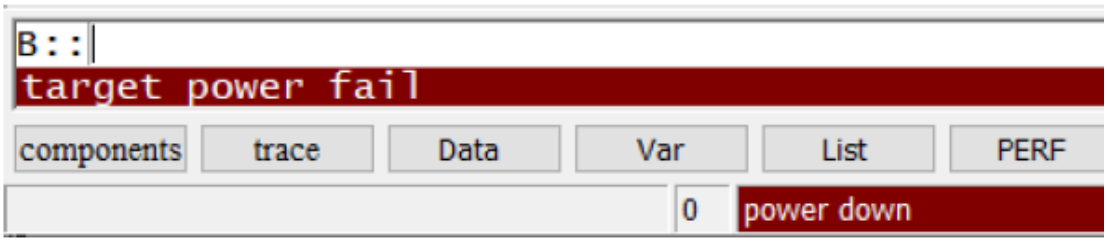
[Arm] SYStem.Up / SYStem.Mode Attach returns "target power fail"

2025-07-14 - Comments (0) - Arm



This error message means that no power has been detected on the reference voltage pin that can be found on

- Pin 1 (VTREF) for the ARM-20 connector:
- Pin 1 (VREF DEBUG) for the MIPI-10/20/34 connectors
- Pin 14 (JTAG-VTREF) for the Mictor-38 connector (if used for debugging)
- Pin 5 (VTREF) for the TI-14 and TI-20 Compact connectors

Please refer to ARM JTAG Interface Specifications for more information about the pin mappings of the different connector types.

Check list:

- Check if the target is powered
- Check if the debug cable is properly connected to the target, especially when an adapter is used (bad wiring)
- Check if the debug cable is connected in the correct way or is connected to the right debug connector if multiple connectors are available on the target board
- Measure the power on the reference voltage pin. Power must be greater than 0.9V.
- Check the target schematics:
    - Is the reference voltage pin properly connected to the JTAG header?
    - Is the GND pin correctly connected?
- Cross-check with another debug cable.

- Tags
- Arm