

A Note on Using the Full-Feature Emulator PC7501

Please take note of the following problem in using the full-feature emulator PC7501, which is used for the M16C family of MCUs:

- On using the coverage measurement utility

1. Product Concerned

The full-feature emulator PC7501

This emulator is used for the M16C family in combination with any one of the following emulation probes:

M30830T-EPB	for the M32C/81, M32C/82, and M32C/83 groups
M30850T-EPB	for the M32C/80, M32C/84, M32C/85, and M32C/86 groups
M30870T-EPB	for the M32C/87 group
M30880T-EPB	for the M32C/88 group
M3070JT-EPB	for the M30700FJLGP MCU, M16C/70 group
M3070KT-EPB	for the M30700FKLGP MCU, M16C/70 group
M3062PT2-EPB	for the M16C/62P and M16C/30P groups
M306V8T-EPB	for the M306V8 MCU, M16C/6V group
M306NKT-EPB	for the M16C/6N4, M16C/6N5, M16C/6NK, M16C/6NL, M16C/6NM, and M16C/6NN MCUs, 16C/6N group
M30290T-EPB	for the M16C/Tiny series

R0E521000EPB00	for the R8C/Tiny series
M30700T-EPB	for the M16C/70 group; spare and repair only
M3062PT-EPB	for the M16C/62P and M16C/30P groups; spare and repair only
M306N4T-EPB	for the M16C/6N4 and M16C/6N5 MCUs, M16C/6N group; spare and repair only

2. Description

If such operations are performed during execution of the target program as those coming with accesses (references or modifications) to a memory area that is not accessed by the target program through the debugger, the area accessed through the debugger will affect the result of the coverage measurement. Note, however, that this is not the case where accesses through the debugger are made while the target program is halted.

Examples are described below.

- (1) When the display mode of the Editor (Program) window is changed from Source to Disassembly or MIX during execution of the target program, the area displayed in the window is assumed to be an accessed area even if it is not accessed by the target program.
- (2) When the display area in the Memory window is modified during execution of the target program, the modified area is assumed to be an accessed area even if it is not accessed by the target program.
- (3) When the FILL or DUMP command is executed in the Script window during execution of the target program, the area accessed by the FILL or DUMP command is assumed to be an accessed area even if it is not accessed by the target program.

3. Workaround

When using the coverage measurement utility, do not perform any operations that come with accesses to memory areas during execution of the target program.

4. Schedule of Fixing the Problem

We plan to fix this problem in the next release of the M16C R8C PC7501 and the M32C PC7501 emulator debugger.

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