RENESAS Tool News

Flash Development Toolkit Revised to V.4.07 Release 00

We have revised Flash Development Toolkit from V.4.06 Release 01 to V.4.07 Release 00.
This product is used to program the flash ROMs of MCUs in the SuperH RISC engine, RX, M16C, H8SX, H8S, H8, R8C, and 740 families.

1. Descriptions of Revision

1.1 Supported MCUs Increased

The following MCUs have been added to the support line:

(1) In the SuperH RISC engine family
   - SH72533RFCC and SH72533F

   The flash ROMs of these MCUs are programmable via the RS-232C cable
   or the E8a emulator.

(2) In the M16C/60 series, M16C family
   - R5F36506C, R5F3650EC, and R5F3651EC (M16C/65C group)
   - R5F36406C and R5F3640EC (M16C/64C group)

   The flash ROMs of these MCUs are programmable via the RS-232C cable
   or the E8a emulator. For the E8a, the 7-wired programming or the
   single-wired programming method of these MCUs is used.
   To program a flash ROM, be sure to select the programming mode
   of the flash ROM as follows:
   - Standard I/O mode 2 for the RS-232C cable
   - Standard I/O mode 1 for the E8a emulator in the 7-wired
     programming
   - Standard I/O mode 3 for the E8a emulator in the single-wired
     programming

(3) In the R8C/Lx and R8C/3x series, R8C family
   - R5F2LA52A, R5F2LA54A, R5F2LA56A, and R5F2LA58A (R8C/LA5A group)
   - R5F2LA32A, R5F2LA34A, R5F2L36A, and R5F2LA38A (R8C/LA3A group)
   - R5F213M6U, R5F213M8U, and R5F213MCU (R8C/3MU group)
   - R5F213M8K, and R5F213MCK (R8C/3MK group)
   - R5F21346U, R5F21348U, and R5F2134CU (R8C/34U group)
   - R5F21346R (R8C/34R group)

- R5F21346P (R8C/34P group)
- R5F21348K, and R5F2134CK (R8C/34K group)
- R5F21334H and R5F21336H (R8C/33H group)
- R5F21334G and R5F21336G (R8C/33G group)
- R5F21324H and R5F21326H (R8C/32H group)
- R5F21324G and R5F21326G (R8C/32G group)

The flash ROMs of these MCUs are programmable via the RS-232C cable or the E8a emulator.

1.2 Supported Programming Interfaces Increased

The following two programming interfaces have been added to the support line:

(1) The emulator-mode interface of the E8a emulator for programming the flash ROM of the following MCU:
- H8/3687F (H8 family)

The boot-mode interface of the E8a emulator is already supported for the flash ROM of the above MCU.

(2) The RS-232C cable for programming the flash ROM of the following MCU:
- M3030SFDP (M16C/30P group, M16C family)

The E8a emulator in the 7-wired programming is already supported for the flash ROM of the above MCU.

1.3 Functions Improved and Introduced

The following two functions have been improved and introduced:

(1) Saving files in the Hex Editor window (improved)

In the previous versions, text-based files written in the S-Record format or the DDI format have been saved by default in uppercase except for record lengths, which are in lowercase.

In the revised edition, record lengths are also saved in uppercase.

So, the files written in the S-Record format or the DDI format are saved according to the following specifications:
- Record type: uppercase
- Record length: uppercase or lowercase (See NOTE.)
- Address: uppercase
- Data: uppercase or lowercase (See NOTE.)
- Checksum: uppercase or lowercase (See NOTE.)

NOTE: Saved in uppercase by default; to save these in lowercase, type [ECXSRecordView] and LowerCaseSRecordSave=1 into the FDT.ini file.

(2) Checking for shortage of flash ROM capacity (introduced)

If the capacity of flash ROM is smaller than the size of your

program written into the ROM, a dialog box is displayed which asks you whether to continue or discontinue the writing.

1.4 Compatibility with 64-Bit Edition of Windows(R) 7

The revised version is compatible with the 64-bit edition of Windows(R) 7 in addition to the 32-bit edition.

2. Problems Fixed

The following known problems have been fixed:
(1) With using the Request Checksum and Readback Verify options
   For details, see:
      http://tool-support.renesas.com/eng/toolnews/101129/tn1.htm
(2) With successively programming flash memory by using the E8a
   in the E8aDirect mode
   For details, see:
      http://tool-support.renesas.com/eng/toolnews/101129/tn2.htm
(3) With programming data flash areas
   For details, see:
      http://tool-support.renesas.com/eng/toolnews/101129/tn4.htm

3. How to Update Your Product

If you are using Flash Development Toolkit V.4, online update is available free of charge. Update yours in either of the following ways:
(1) Use AutoUpdate Utility. This service will be available on and after March 17.
(2) Download the update program of the product from
      http://www.renesas.com/fdt_download
   and then execute it.
   The update program will be published on this Web site from March 14.
   The above URL is one of our global sites.

4. First Ordering

When you place an order for the product, supply the following items of information to your local Renesas Electronics sales office or distributor:

   Product type: Flash Development Toolkit
   Type name: R0C00000FDW04R
   Host OS: Windows(R) 7, Windows Vista(R), or Windows(R) XP

      NOTICE: The 64-bit editions of Windows Vista(R) and
            Windows(R) XP are excluded.

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