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A Note on Using E8a Emulator Software and E8 Emulator Software

Please take note of the following problem in using E8a Emulator Software and E8 Emulator Software:

- With executing commands for Memory Space Expansion Function 4MB Mode
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1. Products and Versions Concerned

- (1) E8a Emulator Software
V.1.00 Release 00 through V.1.03 Release 03
- (2) E8 Emulator Software
V.2.08 Release 00 through V.2.12 Release 00

2. Description

If you execute any of the commands for Memory Space Expansion Function 4MB Mode in either M16C E8a Emulator Debugger or M16C/Tiny, M16C/62P E8 Emulator Debugger (which are included in the products and versions concerned), you may not correctly reference and modify the expanded area. Those commands are as follows:

- Memory_Compare_Ext
- Memory_Display_Ext
- Memory_Fill_Ext
- Memory_Find_Ext
- Memory_Move_Ext

3. Conditions

This problem arises if the following conditions are all satisfied:

- (1) The target MCU belongs to any of the following groups, M16C/60 series of MCUs:
M16C/62P, M16C/63, M16C/64, M16C/64A, and M16C/65
- (2) Memory Space Expansion Function 4MB Mode is used.
- (3) The offset bit (bit 2) of the data bank register (DBR) is set to 1.

- (4) Any of the commands for Memory Space Expansion Function 4MB Mode is executed. (For the commands, see Section 2.)
- (5) The offset value is set to 0 by the parameter of the command in (4).

4. Workaround

To avoid this problem, follow these steps:

- (1) Clear the offset bit of the data bank register to 0 and then execute the command in 3-(4).
- (2) After executing the command, set the offset bit to the value before it is cleared to 0.

5. Schedule of Fixing the Problem

For E8a Emulator Software, we plan to fix this problem in the next release.

Note : This problem has not been fixed in V.1.03 Release 04 released on March 19, 2010 yet.

For E8 Emulator Software, we have no plan to fix the problem.

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