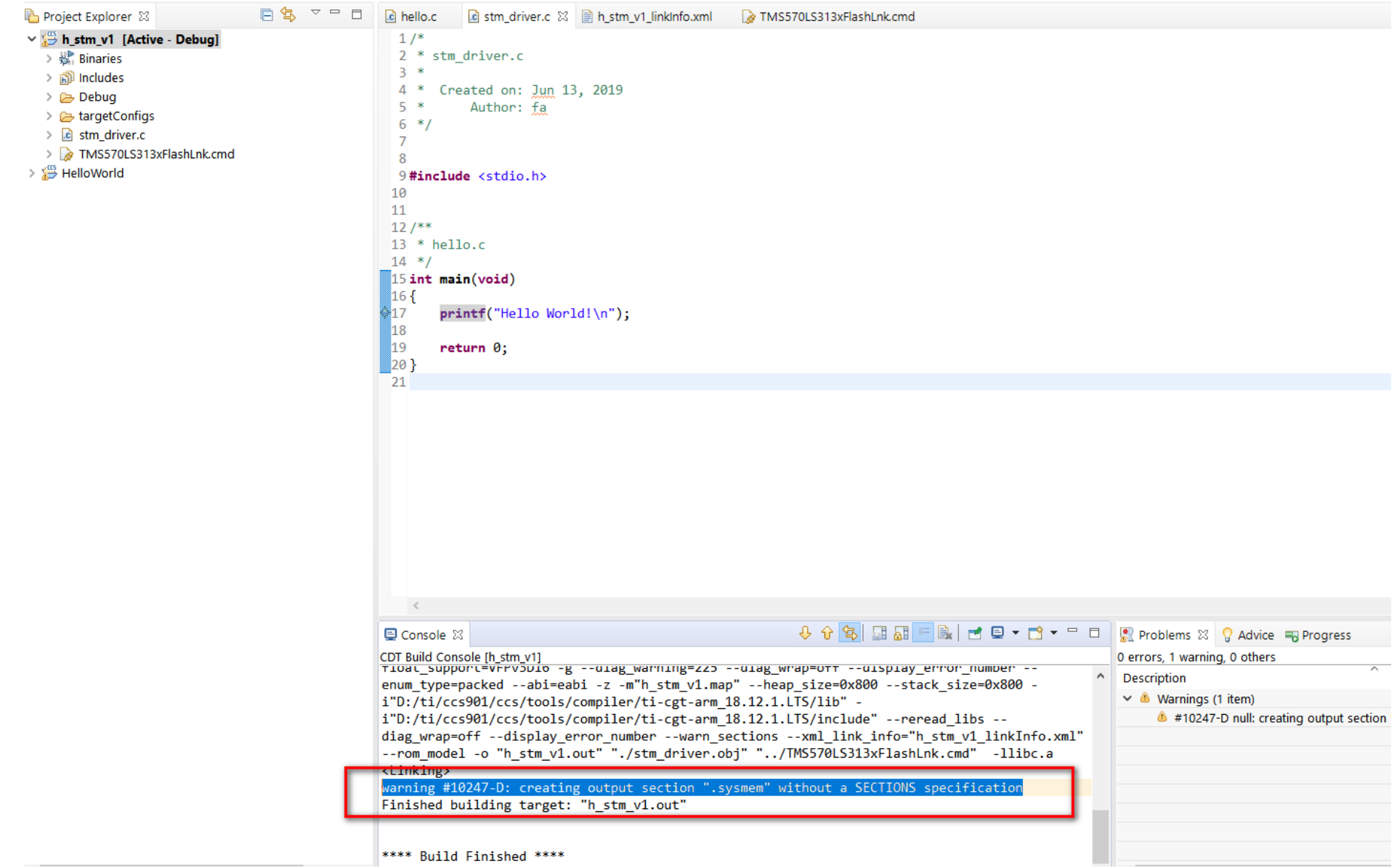
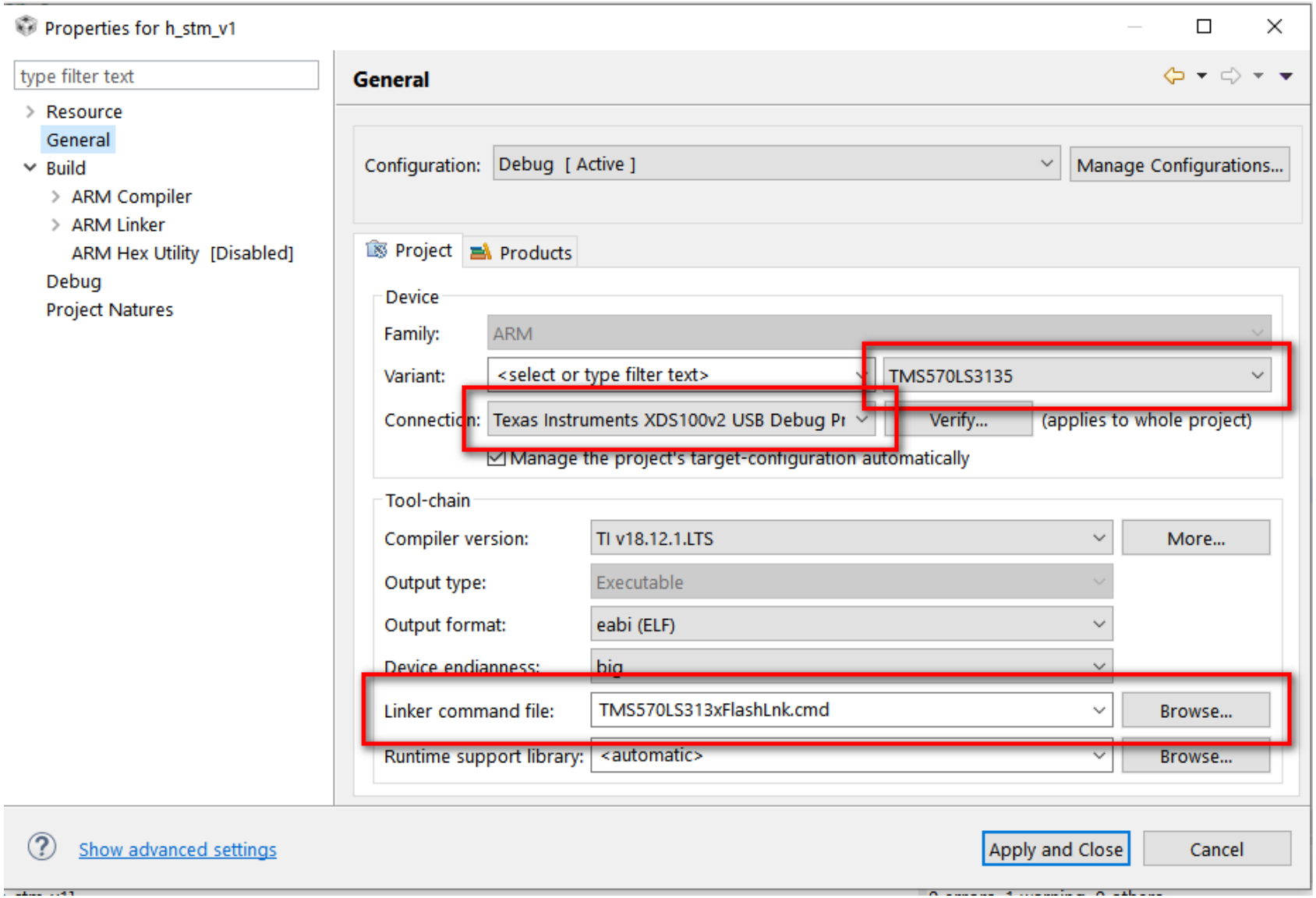
`warning #10247-D: creating output section ".sysmem" without a SECTIONS specification`




then:


Properties for h_stm_v1
type filter text
Resource
General
Build
ARM Compiler
ARM Linker
ARM Hex Utility [Disabled]
Debug
Project Natures
General
Configuration: Debug [ Active ]
Manage Configurations...
Project
Products
Device
Family: ARM
Variant: <select or type filter text>
TMS570LS3135
Connection: Texas Instruments XDS100v2 USB Debug Pr
Verify...
(applies to whole project)
Manage the project's target-configuration automatically
Tool-chain
Compiler version: TI v18.12.1.LTS
More...
Output type: Executable
Output format: eabi (ELF)
Device endianness: big
Linker command file: TMS570LS313xFlashLnk.cmd
Browse...
Runtime support library: <automatic>
Browse...
Show advanced settings
Apply and Close
Cancel

For the HDK development kit TMS570LS31x ICE Board, with USB xds100v2 jtag I have chosen: TMS570LS3135 (not sure).
1. Does this match with the development kit?

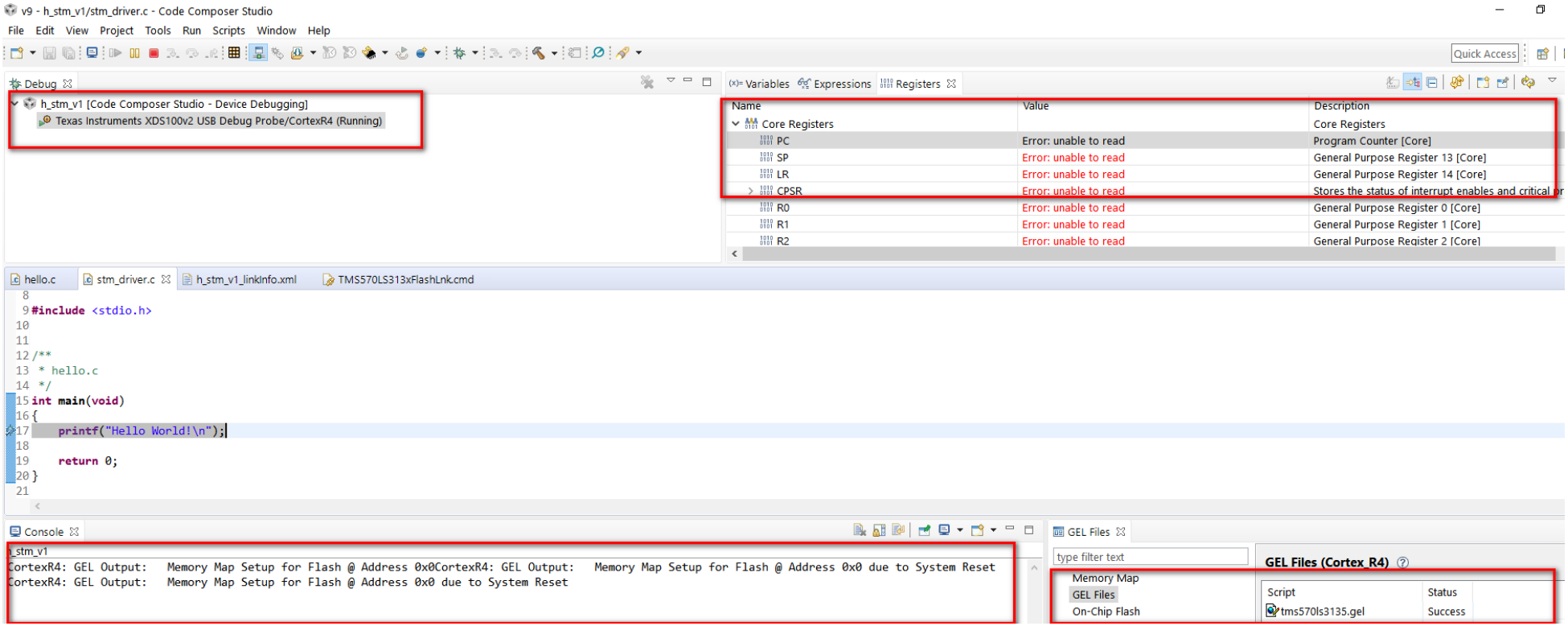
When verifying the connection:
[Start]

```
Execute the command:

%ccs_base%/common/uscif/dbgjtag -f %boarddatafile% -rv -o -F inform,logfile=yes -S pathlength -S integrity

[Result]


-----[Print the board config pathname(s)]-----------------------------------

C:\Users\fa\AppData\Local\TEXASI~1\CCS\ccs901\
    0\0\BrdDat\testBoard.dat

-----[Print the reset-command software log-file]----------------------------

This utility has selected a 100- or 510-class product.
This utility will load the adapter 'jioserdesusb.dll'.
The library build date was 'Mar 25 2019'.
The library build time was '17:36:26'.
The library package version is '8.1.0.00007'.
The library component version is '35.35.0.0'.
The controller does not use a programmable FPGA.
The controller has a version number of '4' (0x00000004).
The controller has an insertion length of '0' (0x00000000).
This utility will attempt to reset the controller.
This utility has successfully reset the controller.

-----[Print the reset-command hardware log-file]----------------------------

The scan-path will be reset by toggling the JTAG TRST signal.
The controller is the FTDI FT2232 with USB interface.
The link from controller to target is direct (without cable).
The software is configured for FTDI FT2232 features.
The controller cannot monitor the value on the EMU[0] pin.
The controller cannot monitor the value on the EMU[1] pin.
The controller cannot control the timing on output pins.
The controller cannot control the timing on input pins.
The scan-path link-delay has been set to exactly '0' (0x0000).

-----[The log-file for the JTAG TCLK output generated from the PLL]----------

There is no hardware for programming the JTAG TCLK frequency.
```

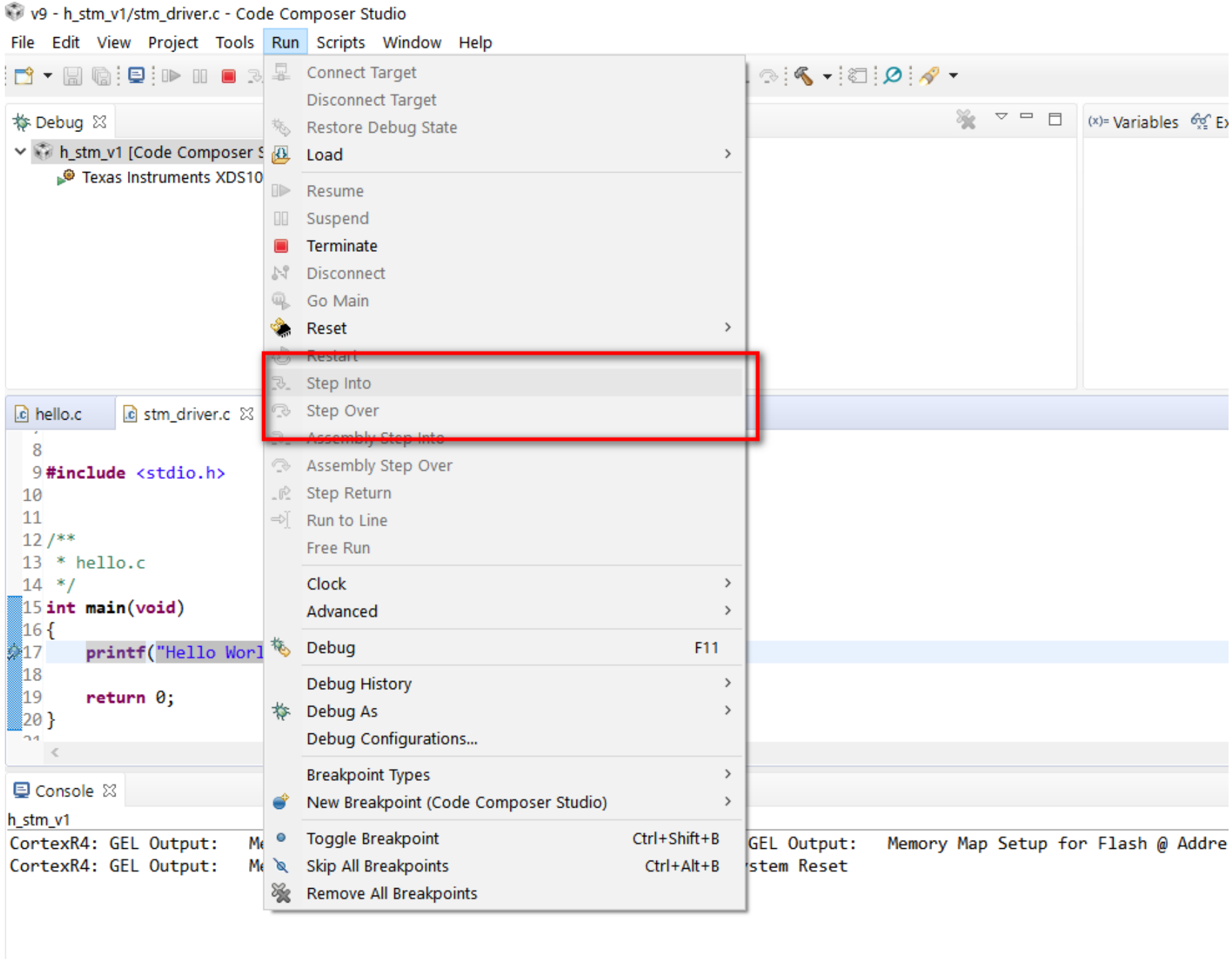
```
-----[Measure the source and frequency of the final JTAG TCLKR input]--------

There is no hardware for measuring the JTAG TCLK frequency.

-----[Perform the standard path-length test on the JTAG IR and DR]-----------

This path-length test uses blocks of 64 32-bit words.

The test for the JTAG IR instruction path-length succeeded.
The JTAG IR instruction path-length is 6 bits.

The test for the JTAG DR bypass path-length succeeded.
The JTAG DR bypass path-length is 1 bits.

-----[Perform the Integrity scan-test on the JTAG IR]------------------------

This test will use blocks of 64 32-bit words.
This test will be applied just once.

Do a test using 0xFFFFFFFF.
Scan tests: 1, skipped: 0, failed: 0
Do a test using 0x00000000.
Scan tests: 2, skipped: 0, failed: 0
Do a test using 0xFE03E0E2.
Scan tests: 3, skipped: 0, failed: 0
Do a test using 0x01FC1F1D.
Scan tests: 4, skipped: 0, failed: 0
Do a test using 0x5533CCAA.
Scan tests: 5, skipped: 0, failed: 0
Do a test using 0xAACC3355.
Scan tests: 6, skipped: 0, failed: 0
All of the values were scanned correctly.

The JTAG IR Integrity scan-test has succeeded.

-----[Perform the Integrity scan-test on the JTAG DR]------------------------

This test will use blocks of 64 32-bit words.
This test will be applied just once.

Do a test using 0xFFFFFFFF.
```

```
Scan tests: 1, skipped: 0, failed: 0
Do a test using 0x00000000.
Scan tests: 2, skipped: 0, failed: 0
Do a test using 0xFE03E0E2.
Scan tests: 3, skipped: 0, failed: 0
Do a test using 0x01FC1F1D.
Scan tests: 4, skipped: 0, failed: 0
Do a test using 0x5533CCAA.
Scan tests: 5, skipped: 0, failed: 0
Do a test using 0xAACC3355.
Scan tests: 6, skipped: 0, failed: 0
All of the values were scanned correctly.

The JTAG DR Integrity scan-test has succeeded.

[End]
```

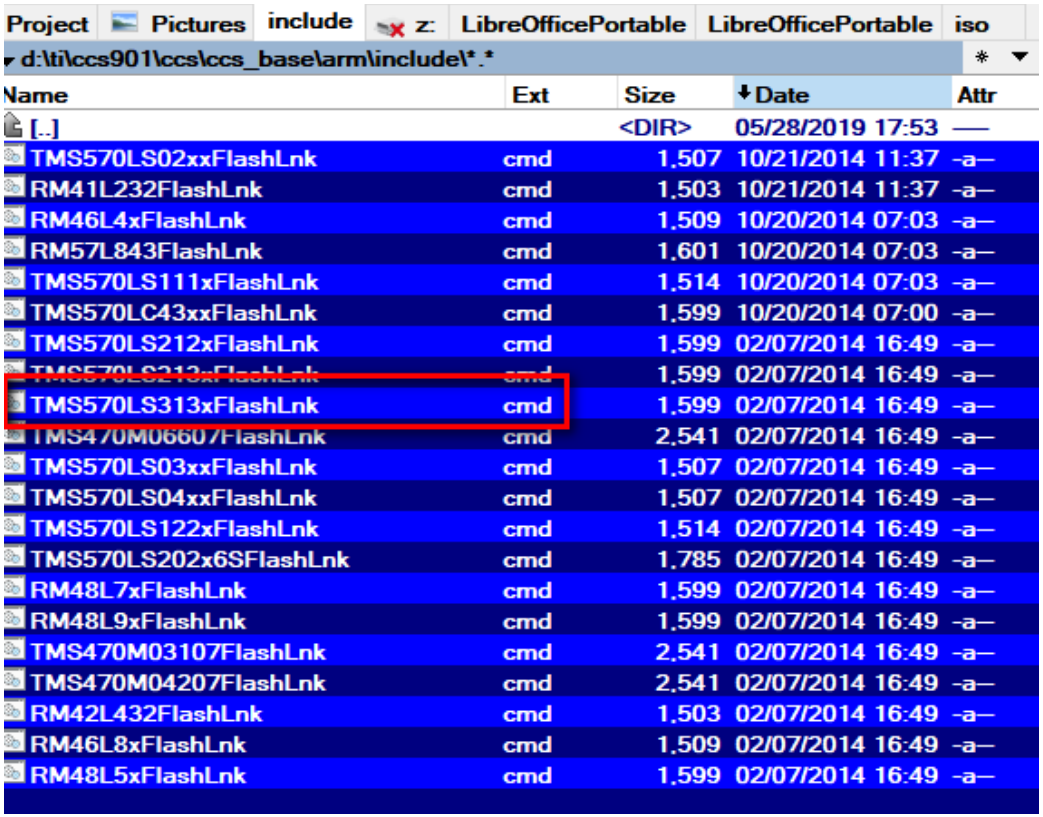
then when I would debug:



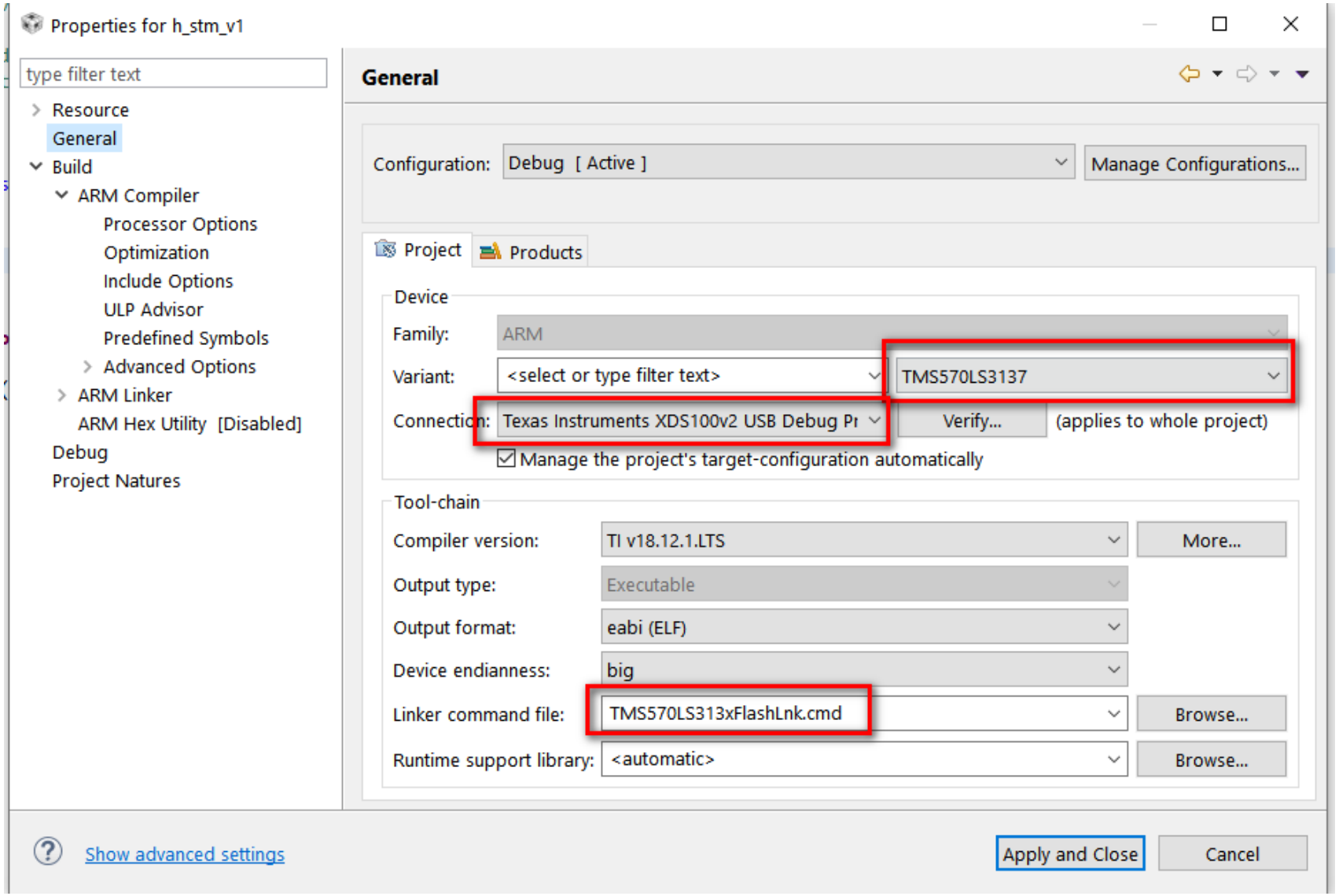

2. As I am not able to step through (see below), please let me know what I should to have the debug running on HDK board?


v9 - h_stm_v1/stm_driver.c - Code Composer Studio
File Edit View Project Tools Run Scripts Window Help
Debug
h_stm_v1 [Code Composer S
Texas Instruments XDS10
Variables
hello.c
stm_driver.c
#include <stdio.h>
/**
* hello.c
*/
int main(void)
{
printf("Hello Worl
return 0;
}
Console
h_stm_v1
CortexR4: GEL Output: Me
CortexR4: GEL Output: Me
GEL Output: Memory Map Setup for Flash @ Addre
stem Reset
Connect Target
Disconnect Target
Restore Debug State
Load
Resume
Suspend
Terminate
Disconnect
Go Main
Reset
Restart
Step Into
Step Over
Assembly Step Into
Assembly Step Over
Step Return
Run to Line
Free Run
Clock
Advanced
Debug F11
Debug History
Debug As
Debug Configurations...
Breakpoint Types
New Breakpoint (Code Composer Studio)
Toggle Breakpoint Ctrl+Shift+B
Skip All Breakpoints Ctrl+Alt+B
Remove All Breakpoints

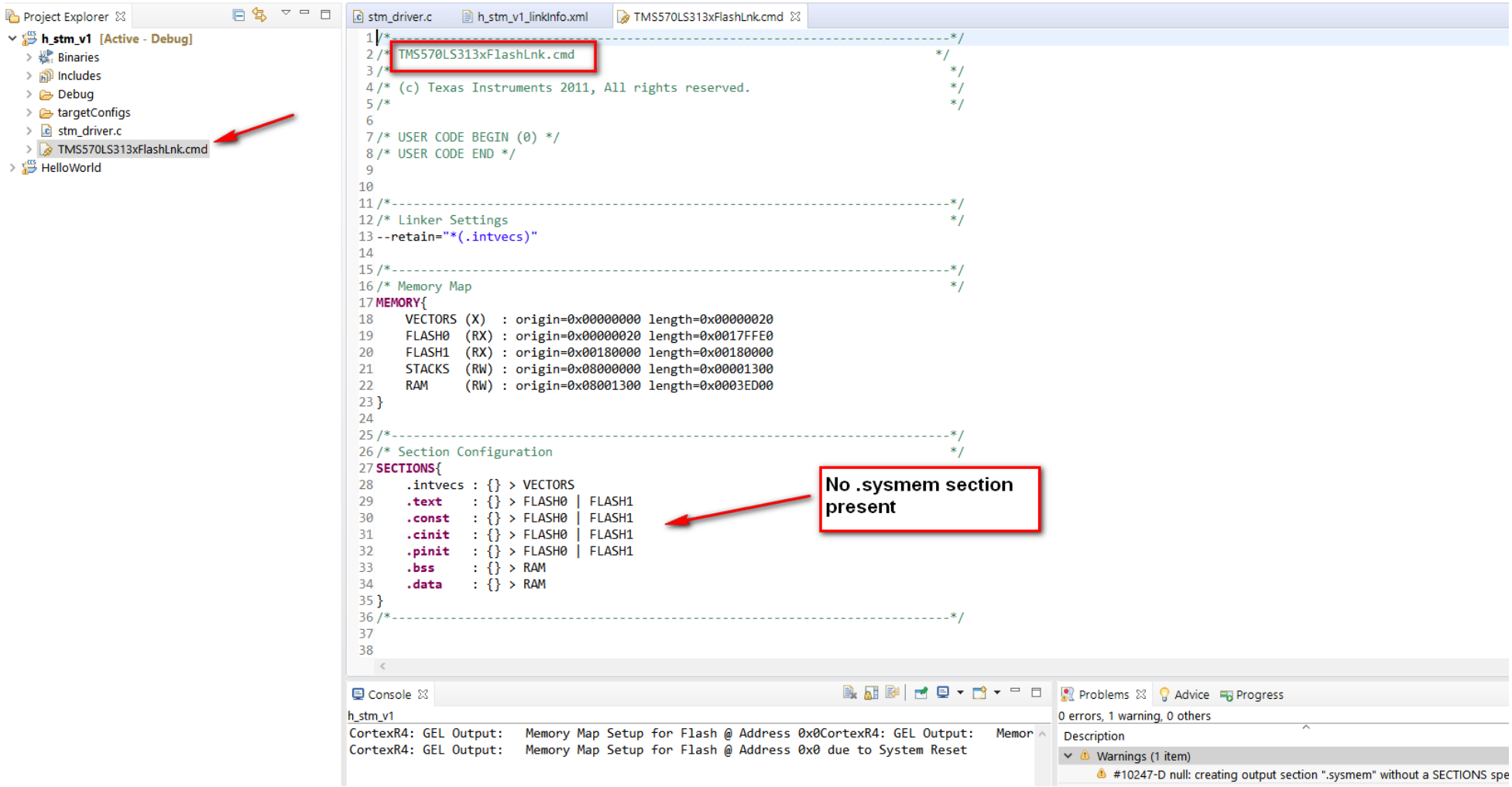
2nd round:
The only place where I’ve got linker files:




Current project configuration switched to TMS570LS3137, added the linker command file from above:

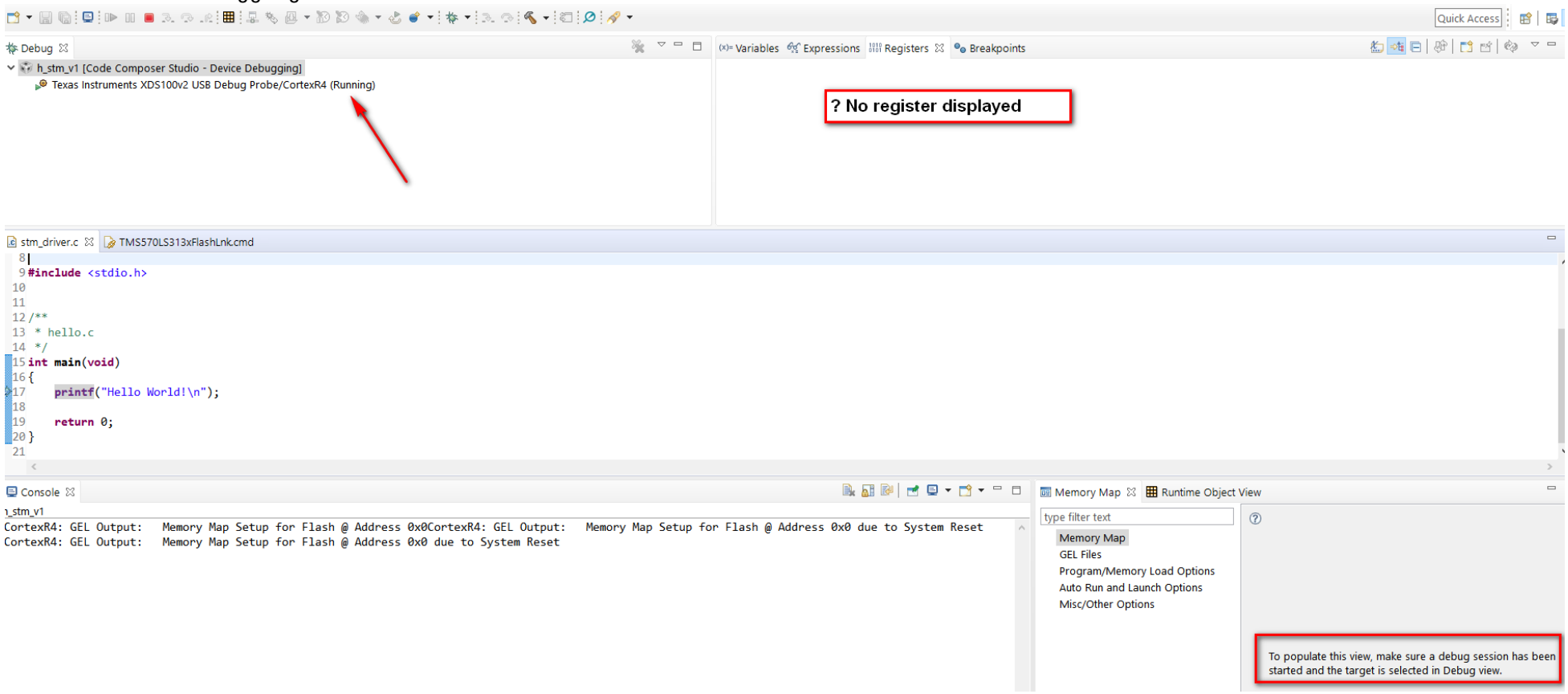

Properties for h_stm_v1
type filter text
Resource
General
Build
ARM Compiler
Processor Options
Optimization
Include Options
ULP Advisor
Predefined Symbols
Advanced Options
ARM Linker
ARM Hex Utility [Disabled]
Debug
Project Natures
General
Configuration: Debug [ Active ]
Manage Configurations...
Project
Products
Device
Family: ARM
Variant: <select or type filter text>
TMS570LS3137
Connection: Texas Instruments XDS100v2 USB Debug Pr
Verify...
(applies to whole project)
Manage the project's target-configuration automatically
Tool-chain
Compiler version: TI v18.12.1.LTS
More...
Output type: Executable
Output format: eabi (ELF)
Device endianness: big
Linker command file: TMS570LS313xFlashLnk.cmd
Browse...
Runtime support library: <automatic>
Browse...
Show advanced settings
Apply and Close
Cancel

Now the linker file content is:




I have searched through the cmd files, no .sysmem section in any of the linker files.

Now when I am debugging:




The program doesn’t stop at the breakpoint.