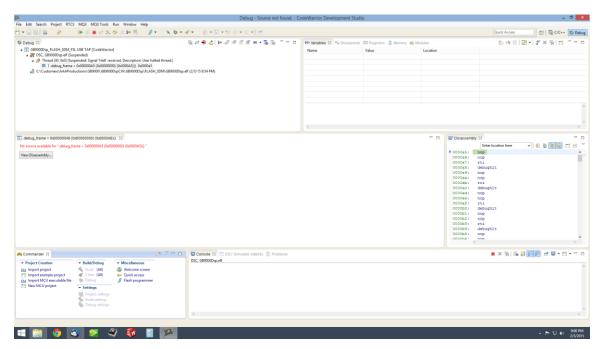
Workaround for programming 56F8323 in CodeWarrior v10.6 debugger

There is a known problem in CodeWarrior v10.6 debugger. After user creates a new bareboard project for 56F8323 in CW10.6 and starts debugging with USBTAP, but the debugger stops, and the debugger view shows "No source available for ".debug_frame + 0x0000000A5 (0x00000000) (0x00000A5)() ", just as below:



To resolve this problem, we need two steps:

1) Go to project folder, and open the file "MC56F8323.tcl" under "\Project_Settings\Debugger" subfolder, then add the line as below between "change x:0xF401 0x0000" and "change x:0xF401 0x0100" to unprotect boot sector:

change x:0xF411 0x0000

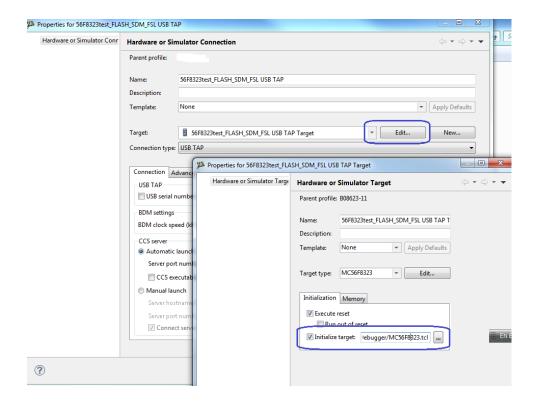
The picture as below shows the content in file "MC56F8323.tcl" after modification.

```
1 radix x
 2 config hexprefix 0x
 3 config MemWidth 16
 4 config MemAccess 16
 5 config MemSwap off
9 # MC56F8323 initialization file for flash
10 # Freescale sample code
11
12 # Enable Reset. GPIOD4 will be forced by the debugger
13 # GPIO D BASE + 3 is register address. We need to set
14 # Content is 1 which means peripheral owns the pin. No
15 # need to be set for this device in order to reset the
16 change x:0xF173 0x1000
17
18 # set Flash Clock Divider (write 0x27)
19 change x:0xF400 0x0A00
20
21 # unlock protection
22 change x:0xF401 0x0000
24 # unprotect
25 change x:0xF410 0x0000
2 Change x:0xF411 0x0000
28 # unprotect data
29 change x:0xF401 0x0100
30 change x:0xF410 0x00000
```

It is recommended to make this modification in "MC56F8323.tcl" either which is under the CodeWarrior folder:

C:\Freescale\CW MCU v10.6\MCU\lib\wizard_data\DSC\DataBase\init_files

Because this file is copied into the project subfolder ("\Project_Settings\Debugger") when user creates a new project for DSC from File menu->New->Barebaord project. User can find the path which saves the copied file as below:



2) Go to CodeWarrior v10.6 installation folder, usually is below:

C:\Freescale\CW MCU

v10.6\MCU\bin\plugins\support\Products\ProductData\DSCFPDevices.mwpdb\FP

And open the file "MC56F8323_P_FLASH.xml", then change the value in line13 from:

<skip_bytes>0x18000</skip_bytes>

to:

<skip_bytes>0x1C000</skip_bytes>

This is a gap to the boot sector of the flash memory.

The picture as below shows the content in file "MC56F8323.tcl" after modification.

```
MC56F8323_P_FLASHxml
1 <?xml version="1.0" encoding="UTF-8"?>
2 <device-file>
4 <content>
5
         <name>MC56F8323_P_FLASH</name>
         <manufacturerid>0xFFFF</manufacturerid>
7
          <chiperase>true</chiperase>
8
         <memory space>0</memory space>
         <access type>WORD</access_type>
10
11
                  <sectorcount>32</sectorcount>
12
                  <sectorsize>0x200</sectorsize>
       <skip_bytes>0x1C000</skip_bytes>
13
14
                  <sectorcount>16</sectorcount.</pre>
15
                  <sectormem>boot</sectormem>
16
                  <sectorsize>0x100</sectorsize>
17
         </sectors>
18
         cprotecttype>dsc_hfm_program_32k_boot_8k
19
          <flash config base>0x3FF7</flash config base>
20
         <clock div>0xA0</clock div>
21
          <flash module base>0xf400</flash module base>
22
         <buffer start>0x2FC00</buffer start>
         <buffer size>0x400</buffer size>
24
          <third party support>
25
                  <workspace_start>0x2F800</workspace_start>
26
                  <workspace size>0x200</workspace size>
27
         </third party support>
28
          <organizationcount>1</organizationcount>
29
          <organization>
                  <name>68kx16x1</name>
31
                  <id>0xFFFF</id>
32
                  <begin address>0x000000</pegin address>
33
                   <end address>0x021000</end address>
```

3) When CodeWarrior launches, it creates one database, which includes all xml config files from the {CW home directory}\MCU\bin\plugins\support\Products\ProductData. It's name is chameleon_toc.sqlite. If this file already exists, is not enough to fix MC56F8323_P_FLASH.xml. User have to delete C:\Freescale\CW MCU

v10.6\MCU\bin\plugins\support\Products\ProductData\chameleon toc.sqlite (if it exists)

After these modifications, the debugger become work well with USBTAP and MC56F8323.

The attached two files are the modified "MC56F8323.tcl" and "MC56F8323_P_FLASH.xml". User can put them under the subfolder below to replace the old ones:

C:\Freescale\CW MCU v10.6\MCU\lib\wizard_data\DSC\DataBase\init_files

and

C:\Freescale\CW MCU v10.6\MCU\bin\plugins\support\Products\ProductData\DSCFPDevices.mwpdb\FP

This problem will be fixed in further update. resolve the problem.	Before it, user can use the workaround in above to