# RENESAS Tool News

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# Note on Using Emulator Debuggers for E1, E20, and E30A Emulators

When using the E1, E20, and E30A emulators, take note of the following problem:

- With loading programs and data on external flash memory

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### 1. Products Concerned

- E1/E20 Emulator Debugger for RX family included in CubeSuite+ V.1.01.00
- RX E1/E20 Emulator Debugger V.1.00.00 through V.1.02.00
  (for High-performance Embedded Workshop)
- R32C E30A Emulator Debugger V.1.02.00
  (for High-performance Embedded Workshop)

### 2. Descriptions

(1) If the command description of an automatically executed script that
   is registered on External Flash Definition Editor satisfies
   either of the following conditions, the emulator debugger is
   abnormally terminated when data or programs are loaded on external
   flash memory:
   - Between parameters of the MF (MEMORY_FILL) command exist two
     or more spaces or tab stops.
   - The start address, end address, and fill data in parameter
     of the MF command are omitted.
(2) If the command description of an automatically executed script that
   is registered on External Flash Definition Editor satisfies
   the following condition, the loading of programs and data onto the
   external flash memory is not completed and the debugger cannot
   be exited.

- The value of the start address in the parameter of the MF command
  is greater than that of the end address.

The types of automatically executed scripts registered on
External Flash Definition Editor are as follows:
  - Pre-download execution script
  - Post-download execution script
  - External RAM pre-use execution script
  - External RAM post-use execution script
The command format supported by the above scripts is shown below.
        MF <start> <end> <data> [<mode>]
           start: start address
           end:   end address
           data:  fill data
           mode:  [BYTE], [WORD], or [LONG].
                 If omitted, it is assumed to be [BYTE].


## 3. Workaround

To avoid this problem, describe the command of an automatically executed
script registered on External Flash Definition Editor in such
a way that the following conditions are all satisfied:
(1) Between parameters of the MF command exists one space or tab stop
    only.
(2) The start address, end address, and fill data in parameter of the MF
    command are not omitted.
(3) The value of the start address is equal to or less than that of the
    end address.


## 4. Schedule of Fixing Problem

- E1/E20 Emulator Debugger for RX family included in CubeSuite+
  We plan to fix this problem in V.1.02.00.
- RX E1/E20 Emulator Debugger
    (for High-performance Embedded Workshop)
  We inform you of the schedule of fixing this problem later in
  Renesas Tool News.
- R32C E30A Emulator Debugger
  Sorry we have no plan to fix this problem.

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