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Trace32 In Target Reset **Awaiting Agent**

- R Radoslav
- **Forum name:** #Debugging

Hello,

I'm using Trace32 PowerView for ARM
Software Version: N.2025.06.000181255
Build: 181255.
with NXP S32K344 chip.

I'm observing strange behavior when I do reset via Trace 32:

- 1) CPU->System Settings->RESetOut: after reset , F_EXR external reset flag as expected.
- 2) CPU-> In Target Reset: F_EXR flag + FCCU_FTR reset flag. Here I don't understand why FCCU_FTR occurred.

Could you explain what is difference between RESetOut and In Target Reset?

I suspect that In Target Reset does except toggling nSRST signal also something more - does it send some command to DAP or something like that?

nSRST signal is connected to the dedicated PA5 RESET_B pin on MCU side.

As per Osci, both RESetOut and In Target Reset set down reset_b for 100ms.

FCCU_FTR flag happens after In Target Reset only if FCCU NCF5 is enabled - Debug Activation Catch (FCCU is NXP Vendor IP catching some HW faulty signals from the chip) => that's why I suspect In Target Reset does something more than toggling nSRST.

Kind Regards,
Radoslav

Comment (1)

Ahmed Regaieg
6 months ago

The "In Target Reset" button is mapped to the command SYStem.RESetTarget.

The command `SYStem.RESetTarget` have similarities with `SYStem.ResetOut`, as they perform a target reset.

But `SYStem.RESetTarget` is closer to a `SYStem.Up`. Both commands reset the target, set the core into debug mode and stop the core. `SYStem.RESetTarget` additionally performs a `Register.Init` afterwards.

For context: due to some controllers requiring more actions from the debugger than just toggling the reset pin, the `ResetOut` evolved into such commands, which not only assert a reset but also connect to the target. This means that such commands do include communication over the DAP bus.

In order to ensure flexibility, reset-related options like `TRST`, `EnReset`, `ResBreak` and `WaitReset` can be used to modify/limitate the reset functionality.