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trace A53 ti-am64x not working with the timing Awaiting Agent

- JT Jun Tu
- **Forum name:** #Trace Analysis

Hi,
I am trying to trace A53, trace my interrupt how often it comes.

here is my script.

```
//Data.Set E:0x43018170 %Long 0x000200F6 //warm-reset
```

```
RESet
```

```
SYStem.RESet
```

```
SYStem.CPU AM6422-CR5-MAIN0
```

```
;SYStem.Option WaitReset 500ms
```

```
system.MemAccess DAP
```

```
SYStem.JTAGCLOCK CTCK 10MHz
```

```
SYStem.Mode.Attach
```

```
Break
```

```
tronchip.set undef off
```

Data.Set E:0x43018170 %Long 0x000200F6 //warm-reset, refer to CTRLMMR_RST_CTRL Register on the TRM

```

wait 2s

SYStem.Mode.Attach

Break

// ====== MEMORY CONFIGURATION ======
DATA.Dump E:0x70080000 /Spotlight // MSRAM section allocated to R5F

// ====== BINARY IMAGE LOAD ======
DATA.LOAD C:\A53_compilation\Code\cmc_primary_boot_image_debug

GO

SCREEN.WAIT !STATE.RUN() 10s

SYStem.CPU AM64XX

CORE.ASSIGN 1.

;SYStem.Option.WaitReset 500ms

system.MemAccess DAP

SYStem.JTAGCLOCK CTCK 10MHz

SYStem.Option.IMASKASM ON

SYStem.Option.IMASKHLL ON

SYStem.Mode.Attach

Break

SYStem.Option.CFLUSH ON

DATA.LOAD gpsmain

Map.bonchip 0x0--0xFFFFFFFFFFFFFF

Trace.autoinit ON
Trace.Method onchip
Trace.autoinit ON

etm.clock 800Mhz
etm.on
etm.ATBTrigger OFF ; should be unchecked
etm.timeMode CycleAccurate
etm.DataSuppress on

Mode.Hll
WinPOS 0. 0.
List.auto
WinPOS 0. 32.
WinPOS 50% 32.
area
print "break"
break.delete
Mode.Hll

symbol.case off

```

```
symbol.NAMESPACES *
```

```
Break.Set juntuerror
```

```
list main  
break.set main
```

```
GO
```

Then, I set a "trace enable" in the interrupt.

after the break:

```
N.2024.03.000167751
```

we trace.list , it is all 0.

I attached the lauterbach verion and trace 0 timing example

Thanks

Comments (3)

JT Jun Tu

3 weeks ago

Besides, is there any other settings that in our script not working fine? Do you have an example? Thanks

JT Jun Tu

3 weeks ago

By the way we tried 800MHZ, 1000 MHZ, AND 1200MHZ, but the trace interval is always 0. Thanks.

Faiez Louati

3 weeks ago

Hello Jun,

This is expected when using on-chip trace with selective trace.

If you open the ETM window, you will notice that the time mode in your case is set to Off or Cycle accurate. To get timing information, you need to set it to Cycle Accurate, which generates timestamps from the chip. note that this also requires full program trace (not just selective trace with traceenabled braekpoint). So you have to trace the full program flow and then with the Trace.find you can filter the trace to display the interrupt calls only.

Alternatively, you can use off-chip trace (if you have the Power Trace module) with External time mode, which relies on the tool's timing. This approach is less accurate than cycle-accurate timing but generates significantly less bandwidth and provides a much larger trace buffer. You can also use cycle-accurate timing with off-chip trace tools if needed.

Please refer to the link below for more details about the possible tools configuration for AM6422:

<https://www.lauterbach.com/supported-platforms/chips/am6422>

Please let me know if you have any questions.