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740 Compact Emulator Debugger V.1.02.00

Release Notes

This document describes the notes of this debugger, and please read before you start to use this debugger.

And also, please refer to the “High-performance Embedded Workshop Release Notes” about the notes of High-performance Embedded Workshop IDE.

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1 Notes

1.1 Line Assembly

Regardless of the Radix setting, the default for line assembly input is decimal. Specify H as the radix for a hexadecimal input.

1.2 Trace

1. Specifying function in SRC mode
In the SRC mode, when you specify a function to display it, if the current displayed source file includes the function, the top of the source file will be displayed.
2. Saving of tracing result in text
When you save a tracing result in text with only "BUS" and "DATA" buttons ON, the vertical position of some headers will shift from the corresponding data. Check "Tab Separated Format" and open it with spreadsheet applications to display them correctly.
3. Loading the trace image file
Trace window can not load the trace image file saved by PDxx debuggers. And also, trace window can not load the trace image file saved by the different target from the current target.

1.3 RAM Monitor

1. Proportional Fonts
When a proportional font is selected, a part of the characters in the view may be hidden. Fixed fonts are recommended.

1.4 Memory

1. 8 bytes data operations
To set, fill, and copy 8 bytes data are not supported.

1.5 Script

1. Result of interactive command
When you invoke an interactive command, for example, Assemble and setMemoryByte, the running dialog box will appear and may hide the view of the results.

1.6 Macro recording function

The debug windows which support the macro recording function are memory, registers, and IO. And also, the debug operations which support this are Reset CPU, Go, Reset Go, Go To Cursor, Step In, Step Over, Step Out, Add/Delete a break point, and Download the target program.

1.7 Test facility function

The contents to be compared by the test facility functions are memory, registers, I/O, Output, and stack trace window.

1.8 Using cast operators for the member variable

When you use cast operators for the member variable to refer to it as the pointer of the structure, you would not refer to it correctly.

1.9 Download module dialog box

This debugger does not support the setting of "Offset", "Memory verify on download", and "Access Size" in the download module setting dialog box. These are always treated as "Offset: 0", "Memory verify: off", and "Access Size: 1".

1.10 Real-time execution of the target program

If the following operations are invoked while the target program is running, the real-time execution capability will be lost.

- Dump memory
 - update the display of Memory Window
 - update the display of ASM Watch Window or C Watch Window
 - update the display of Source Window (DIS or MIX mode)

- display the value of variables in Source Window
- Clear access history in RAM Monitor Window
- Change the ram monitor area in RAM Monitor Window
- Add or remove software break points
- Change the status of hardware break points
- Get the trace information forcibly or re-start recording the trace information in Trace Window

1.11 Notes on Debugging (740 Compact Emulator Debugger)

1.11.1 About the program that exceeds the address space of 64 Kbyte

740 emulator debugger doesn't correspond to the program that exceeds 64 Kbyte that ICC740 generated.

2 System Requirements

2.1 740 Compact Emulator Debugger

Target host PC	
PC	IBM PC/AT compatible with Pentium III 600MHz or higher
OS	Windows XP Windows 2000 Windows Me Windows 98 Second Edition
Memory	128MB (ten times the size of the target load module file recommended)
HDD	Hard disk available capacity for installation: 100MB or more. Prepare an area at least double the memory capacity (four-times or more recommended) as the swap area.
Display Resolution	1024 x 768 or higher recommended

Emulator
M38000T2-CPE

3 Version Report

This section describes the specification of the changed software.

3.1 740 Compact Emulator Debugger V.1.02.00

In this version, the following specifications were changed from the previous version 740 Compact Emulator Debugger V.1.00.00.

This version supports all of the function extensions and the revisions to the restrictions in the High-performance Embedded Workshop V.4.01.00 and V.4.01.01. For more details, please refer to RENESAS TOOL NEWS “060701/tn1” issued on July 1, 2006 and “060801/tn1” issued on August 1, 2006.

3.1.1 Revisions to Restrictions

1. A limitation has been corrected: The structure member variables, union member variables, or class member variables whose name begins with a letter of ‘e’ or ‘E’ immediately followed by a numeral, are not referenced.

For more details, refer to the RENESAS TOOL NEWS RSO-M3T-PD32RM-060116D issued on January 16, 2006.

3.1.2 Functional Extensions and Modifications

1. These commands, which can be invoked in Command Line, have been supported:
breakpoint, breakpoint_disable, breakpoint_display, breakpoint_clear
register_display, register_set
disassemble, assemble