details see RENESAS TOOL NEWS Document No. 081001/tn1, published on October 1, 2008, at:

<http://tool-support.renesas.com/eng/toolnews/081001/tn1.htm>

(5) With adding files to a project

For details see RENESAS TOOL NEWS Document No. 081001/tn2, published on October 1, 2008, at:

<http://tool-support.renesas.com/eng/toolnews/081001/tn2.htm>

(6) With referencing local variables

For details see RENESAS TOOL NEWS Document No. 081001/tn3, published on October 1, 2008, at:

<http://tool-support.renesas.com/eng/toolnews/081001/tn3.htm>

(7) With the order of loaded modules

For details see RENESAS TOOL NEWS Document No. 081016/tn2, published on October 16, 2008, at:

<http://tool-support.renesas.com/eng/toolnews/081016/tn2.htm>

(8) With loading modules when the IDE and the target platform linked
For details see RENESAS TOOL NEWS Document No. 081016/tn3,
published on October 16, 2008, at:

<http://tool-support.renesas.com/eng/toolnews/081016/tn3.htm>

(9) With the syntax of build options for custom build phases
For details see RENESAS TOOL NEWS Document No. 081016/tn4,
published on October 16, 2008, at:

<http://tool-support.renesas.com/eng/toolnews/081016/tn4.htm>

(10) With the build options for custom build phases after the version
of a toolchain has been changed
For details see RENESAS TOOL NEWS Document No. 081016/tn5,
published on October 16, 2008, at:

<http://tool-support.renesas.com/eng/toolnews/081016/tn5.htm>

3. How to Update Your Product

Online update is available free of charge. Use either of the following ways to update yours:

(1) Download the update program of the product from the Web site at:

http://www.renesas.com/hew_download

This site is opened from November 25 on.

(2) Use AutoUpdate Utility to obtain the update program and execute it.

This service is available on and after November 26.

NOTES:

Two types of update program are available. Use either of them as you like. They are as follows:

(a) Full update program

The components of High-performance Embedded Workshop to which changes have been made in and after V.3.00.00 are updated; that is, V.3.00.00 and later can be updated.

(b) Differential update program

The components of High-performance Embedded Workshop to which changes have been made in and after V.4.04.01 are updated; that is, V.4.04.01 and later can be updated.

4. Notices

(1) The above two types of update program do not update any components except those of High-performance Embedded Workshop itself (C compilers, emulator debuggers, and others not updated).

(2) If you are using any of the AutoUpdate Utility programs V.1.00.00 through V.1.03.00, begin to update yours to V.1.04.00 and then to

V.4.05.00. AutoUpdate Utility was revised to V.1.04.00 on July 1, 2007. For details of V.1.04.00, see RENESAS TOOL NEWS Document No. 070701/tn1 at:

<http://tool-support.renesas.com/eng/toolnews/070701/tn1.htm>

(3) Problem with uninstalling High-performance Embedded Workshop
V.4.05.00

When you are using Install Manager V.1.00.00 or V.1.02.00, you will not uninstall the High-performance Embedded Workshop updated by either of the above two update programs even if you select the IDE and click the Uninstall button.

Workaround:

To uninstall High-performance Embedded Workshop, perform the following steps:

- (a) In the upper list in the Maintenance window of Install Manager, select the High-performance Embedded Workshop to be uninstalled and then click the Switch active environment button.
- (b) Use Add/Remove Programs in Control Panel of Windows(R) and remove High-performance Embedded Workshop.

Schedule of fixing the problem:

We plan to fix this problem in the next version of Install Manager. To check to see the version number of your Install Manager, open the Maintenance window of Install Manager and then click the About Install Manager button.

If the About Install Manager button does not appear, your Install Manager is of V.1.00.00.

(4) Operations on Windows Vista(R)

- (a) Standard rights can run High-performance Embedded Workshop V.4.05.00 on Windows Vista(R).

However, run Manual navigator with administrative privileges.

- (b) The following problems in High-performance Embedded Workshop V.4.04.01 and earlier have been fixed:

- High-performance Embedded Workshop must be executed by administrators.
- With Windows Aero being enabled, software breakpoints cannot properly be set in the Editor and Disassemble windows.

- (c) Sharing projects through the network

In Windows Vista(R), network protection functionality is improved for security and stability. So the functions for sharing projects through the network cannot be used on Windows Vista(R).

NOTICE:

If you use your emulator debuggers and others in combination with High-performance Embedded Workshop V.4.05, they cannot run properly on Windows Vista(R). You need to use any of the compiler packages and emulator debuggers that will be released from now and supported by High-performance Embedded Workshop V.4.05. For compatibility of each tool product and Windows Vista(R), go to:
http://tool-support.renesas.com/eng/toolnews/p_tool.htm#environment

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