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No CPU topology found **Awaiting Agent**

- 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 `SYSEM.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**

9 months 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**

3 weeks ago

Rather late response: Yes it was the connection between the two boards interfering with the JTAG port on the CPU board.