No CPU topology found Open Discussion

- SB Simon Barker
- **Forum name:** #Board Bring-Up

We have developed a board with an Intel x86-64 "Tiger Lake" processor. We have installed the Intel Slim Bootloader on it, in SPI flash.
We are connecting to the board using a MIPI60 socket, using an LA-3500, LA-4590 and CombiProbe 2 MIPI60-CV2.

When we power up the board on its own, TRACE32 can connect to the board successfully, and we can debug software on it.

The processor board can connect to a second board (with no CPU on it) via a multi-way connector. When we plug that board in, TRACE32 can no longer connect to the Tiger Lake CPU.

When I start TRACE32, it initially reports "power down". I plug in the MIPI60 connector and it then reports "system down". I run the command SYSyem.DETECT TARGET. It still reports "system down" and logs the following error messages:-
Found 1 topology.
No CPU topology found!
error occurred, id='ERROR IN DETECTING TOPOLOGY!'

We assume that some signal on that multi-way connector is interfering with the JTAG connection to the CPU. But I cannot find any documentation that shows these error messages.

Has anyone seen this behaviour before? Are there any signal lines that we should be looking at in particular?

Comments (2)

JH **Jia Huang**
2 years ago
This error confirms that Trace32 can't access the target through the JTAG port. It is likely that the JTAG connection is physically interrupted, just as you assumed. I would suggest to use an oscilloscope to check the JTAG pins.

SB **Simon Barker**
1 year ago
Rather late response: Yes it was the connection between the two boards interfering with the JTAG port on the CPU board.