

RENESAS TOOL NEWS on March 5, 2009: 090305/tn1

A Note on Using Flash Development Toolkit V.4.03 Release 00

Please take note of the problem described below in using Flash Development Toolkit V.4.03 Release 00.

1. Product and Version Concerned

Flash Development Toolkit V.4.03 Release 00

2. MCUs Involved

(1) In SuperH RISC engine family

SH72546RFCC, SH72544RF, and SH72543RF

(2) In H8S/2400 series, H8S family

H8S/2472F, H8S/2463F, H8S/2462F, H8S/2456F, H8S/2454F, H8S/2426F, and H8S/2424F

(3) In H8S/Tiny series, H8S family

H8S/20223F, H8S/20222F, H8S/20203F, H8S/20202F, H8S/20103F, and H8S/20102F

(4) In R32C/100 series, M16C family

R5F64573 (R32C/157 group);
R5F64563 (R32C/156 group);
R5F64535 (R32C/153 group);
R5F64525 (R32C/152 group);
R5F64515 (R32C/151 group);
R5F64213 (R32C/121 group);
R5F64201 (R32C/120 group);
R5F64189, R5F64188, and R5F64187 (R32C/118 group);
R5F64179, R5F64178, R5F64177, and R5F64176 (R32C/117 group);
R5F64169, R5F64168, R5F64167, and R5F64166 (R32C/116 group); and
R5F64116, R5F64115, R5F64114, R5F64112, R5F64111, and R5F64110

(R32C/111 group)

(5) M32C/80 series, M16C family

M308B8FG and M308B6FG (M32C/8B group);
M30882FW, M30882FJ, M30882FH, M30880FW, M30880FJ, and M30880FH
(M32C/88 group);
M3087BFL, M3087BFK, M30879FL, M30879FK, M30878FJ, M30876FJ,
M30875FH, and M30873FH (M32C/87 group);
M30865FJ (M32C/86 group);
M30855FW, M30855FJ, M30855FH, M30853FW, M30853FJ, M30853FH,
M30852FJ, and M30850FJ (M32C/85 group); and
M30845FW, M30845FJ, M30845FH, M30843FW, M30843FJ, and M30843FH
(M32C/84 group)

(6) In M16C/60 series, M16C family

M306NNFJ and M306NNFH (M16C/6NN group);
M306NMFJ and M306NMFH (M16C/NM group);
M306NLFJ and M306NLFH (M16C/NL group);
M306NKFJ and M306NKFH (M16C/NK group);
M306N5FC (M16C/6N5 group);
M306N4FG and M306N4FC (M16C/6N4 group);
R5F3640M and R5F3640D (M16C/64 group); and
M3062LFGP, M3062JFH, M3062CF8, M3062AFC, M30627FJP, M30627FHP,
M30626FJP, M30626FHP, M30625FGP, M30624FGP, M30623F8P,
M30622F8P, M30621FCP, and M30620FCP (M16C/62P group)

(7) In M16C/30 series, M16C family

M30302FEP, M30302FCP, and M30302FAP (M16C/30P group)

(8) In M16C/Tiny series, M16C family

M30291FC, M30291FA, M30290FC, and M30290FA (M16C/29 group);
M30281FC, M30281FA, M30281F8, M30281F6, M30280FC, M30280FA,
M30280F8, and M30280F6 (M16C/28 group); and
M30263F8B, M30263F8A, M30263F6A, M30263F3A, M30260F8B,
M30260F8A, M30260F6A, and M30260F3A (M16C/26A group)

(9) In R8C/3x series, R8C family

R5F21356A, R5F21355A, and R5F21354A (R8C/35A group);
R5F21336A, R5F21335A, R5F21334A, R5F21332A, and R5F21331A
(R8C/33A group); and
R5F21324A, R5F21322A, and R5F21321A (R8C/32A group)

(10) In R8C/2x series, R8C family

R5F212L4 and R5F212L2 (R8C/2L group);
R5F212F4 and R5F212F2 (R8C/2F group);
R5F212DC, R5F212DA, R5F212D8, and R5F212D7 (R8C/2D group);
R5F212BC, R5F212BA, R5F212B8, and R5F212B7 (R8C/2B group);
R5F21296, R5F21294, and R5F21292 (R8C/29 group);
R5F21276, R5F21275, R5F21274, and R5F21272 (R8C/27 group);
R5F21258, R5F21257, R5F21256, R5F21255, and R5F21254
(R8C/25 group);
R5F2123C, R5F2123A, R5F21238, R5F21237, and R5F21236
(R8C/23 group); and
R5F2121C, R5F2121A, R5F21218, R5F21217, and R5F21216
(R8C/21 group)

(11) In R8C/1x series, R8C family

R5F211B4, R5F211B3, R5F211B2, and R5F211B1 (R8C/1B group);
R5F21194, R5F21193, R5F21192, and R5F21191 (R8C/19 group);
R5F21174, R5F21173, and R5F21172 (R8C/17 group);
R5F21154, R5F21153, and R5F21152 (R8C/15 group);
R5F21134, R5F21133, and R5F21132 (R8C/13 group); and
R5F21124, R5F21123, and R5F21122 (R8C/12 group)

(12) In 740 family

M37542F4 and M37542F8 (7542 group);
M38D59FF (38D5 group);
M38D29FF (38D2 group);
M38049FFL (3804L group);
M38049FFH (3804H group);
M38039FFL (3803L group); and
M38039FFH (3803H group)

3. Problem

If "Readback Verify" and "Request Checksum" are executed successively after the flash ROM of the device is programmed, the active window of Flash Development Toolkit disappears after checksum is complete, and Toolkit will close itself.

Note, however, that though Flash Development Toolkit is exited, the programming of the flash ROM, and "Readback Verify" and "Request Checksum" have been performed properly.

4. Conditions

4.1 In the MCUs Listed in 2-(4) Above (R32C/100 Series)

This problem arises if "Readback Verify" and "Request Checksum" are

executed successively after any of the following areas of the flash ROM is programmed:

- (1) The user area only
- (2) The data flash area only
- (3) The user and data flash areas only

Note, however, that this problem does not arise if the three areas of user, data flash, and E2 data flash are programmed.

4.2 In All the MCUs Listed Above Except Those of the R32C/100 Series

This problem arises if "Readback Verify" and "Request Checksum" are executed successively after the user areas only is programmed.

However, this problem does not arise if the user and data flash areas are both programmed.

5. Workarounds

Avoid this problem in either of the following ways:

- (1) If you program the areas of the flash ROM involved in the above conditions, verify the programmed ROM by executing either "Readback Verify" or "Request Checksum."
- (2) Program any areas of the flash ROM except those involved in the above conditions; then execute "Readback Verify" and "Request Checksum."

6. Interim Measure

If you program any devices supported by Flash Development Toolkit V.4.02 Release 01, use this version.

The devices supported by V.4.02 Release 01 are listed here.

The evaluation software of Flash Development Toolkit V.4.02 Release 01 can be downloaded from:

http://www.renesas.com/fdt_download

The above URL is that of our global site (in English).

7. Schedule of Fixing the Problem

We plan to fix this problem in Flash Development Toolkit V.4.03 Release 01 (to be released on March 31, 2009).

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