

RENESAS TOOL NEWS on February 01, 2016: 160201/tn5

Notes on Using the Renesas Flash Programmer V3 Software for Programing Flash Memory

When using the Renesas Flash Programmer V3, a software tool for programing flash memory, take note of the problems described in this note regarding the following points.

- 1.Errors occurring when commands are executed in the boot mode (USB interface) of products of the RX64M and RX71M groups
 - 2.Self-diagnosis of the E1 or E20 emulator leading to errors
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1. Errors Occurring When Commands are Executed in the Boot Mode (USB Interface) of Products of the RX64M and RX71M Groups

1.1 Related Version V3.00.00

1.2 Applicable MCUs RX64M and RX71M groups

1.3 Description

The following error will occur if commands such as writing are executed while a target MCU is connected if the MCU is in boot mode (with the USB interface).

Error (E100000D): A flow error occurred in the device. (Response 34:C3)

1.4 Provisional Countermeasure

Use V2.05.02 or V2.05.03 (to be released in March, 2016) of the Renesas Flash Programmer.

1.5 Schedule for Fixing the Problem

This problem will be fixed in V3.01.00, which is to be released in May, 2016.

2. Self-Diagnosis of the E1 or E20 Emulator Leading to Errors

2.1 Related Version

V3.00.00

2.2 Applicable MCUs

All MCUs which the Renesas Flash Programmer supports.

2.3 Description

Executing the self-diagnosis program for an E1 or E20 emulator while it is connected with V3.00.00 of the Renesas Flash Programmer causes errors.

The following are the log entries relating to errors in the self-check program.

[Result of TEST1]	FAIL (Error 1103)
[Error Message]	The E1/E20 self-check has failed.
[Error Detail]	Internal module check has failed.

Facilities other than self-diagnosis (flash programming and debugging) will operate correctly.

Supplementary Note:

Connection of the V3.00.00 Renesas Flash Programmer to an E1 or E20 emulator leads to overwriting of the firmware in the emulator. This leads to errors when the self-diagnosis program for the emulator is executed.

2.4 Provisional Countermeasure

Restore the firmware of the emulator to its original state by following the procedure below. Run the self-diagnosis program and check for normal termination. After confirming normal termination, use the V3.00.00 Renesas Flash Programmer.

Use V2.05.02 or V2.05.03 (to be released in March, 2016) of the Renesas Flash Programmer if you need to confirm the normal termination of the self-diagnosis program while the Renesas Flash Programmer is connected and in use.

[Procedure to restore the firmware of the E1 or E20 emulator to its original state]

Obtain the V2.05.02 or V2.05.03 Renesas Flash Programmer from the following URL, and restore the firmware to its original state by working through the steps from a to l.

- a. Terminate the self-diagnosis program.
- b. Connect the E1 or E20 emulator to the host PC via the USB.
Do not connect a target system.
- c. Start the V2.05.02 or V2.05.03 Renesas Flash Programmer.
- d. [Welcome] dialog box
Create a new workspace: Select "Basic mode".
Click on [Next].
- e. [Create New Workspace] dialog box
Microcontroller to be used:
For the RH850 and RL78 Families:
Select "RH850" and "Generic Boot Device".
For the RX Family:
Select "RX" and "Generic Boot Device".
Input the names of the workspace and project.
Designate the places where they are to be created.
Click on [Next].
- f. [Communication Interface] dialog box
Select "E1" or "E20".
Click on [Next].
- g. [Power Supply] dialog box
Click on [OK].
- h. [Mode Pin at Connection] dialog box for the RX Family:
Click on [OK].
- i. [Confirmation(Q1010002)] dialog box
Click on [OK].
- j. [Select emulator] dialog box
Click on [OK].
- k. The firmware of the E1 or E20 emulator will be overwritten.
The following messages will be displayed in the output panel.
Adaptor updated successfully
E1/E20 Config data downloaded.
Error (E1017025): Target is not powered
Error (E1010002): Generic device query failed
- l. [Communication Interface] dialog box
Terminate the session of the Renesas Flash Programmer by clicking on [Cancel].

2.5 Schedule for Fixing the Problem

This problem will be fixed in V3.01.00, to be released in May, 2016.

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