

RENESAS TOOL NEWS on August 16, 2007: 070816/tn2

## E8 Emulator Software Revised to V.2.10 Release 00

We have revised the emulator software for the E8 on-chip debugging emulator from V.2.09 Release 02 to V.2.10 Release 00. (The emulator software and the E8 emulator are used to emulate the systems designed with MCUs of the M16C and H8 families.)

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### 1. Descriptions of Revision

#### 1.1 Emulator Debuggers Revised

E8 Emulator Software V.2.10 Release 00 includes the following revised debuggers:

- R8C/Tiny E8 emulator debugger V.2.06.00
- M16C/Tiny, M16C/62P E8 emulator debugger V.2.02.00
- M32C/80 E8 emulator debugger V.2.02.00
- H8/300H Tiny, H8/300H Super Low Power, H8/300L Super Low Power E8 emulator debugger V.1.05.00

#### 1.2 Supported MCUs Increased

The following MCUs have been added to the support line:

(1) In the R8C/Tiny series

- R5F2120A and R5F2120C (R8C/20 group)
- R5F2121A and R5F2121C (R8C/21 group)
- R5F2122A and R5F2122C (R8C/22 group)
- R5F2123A and R5F2123C (R8C/23 group)
- R5F212AA and R5F212AC (R8C/2A group)
- R5F212BA and R5F212BC (R8C/2B group)
- R5F212CA and R5F212CC (R8C/2C group)
- R5F212DA and R5F212DC (R8C/2D group)

(2) In the M16C/60 series

- M306S0FA (M16C/6S group)

(3) In the H8/300H Tiny series

- H8/36079F (H8/36079 group)

## **1.3 Functions Improved and Introduced**

### **1.3.1 In the R8C/Tiny E8; the M16C/Tiny, M16C/62P E8; and M32C/80 E8 Emulator Debuggers**

- (1) The method for selecting a target MCU improved  
Up to now, all the names of the supported MCUs have been provided in the Device drop-down list of the Emulator Setting dialog box. From now on, only the MCUs belonging to the group selected in the MCU Group drop-down list will be shown in the Device drop-down list. This change enables you to select the target MCU easier.
- (2) Event break points can be set during execution of the program.
- (3) The procedure for setting an event break point can be recorded as a macro.
- (4) The Debugging of CPU rewrite mode, dedicated to debugging programs that use the CPU rewrite mode has been introduced. You are able to select this mode in the Emulator Setting dialog box, which opens when the debugger invoked.
- (5) The "Start/Stop Function" capability has been introduced. This capability performs or executes the selected function or subroutine out of the user program immediately before starting or after halting the program. So using this capability allows you to automatically perform the processing that stops and restarts functions at any break points.

Note that some limitations are imposed on the selectable subroutines and functions MCU by MCU. If you neglect these limitations, your emulator may fall into malfunction. So be sure to read through the user's manual of the latest version of the E8 emulator, which is going to be released on our Web site on August 22.

<http://www.renesas.com/e8> -> Documentation

- (6) When you invoke the E8 emulator debugger for the first time after installing it, the Driver Details dialog box is prohibited opening.

### **1.3.2 In the H8/300H Tiny, H8/300H Super Low Power, H8/300L Super Low Power E8 Emulator Debugger**

- (1) The problem with debugging target systems designed with the H8/38704F MCU has been fixed. For details, see RENESAS TOOL NEWS Document No. 070401/tn5 at <http://tool-support.renesas.com/eng/toolnews/070401/tn5.htm>
- (2) The procedure for setting an event break point can be recorded

as a macro.

(3) When any of the following MCUs that can be started by the on-chip oscillator is targeted, the System Clock dialog box will not be displayed:

H8/36902F, H8/36912F, H8/36077F,  
H8/36079F, H8/36094F, and H8/36109F

## 2. How to Update Your Product

Free-of-charge online update is available.

Use AutoUpdate Utility or download the update program from the Web site at

[http://www.renesas.com/e8\\_download](http://www.renesas.com/e8_download)  
and install it.

You are able to use AutoUpdate Utility and the Web site on and after August 23 and August 22 respectively.

### Notices:

1. You can select an update program out of two: the full-package and the debugger-package edition. The former contains a full set of the emulator debuggers for the E8 emulator, High-performance Embedded Workshop, the evaluation version of the C compiler package, the user's manual, and AutoUpdate utility. On the other hand, the latter contains the emulator debuggers for the E8 emulator and High-performance Embedded Workshop only.
2. If the update program is installed in the system where High-performance Embedded Workshop V.4.01.01 or earlier resides, it will be upgraded to V.4.02.00.

### Attention:

Change in Download Function and Product Information Pages

Since June 1st, 2007, download data and product information have only been updated on the Renesas global web site (<http://www.renesas.com/homepage.jsp>), not our regional web sites. For the latest versions of download data and product information, please visit our global web site.

This is a temporary situation and regional web sites will be updated once again by the end of August.

Technical documentation and Tool News newsletter are not effected by this temporary situation and you can still find the latest support information on both our regional and global web sites.

Thank you for your understanding.

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