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FreeRTOS-SMP Debugging

• RR Rohith R

• Forum name: #Debugging

Hi Team.

I am trying to debug FreeRTOS-SMP on quad core using Trace 32.

(i) I want to know How can I see the registers of all the 4 cores at a time?

(ii) Also How can I debug (step into the codes) all the 4 cores at the same time .

To do all these what changes I have to do in the .cmm file

Comments (5)

Khaled Jmal

2 years ago

Hello Rohit, first, you use an SMP CPU selection in TRACE32 PowerView. If you can give me more information about your target processor, then I could help you more with this. Please then have a look to "SMP Concept" and "Basic Debugging (SMP)" in https://repo.lauterbach.com/pdf/training-debugger-smp.pdf

RR Rohith R

2 years ago

Khaled Jmal

2 years ago

You need to open a List window with the /CORE option: List.auto /CORE 0 List.auto /CORE 1 List.auto /CORE 2 List.auto /CORE 3 $\,$

RR Rohith R

2 years ago

I have tried with this. Now I can see the code snippet and registers of all the 4 cores at the same time. But Now there is a problem when debugging, step in it is not properly step in all the 4 core simultaneoulsy. Is it the issue

with .cmm file?

RR Rohith R

2 years ago

Also List /CORE Register.view /CORE Go _system_start List /CORE 1. Register.view /CORE 1. Go _system_start List /CORE 2. Register.view /CORE 2. Go _system_start List /CORE 3. Register.view /CORE 3. Go _system_start When I use this code snippet to debug from _system_start in all the 4 cores, core1, core2 and core3 is available. Core 0 _system_start and its registers are not available.