RENESAS Tool News

High-performance Embedded Workshop Revised to V.4.08.00

We have revised High-performance Embedded Workshop from V.4.07.00 to V.4.08.00. High-performance Embedded Workshop is bundled with the compilers and other software products that it manages. For its details see:

  https://www.renesas.com/hew

The above URL is one of our global sites.

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1. Product and Versions Concerned

High-performance Embedded Workshop V.3.00.00 through V.4.07.01

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 Improvements, Introduction, and Modification Made

The following improvements, introduction, and modification have been made.

(1) Improvements made to Watch functions

Improvements have been made to the Watch functions that are used when High-performance Embedded Workshop manages the following products:

 - E8a Emulator Software
 - E8 Emulator Software
 - E10A-USB Emulator Software
 - E10T-USB Emulator Software
 - E100 Emulator Software
 - E200F Emulator Software
 - E6000H Emulator Software
 - E6000 Emulator Software
 - Simulator debugger for the RX family
 - Simulator debugger for the SuperH family

- Simulator debugger for the H8SX, H8S, and H8 families

    The improvements made are as follows:
    (a) Four functions usable during execution of programs
        Four functions can be used in the Watch window during execution
        of programs. And these functions also can be used by executing
        their commands during execution of programs.
        The functions and commands are shown in the table below.

Function	Command
Registering global variables	WATCH_ADD
Deleting variables	WATCH_DELETE
Enabling/disabling the autoupdate function; Used only when you debug programs for which RAM monitoring can be set	WATCH_AUTO_UPDATE
Expanding/folding array-type or structure-type variables	WATCH_EXPAND

    (b) The scope-selecting function introduced when variables
        registered
        When you register a variable by using the variable-registering
        function in the Watch window or the WATCH_ADD command, a scope
        of the variable can be selected.

(2) Improvements made to Code Coverage functions
    Improvements have been made to the Code Coverage functions that are
    used when High-performance Embedded Workshop manages the following
    products:
     - E100 Emulator Software
     - E200F Emulator Software
     - AE-5 E6000H Emulator Software
     - AE-4 E6000 Emulator Software
    The improvements made are as follows:
    (a) Information about coverage measurement saved on files
        The following items of information can be saved on files:
         - Detailed information
           Information about the number of executed instructions,
           the total number of instructions, and others can be
           saved on files.
         - Disassembly code
           The disassembly code corresponding to addresses can be

saved on files.
(b) The Code Coverage window and the code coverage commands synchronized
The functions of the Code Coverage window and the code coverage commands have been synchronized with each other.
(c) The COVERAGE_DELETE command introduced
The command can delete the displayed area of code coverage address by address or file by file.
(d) The COVERAGE_DISPLAY command improved
The command can display the result of code coverage measurement sheet by sheet of the Code Coverage window.
(e) The COVERAGE_SAVE command improved
The command can save the result of code coverage measurement on a file sheet by sheet of the Code Coverage window.
(f) The COVERAGE_RANGE command improved
The command can display the area of code coverage measurement sheet by sheet of the Code Coverage window.

(3) Improvements made to the Data Coverage window
Information about the system stack has been displayed on Task Stack sheet when High-performance Embedded Workshop manages the E100 Emulator Software for the M16 series, and systems designed with either of the following real-time OSes are debugged:
- Real-time OS M3T-MR30/4 (for the M16C series and R8C family)
- Real-time OS M3T-MR30 (for the M16C series)
(4) Introduction of "Real-Time OS Aware Debugging"
The debugging functions for the following five real-time OSes have been introduced:
- M3T-MR30 (for the M16C series; published by Renesas)
- MR8C/4 (for the R8C family; published by Renesas)
- RTA-OSEK (for the SH-2A CPU core; published by ETAS)
- embOS (for the RX family; published by SEGGER)
(5) Modification made to the way of displaying flags in the Register window
Modification has been made to the way of displaying flags in the Register window that is used when High-performance Embedded Workshop manages the following product:
- Simulator debugger for the RX family
The modified way of displaying flags is as follows:
- The settings of the registers' flags are displayed by default.

2.2 Problems Fixed
The following known problems have been fixed:
(1) Limitation on saving memory content on a Motorola S-record format file

For details, see Article 4.1 (1) in RENESAS TOOL NEWS Document No.
091120/tn1 at:
https://www.renesas.com/search/keyword-search.html#genre=document&q=091120tn1
(2) With editing assembly-language code in either the Editor window
or the Disassembly window
For details, see RENESAS TOOL NEWS Document No. 100416/tn1 at:
https://www.renesas.com/search/keyword-search.html#genre=document&q=100416tn1
(3) With coverage rates calculated incorrectly in the Coverage window
and the Code Coverage window
For details, see RENESAS TOOL NEWS Document No. 100601/tn1 at:
https://www.renesas.com/search/keyword-search.html#genre=document&q=100601tn1

3. About Uninstalling and Then Installing High-performance Embedded
Workshop by Using Install Manager

When you uninstall and then install High-performance Embedded
Workshop by using Install Manager, two problems arise.
For details of the problems and their workarounds, see Section 4 in
RENESAS TOOL NEWS Document No. 091001/tn1 at:
https://www.renesas.com/search/keyword-search.html#genre=document&q=091001tn1_e

4. How to Update Your Products

Online update is available free of charge. Update yours in either of
the following ways:
(1) Use AutoUpdate Utility. This service is available on and after
July 6.
(2) Download the update program of the revised product from:
https://www.renesas.com/hew_download
Then execute it. This site will be opened from July 5 on.
The above URL is one of our global sites.

NOTES:
Two types of update program are available. Use either of them
as necessary. 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 through V.4.07.01 can be updated.
(b) Differential update program
The components of High-performance Embedded Workshop to which
changes have been made in and after V.4.07.00 are updated;
that is, V.4.07.00 and V.4.07.01 can be updated.

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