

Outline

When using e² studio integrated development environment, please note the following points.

1. Notes of the step execution for RA Family

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1.1 Applicable Products

e² studio 2024-07 or later

1.2 Applicable Devices

RA Family devices

1.3 Details

While debugging, stepping into a function, or returning from a function by stepping operation may cause the debugging of e² studio uncontrollable. In this case, e² studio will keep running state and "PC not saved" will be displayed in Debugger Console View.

1.4 Conditions

- RA0 Series or RA2 Series

It may happen on attempting to return from the function which is called from an interrupt/exception handler by stepping.

- RA4 Series, RA6 Series, or RA8 Series

It may happen for the non-secure program of TrustZone, on attempting to step into the function which is exposed by the secure program. Also, it may happen for the non-secure program of TrustZone, on attempting to return from the function by stepping, which is called from an interrupt/exception handler.

1.5 Workaround

For returning from the function, please use a step-return operation, invoke 'Run to Line' at the return address, or set a breakpoint at the return address and run the program.

For stepping into the function exposed by secure program, please invoke 'Run to Line' at the function, or set a breakpoint at the function and run the program.

Please note that the issue affects debugging only and it doesn't affect the generated code.

1.6 Schedule for Fixing the Problem

This problem will be fixed in the next version. (Scheduled to be released in Apr, 2025.)

Revision History

Rev.	Date	Description	
		Page	Summary
1.00	Mar.05.25	-	First edition issued

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