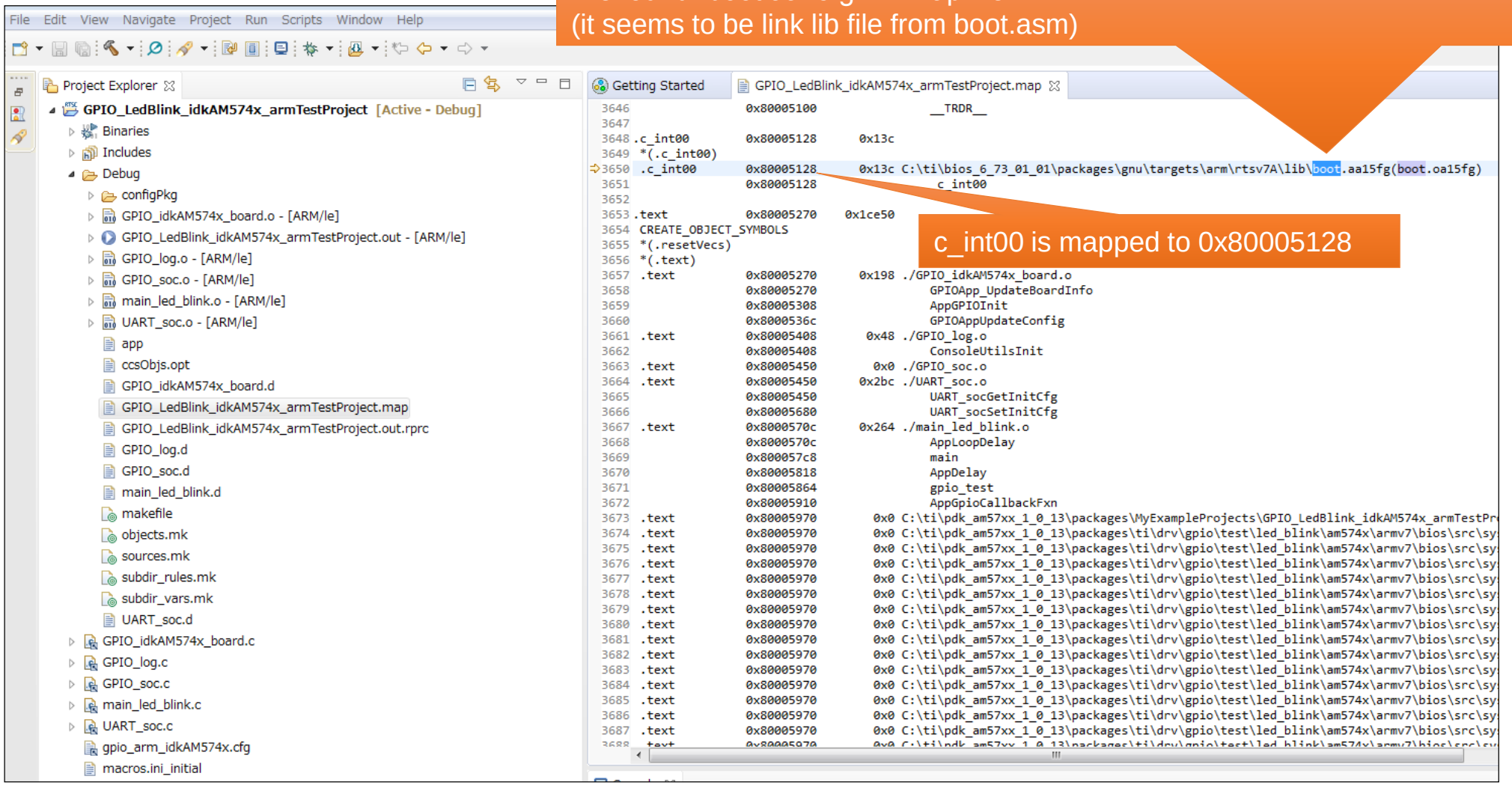
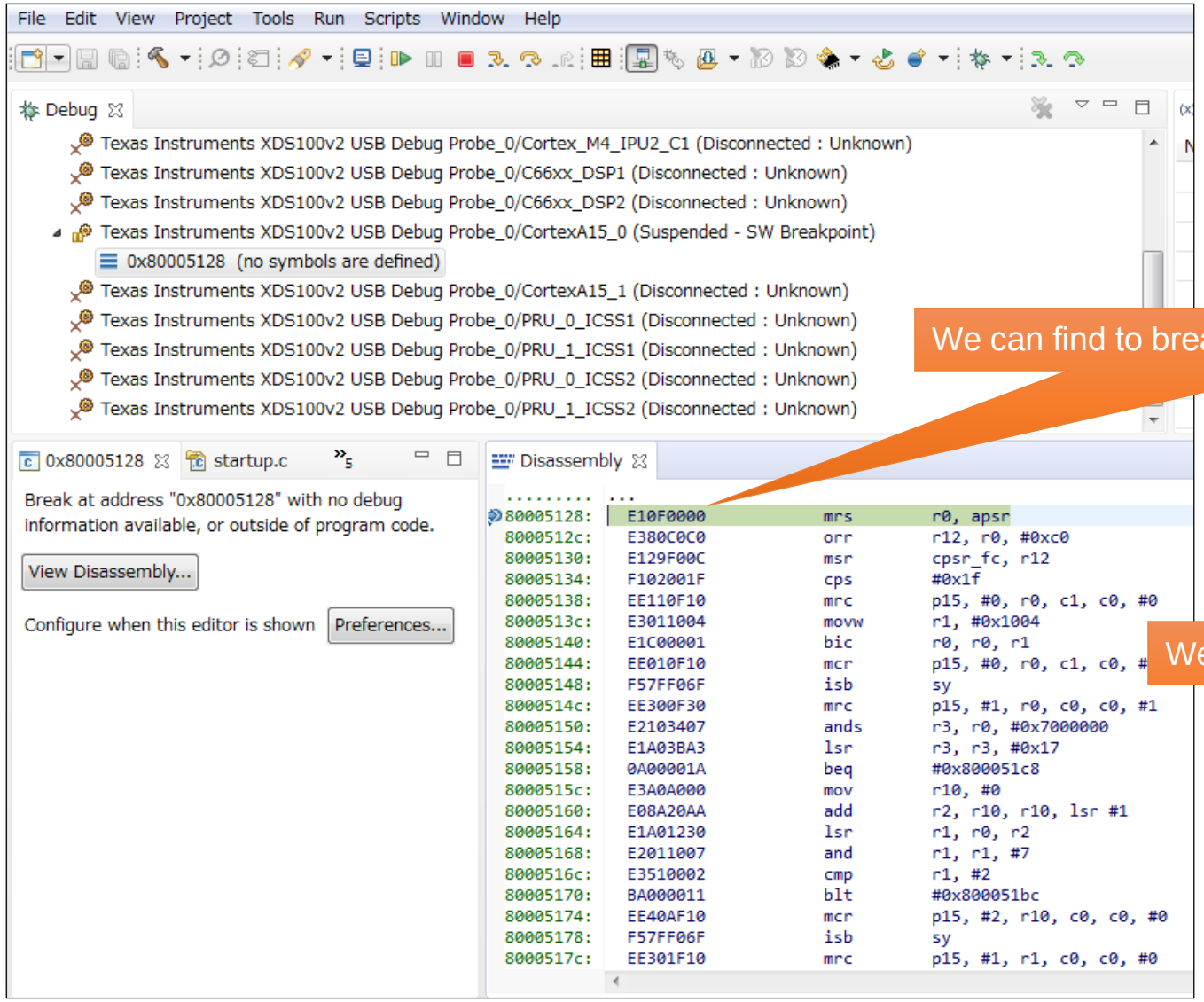
Import&build: CCS project “GPIO_LedBlink_idkAM574x_armTestProject”

We found “boot.aa15fg” in map file.
(it seems to be link lib file from boot.asm)

c_int00 is mapped to 0x80005128

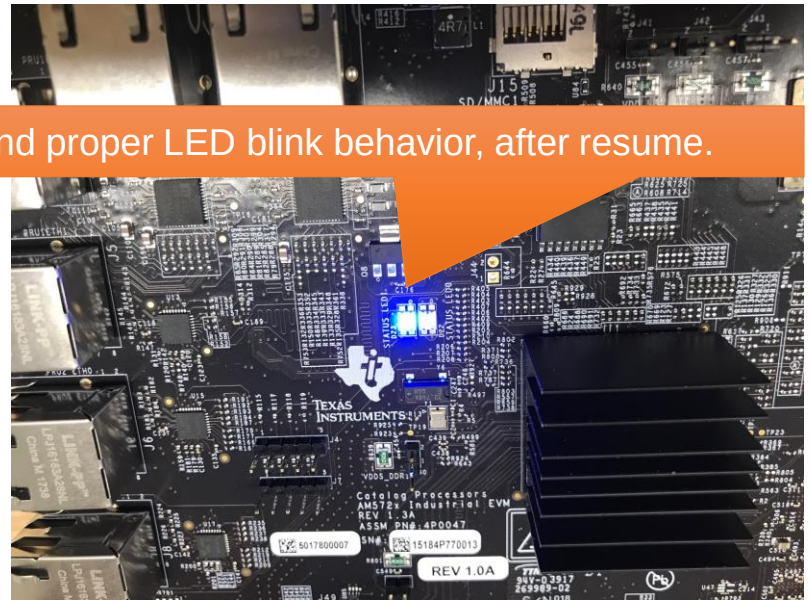


Check behavior

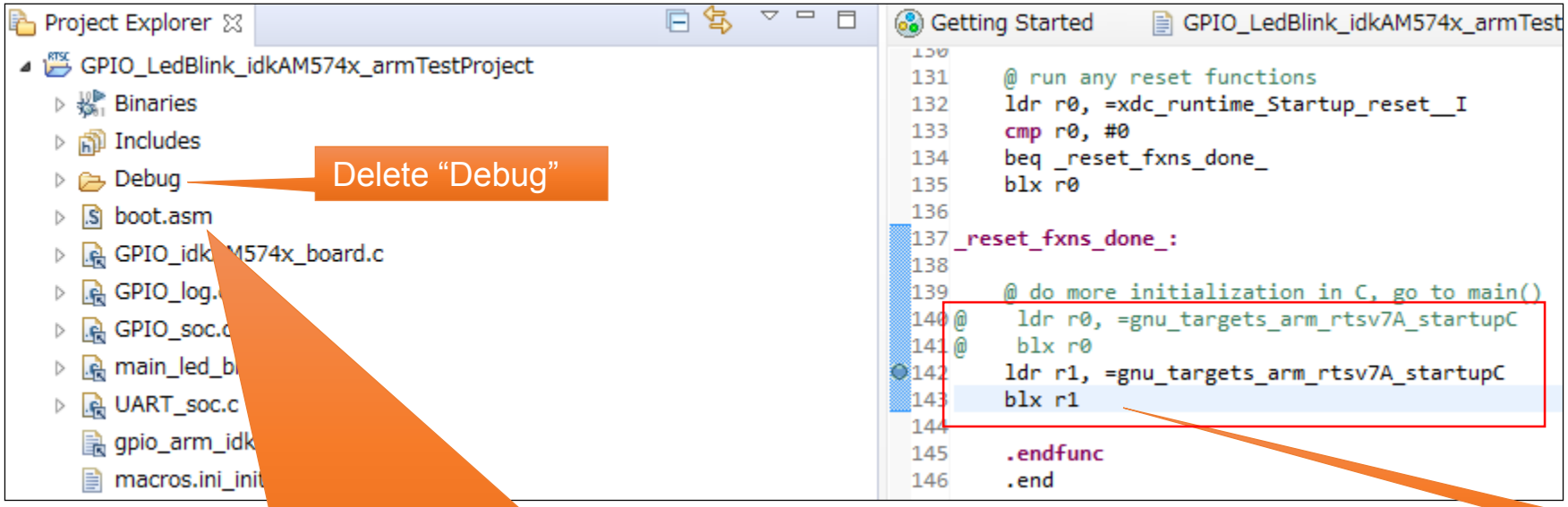


We can find to break at “0x80005128” c_int00 in boot.asm

We can find proper LED blink behavior, after resume.



Copy & modify: boot.asm -> delete Debug & Build



Delete “Debug”

Modify here

Copy from “C:¥ti¥bios_6_73_01_01¥packages¥gnu¥targets¥arm¥rtsv7A¥boot.asm”

Check behavior

Debug

Texas Instruments XDS100v2 USB Debug Probe_0/ARM9_ICONT1 (Disconnected : Unknown)
Texas Instruments XDS100v2 USB Debug Probe_0/ARM9_ICONT2 (Disconnected : Unknown)
Texas Instruments XDS100v2 USB Debug Probe_0/Cortex_M4_IPU1_C0 (Disconnected : Unknown)
Texas Instruments XDS100v2 USB Debug Probe_0/Cortex_M4_IPU1_C1 (Disconnected : Unknown)
Texas Instruments XDS100v2 USB Debug Probe_0/Cortex_M4_IPU2_C0 (Disconnected : Unknown)
Texas Instruments XDS100v2 USB Debug Probe_0/Cortex_M4_IPU2_C1 (Disconnected : Unknown)
Texas Instruments XDS100v2 USB Debug Probe_0/C66xx_DSP1 (Disconnected : Unknown)
Texas Instruments XDS100v2 USB Debug Probe_0/C66xx_DSP2 (Disconnected : Unknown)
Texas Instruments XDS100v2 USB Debug Probe_0/CortexA15_0 (Suspended - SW Breakpoint)
() at boot.asm:143 0x80005250 (no symbols are defined)

Variables | Expressions | Registers

Name	Value
Core Registers	
PC	0x80005250
SP	0x8104B668
LR	0x80005EEC
CPSR	0x000001DF
R0	0x80000000
R1	0x80020B48
R2	0x00000

R1 is updated properly

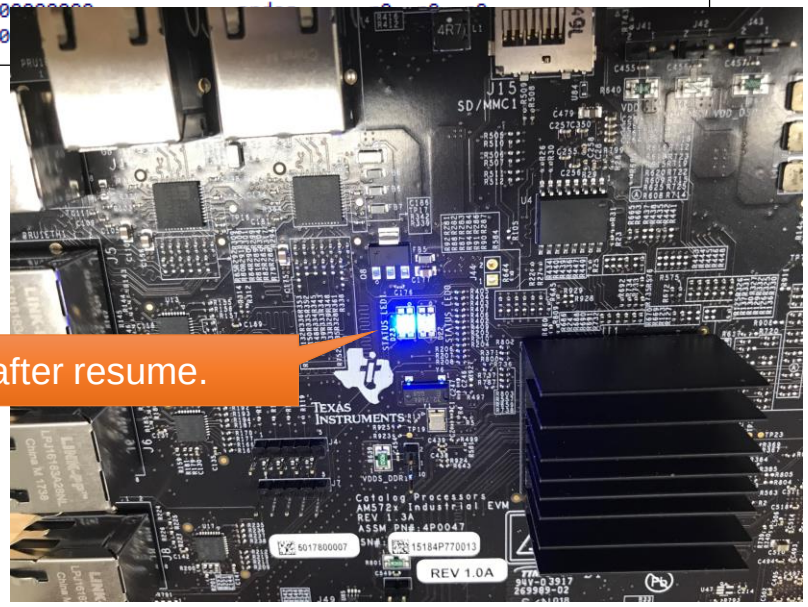
main_led_bl... | startup.c | boot.asm | boot.asm | Exception_as... | 0x3808c

```
138
139     @ do more initialization in C, go to main()
140 @    ldr r0, =gnu_targets_arm_rtsv7A_startupC
141 @    blx r0
142     ldr r1, =gnu_targets_arm_rtsv7A_startupC
143     blx r1
144
145     .endfunc
146     .end
147
```

Break here in boot.asm

Disassembly

```
8000524c:   E59F100C        ldr     r1, [pc, #0xc]
80005250:   E12FFF31        blx     r1
80005254:   8102B668        .word   0x8102b668
80005258:   00020000        andeq   r0, r2, r0
8000525c:   80005ED8        ldrdhi  r5, r6, [r0], -r8
80005260:   80020B48        andhi   r0, r2, r8, asr #22
80005264:   00000000        andeq   r0, r0, r0
80005268:   0
8000526c:   0
```



We can find proper LED blink behavior, after resume.