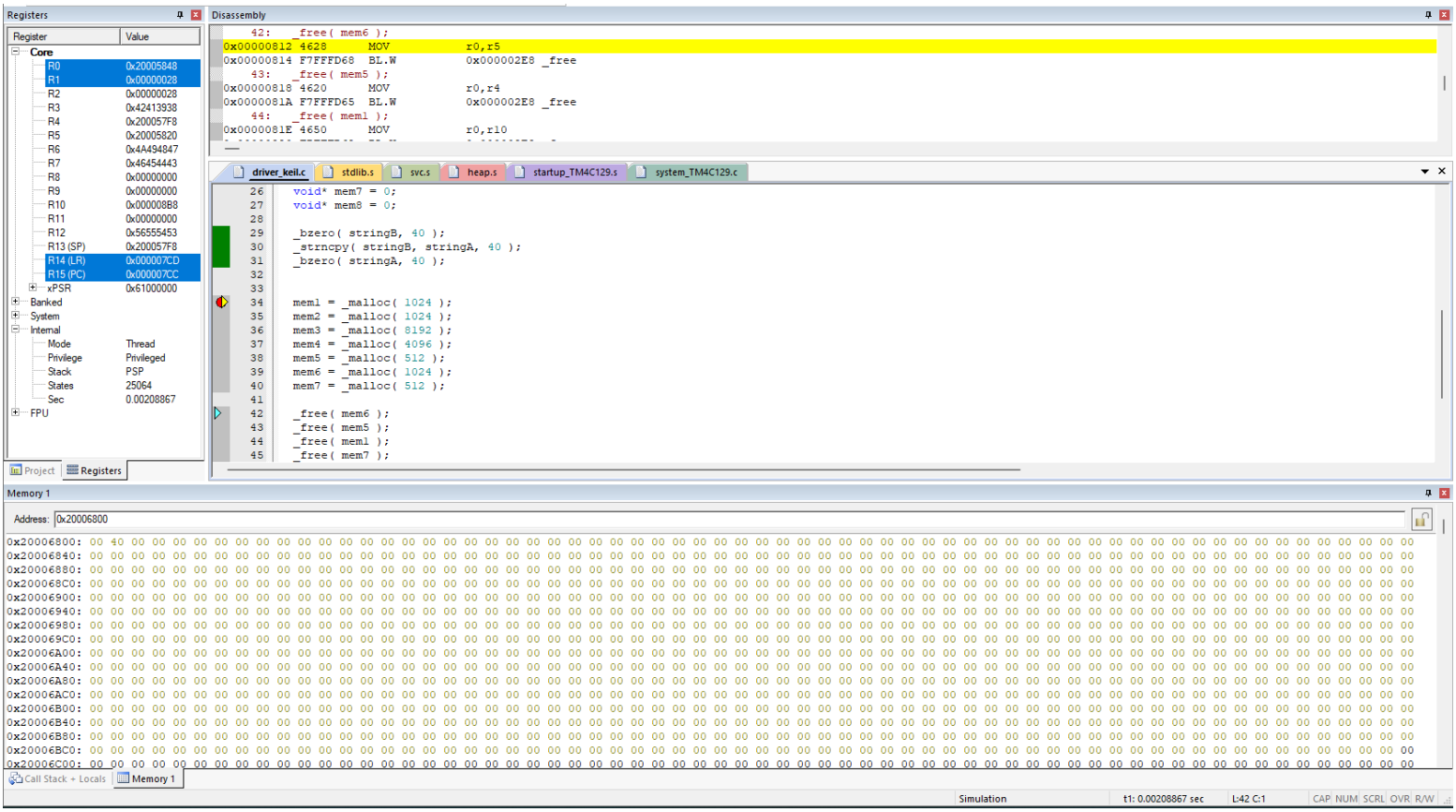
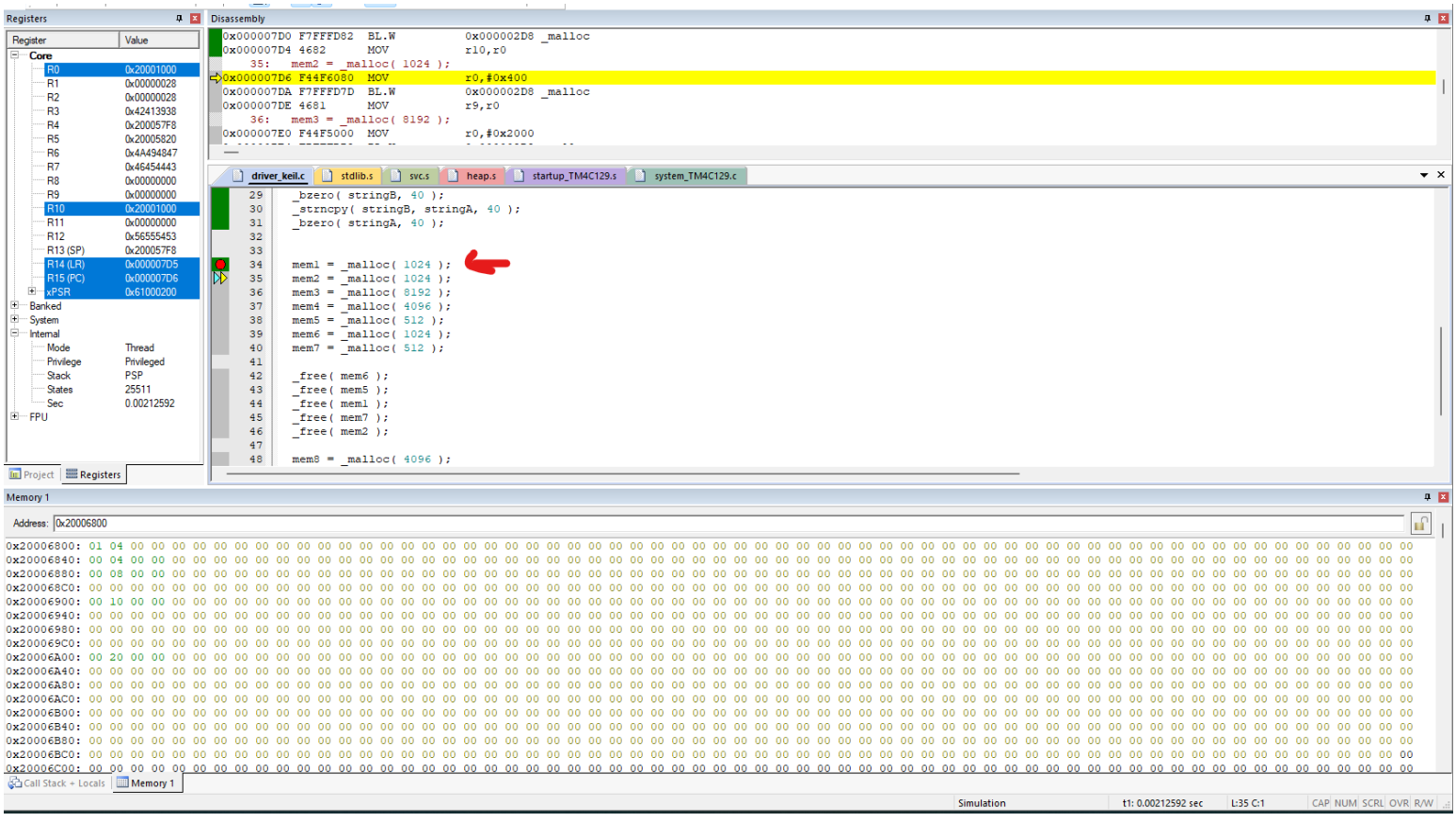
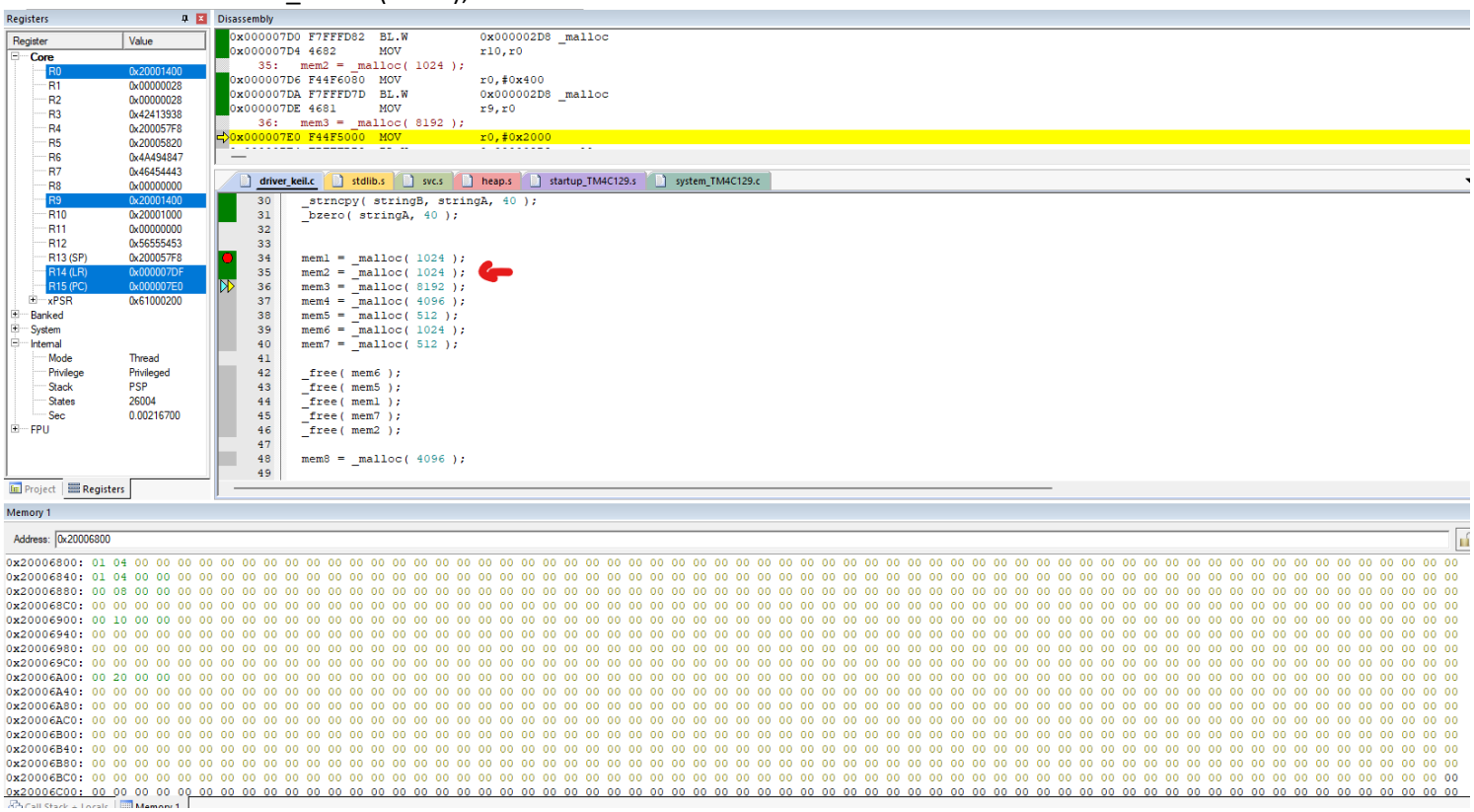
BEFORE void* mem1 = _malloc(1024);



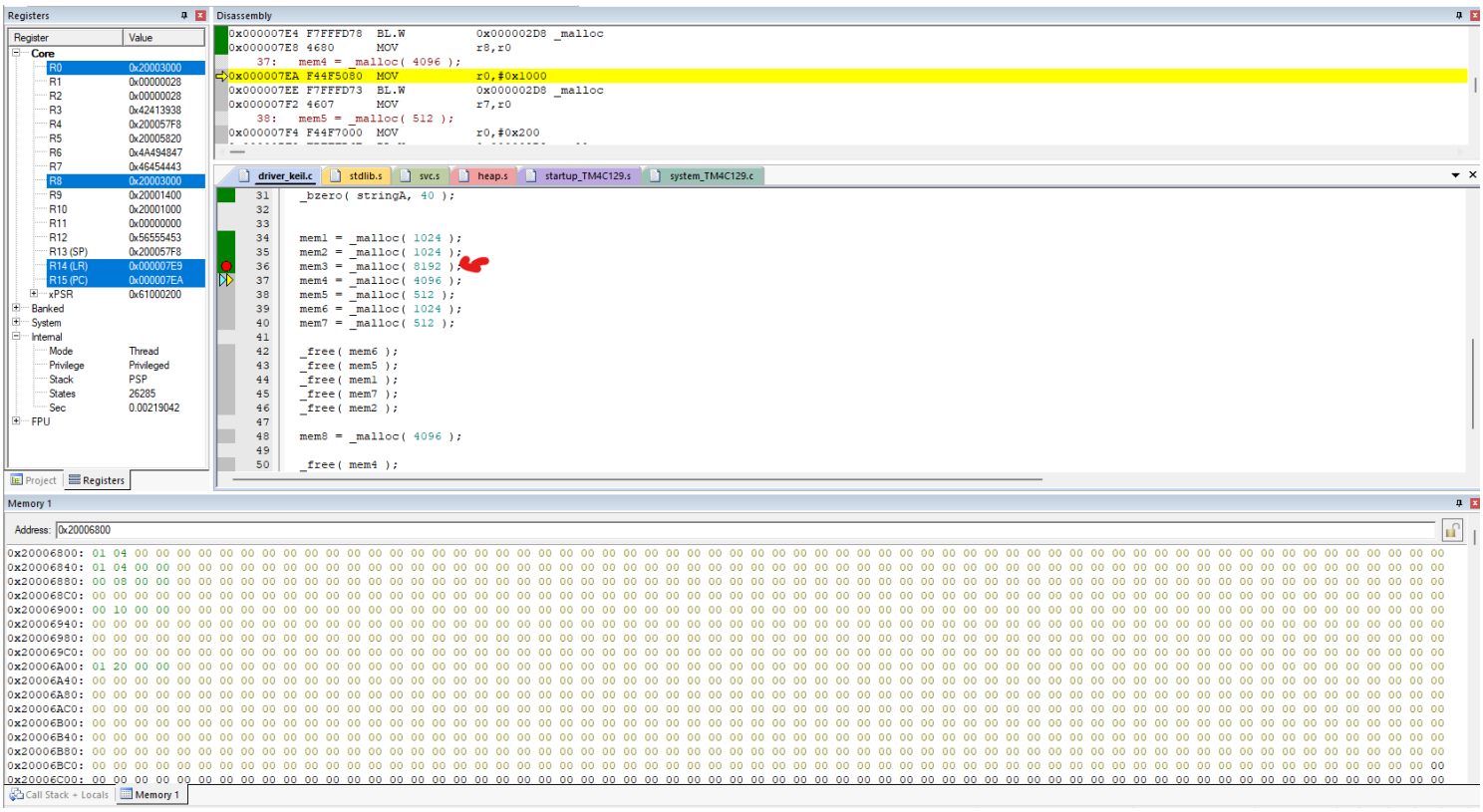
void* mem1 = _malloc(1024);



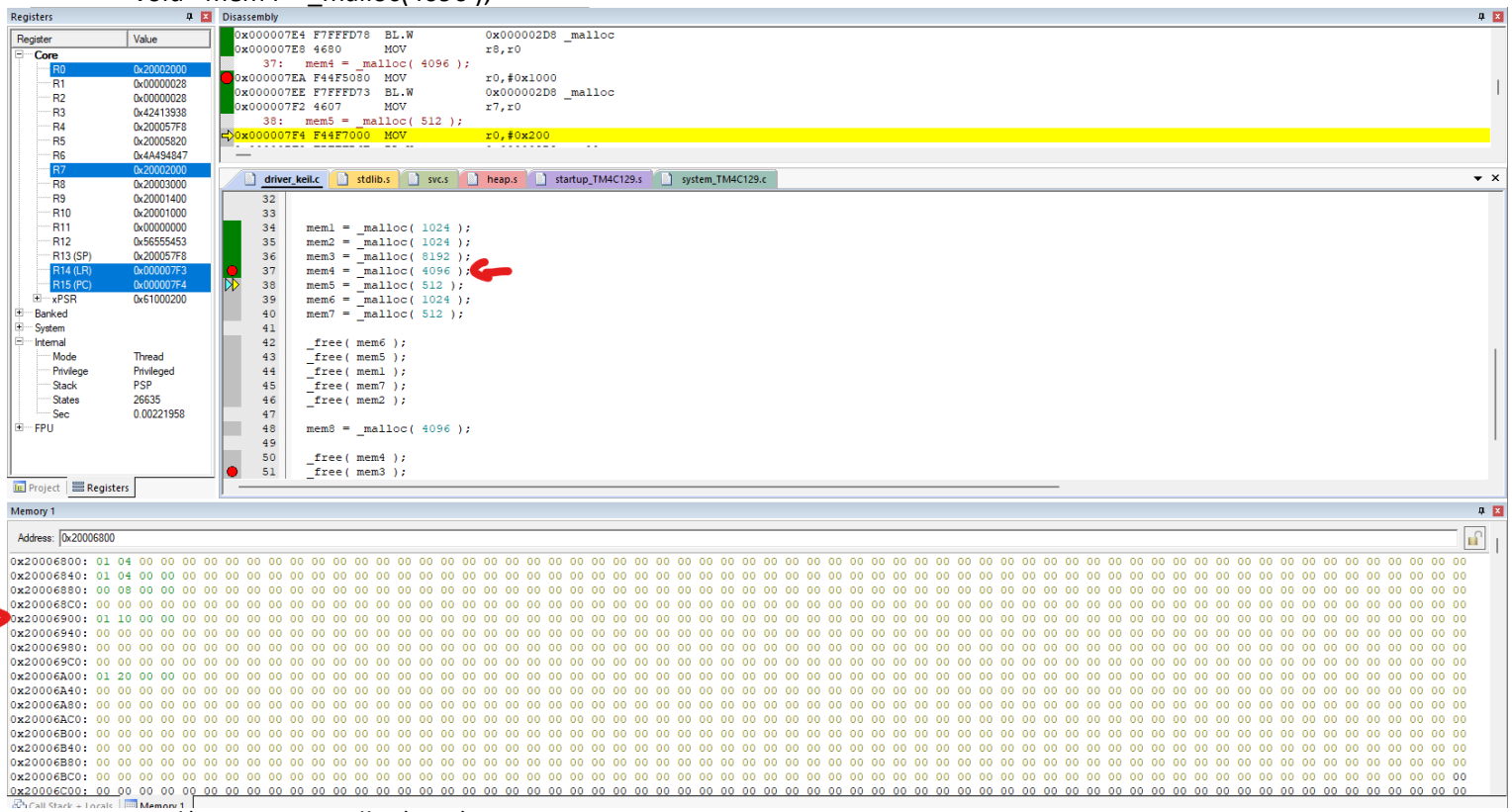
void* mem2 = _malloc(1024);



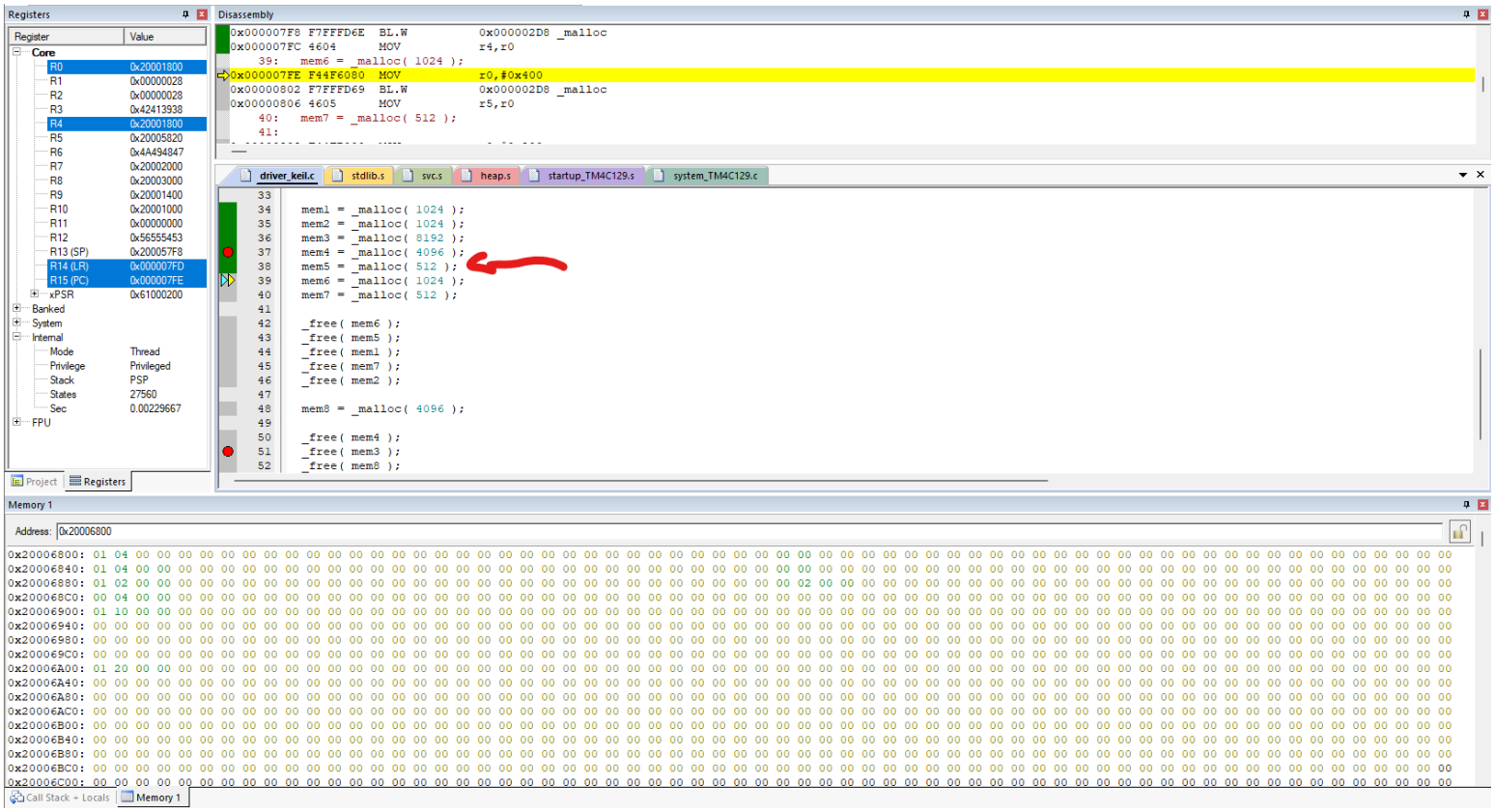
void* mem3 = _malloc(8192);



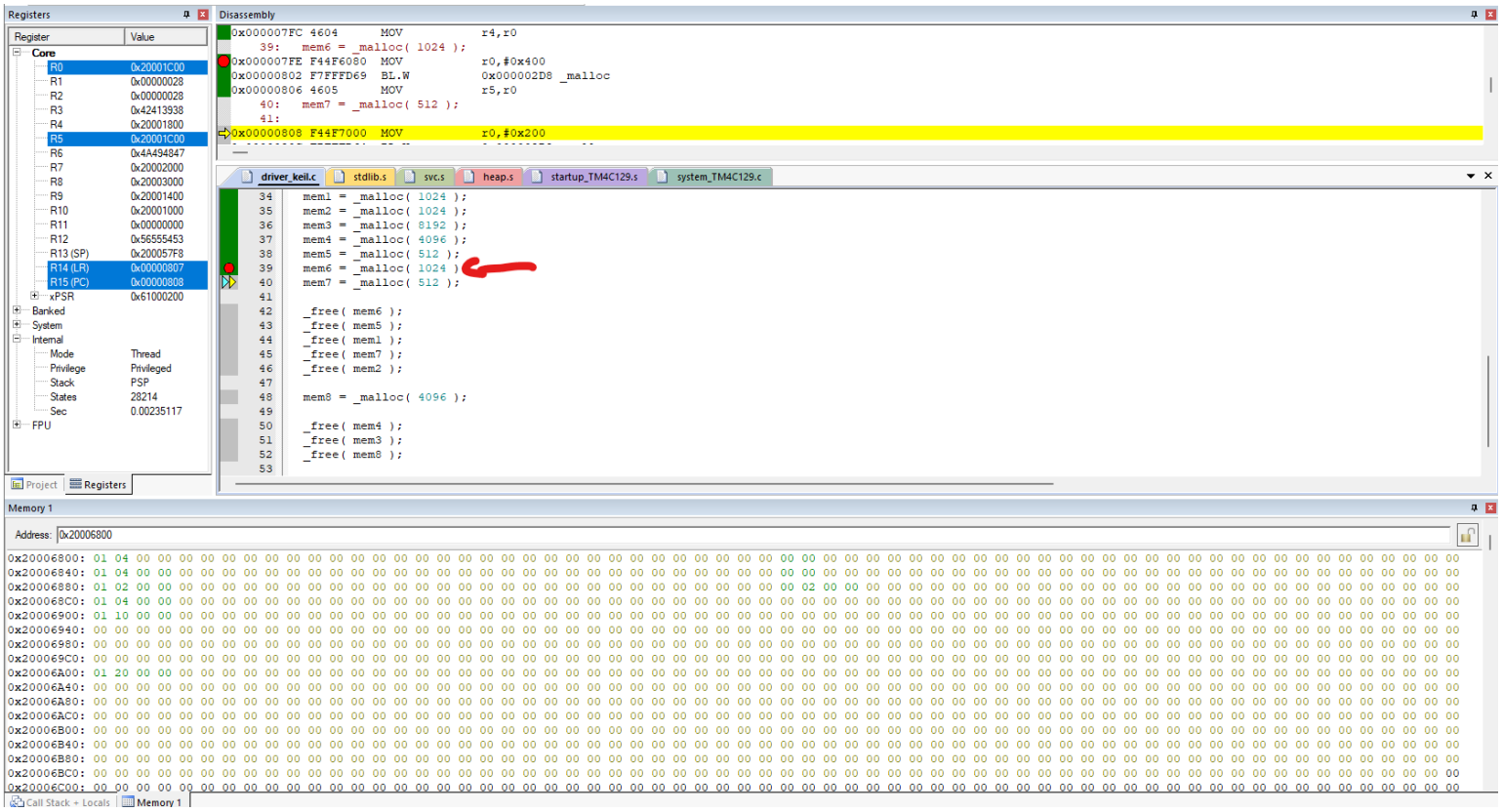
void* mem4 = _malloc(4096);



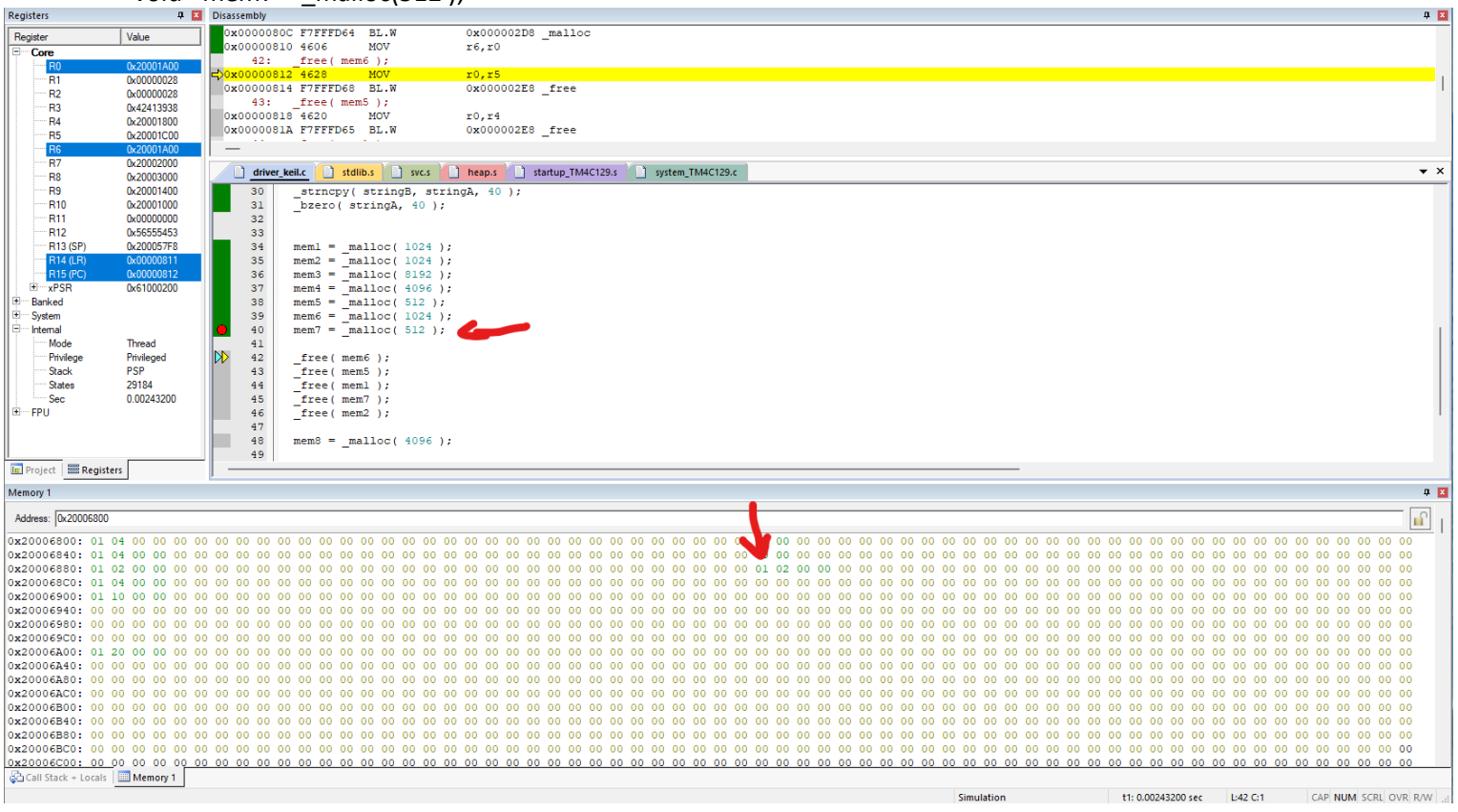
void* mem5 = _malloc(512);



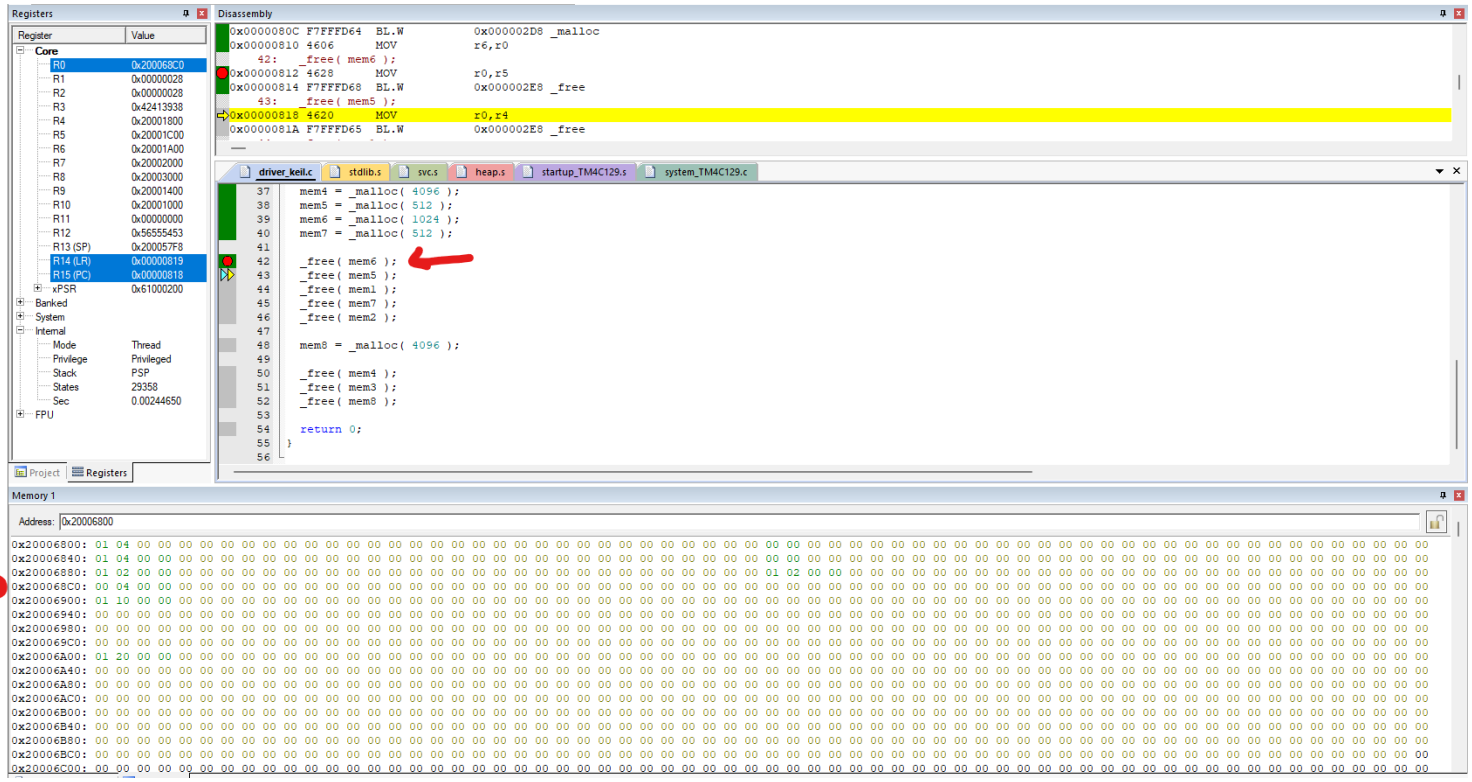
void* mem6 = _malloc(1024);



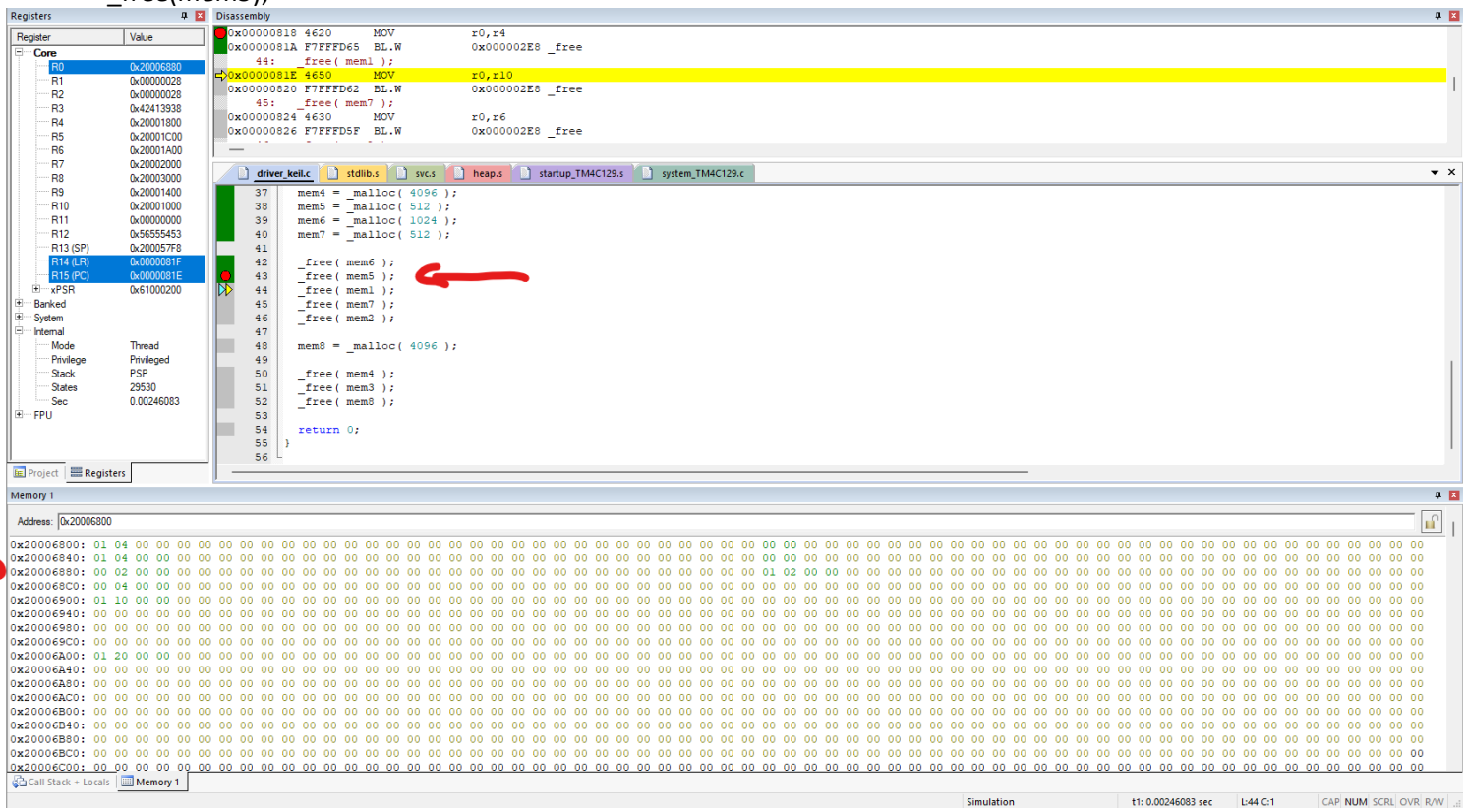
void* mem7 = _malloc(512);



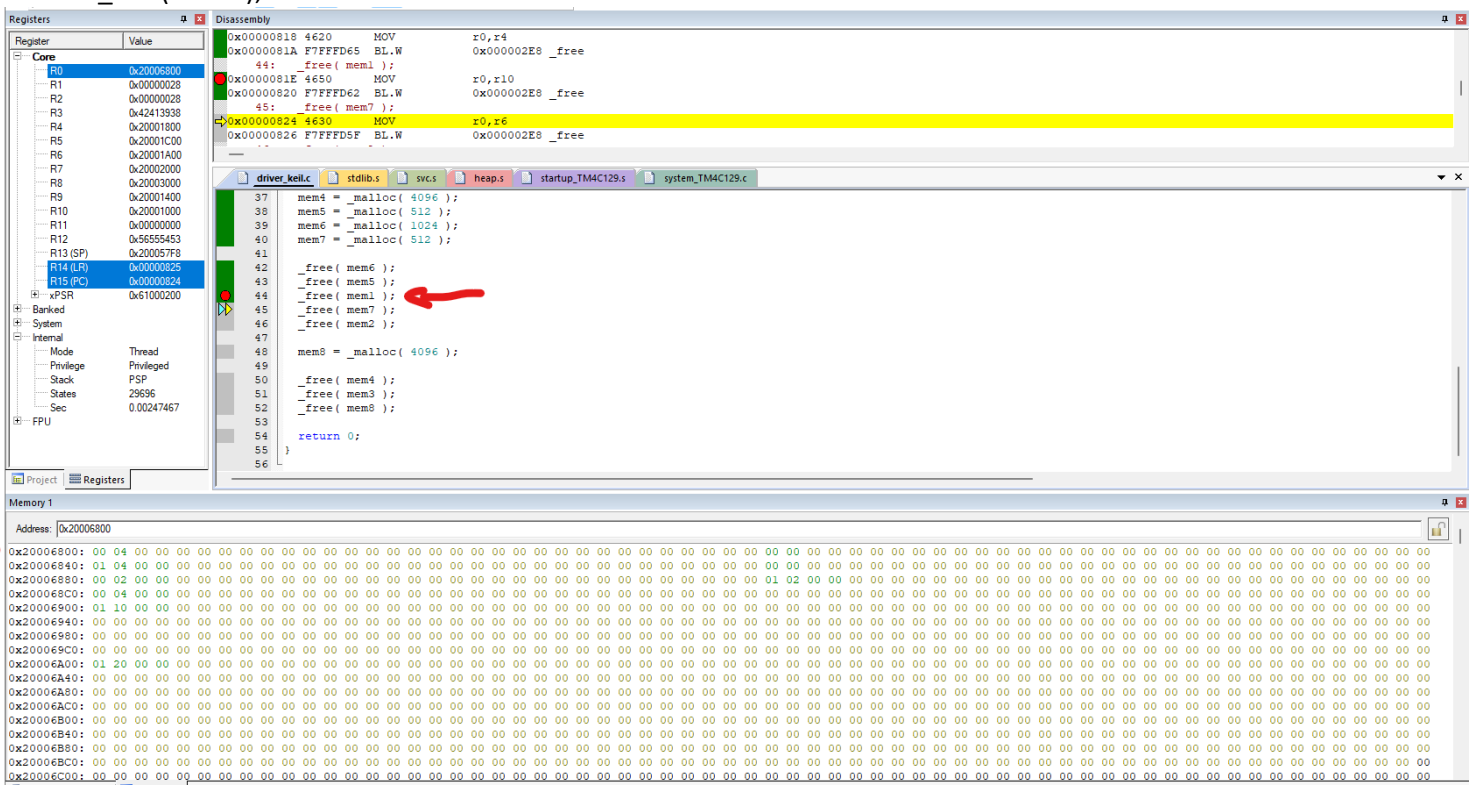
_free(mem6);



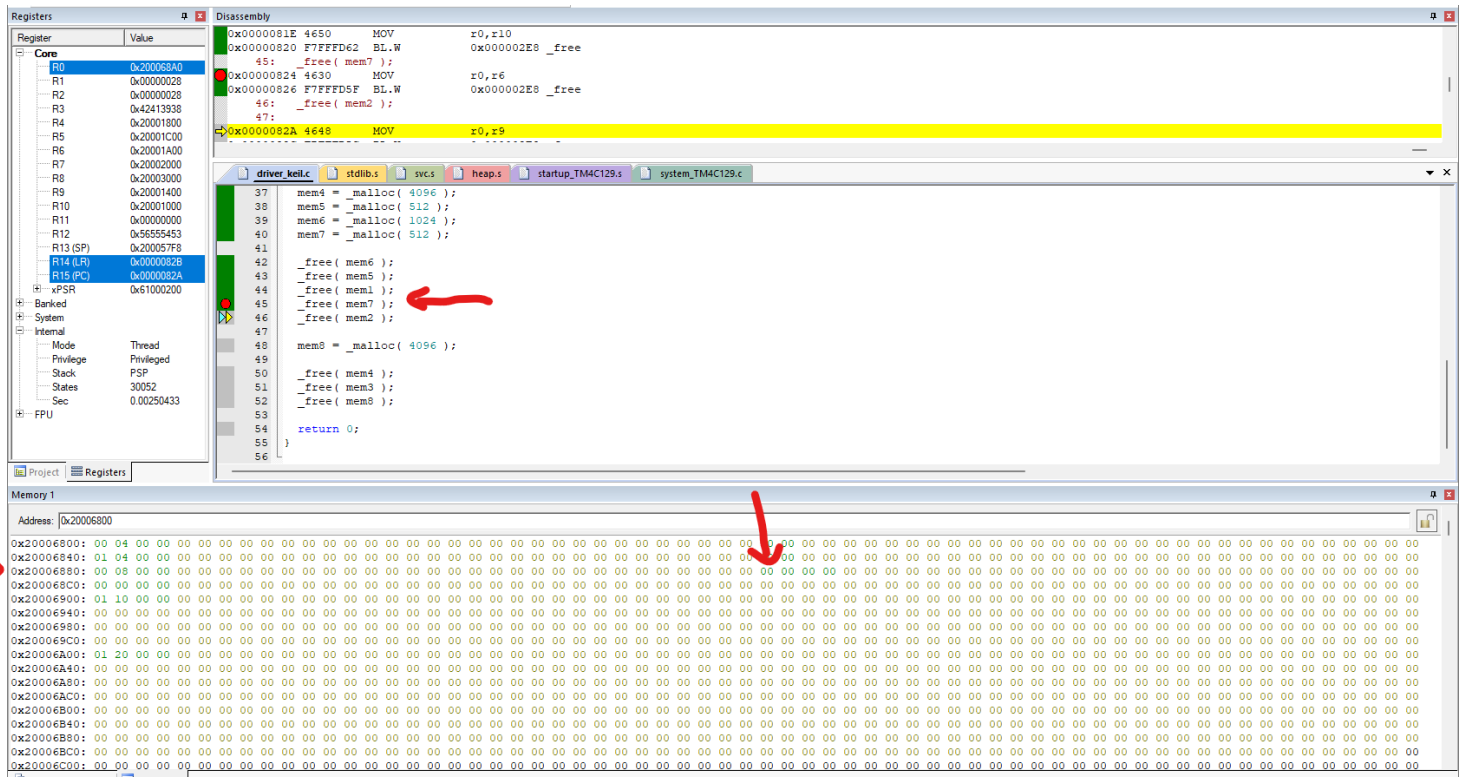
_free(mem5);



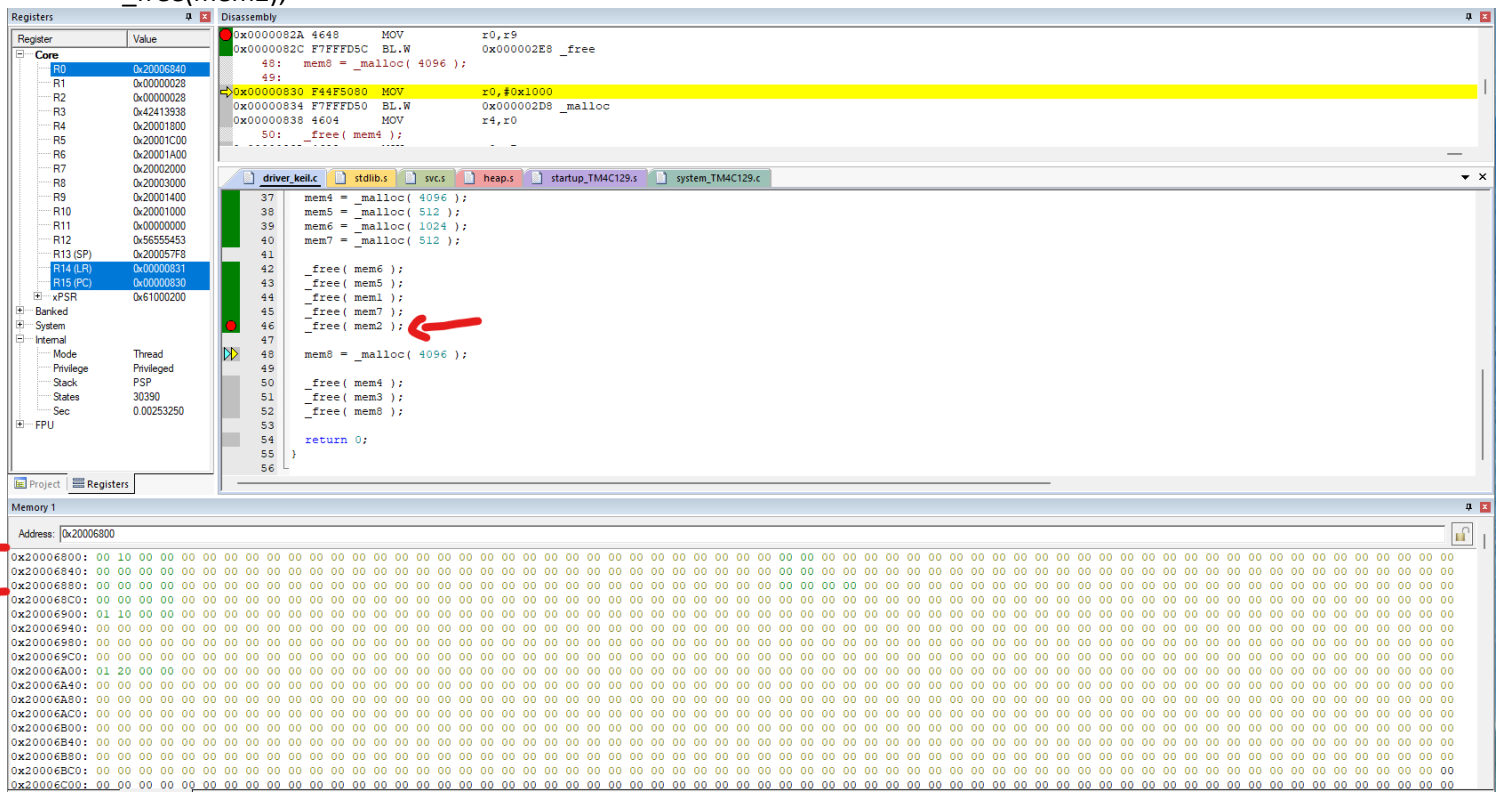
_free(mem1);



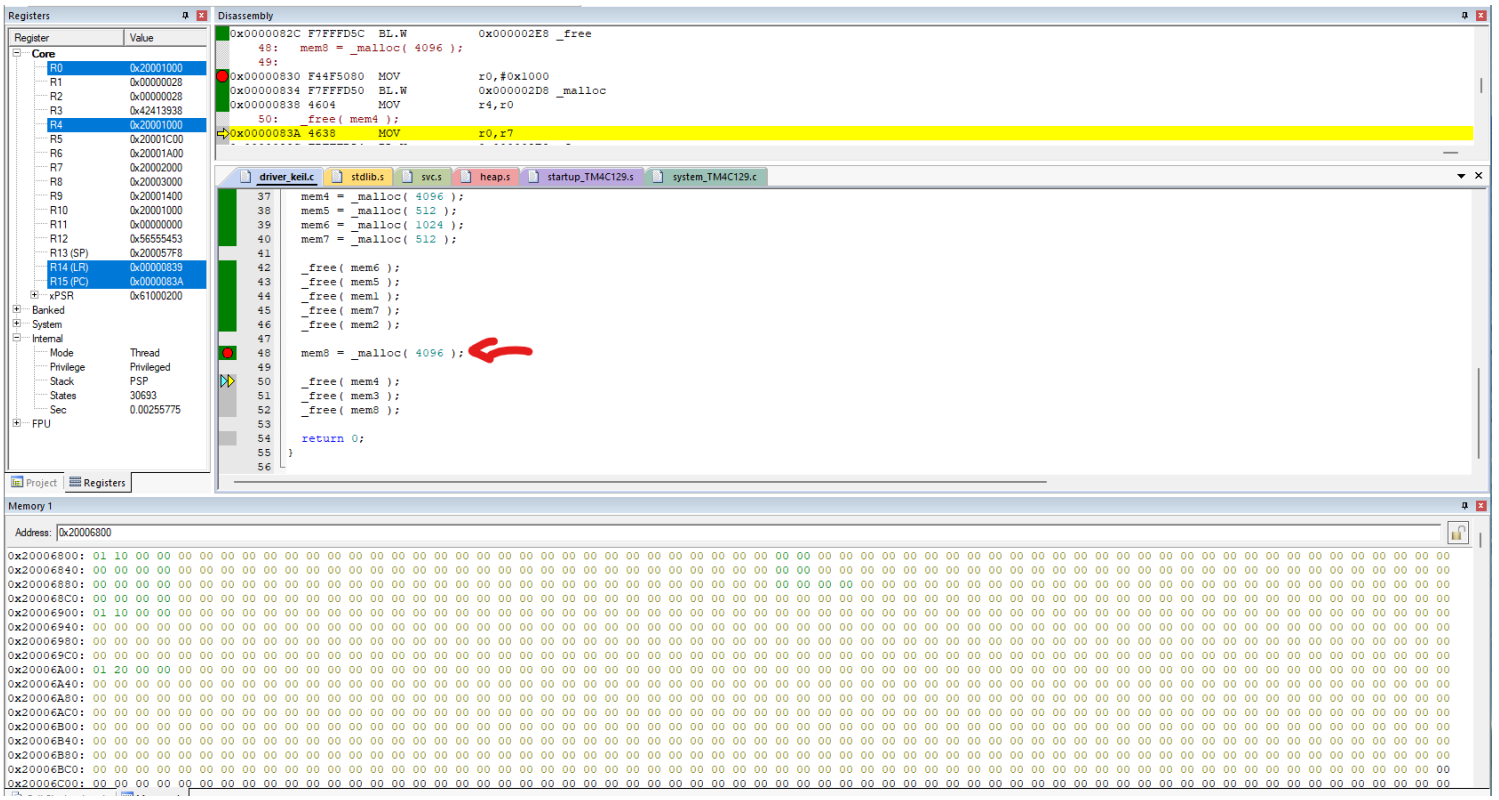
_free(mem7);



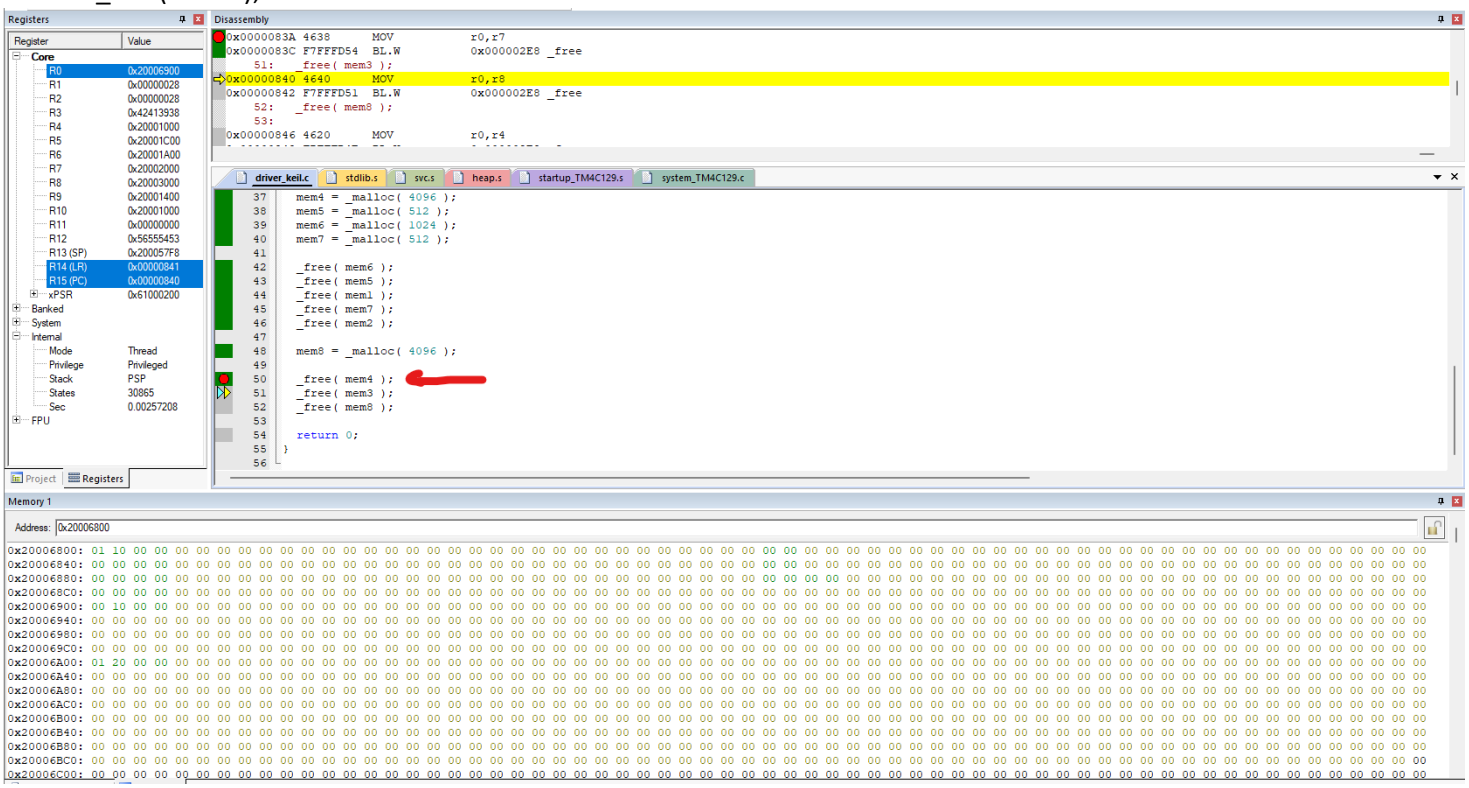
_free(mem2);



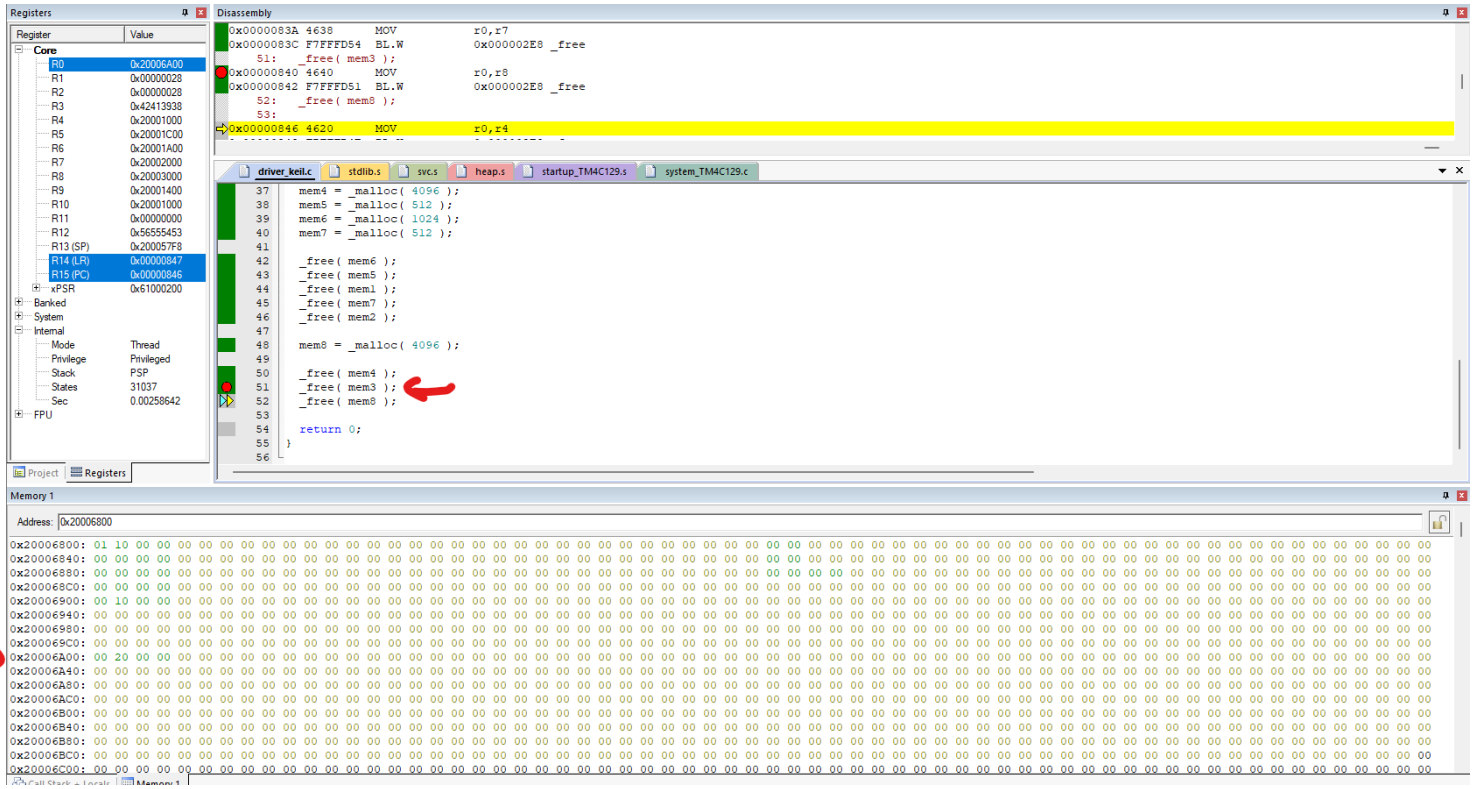
void* mem8 = _malloc(4096);



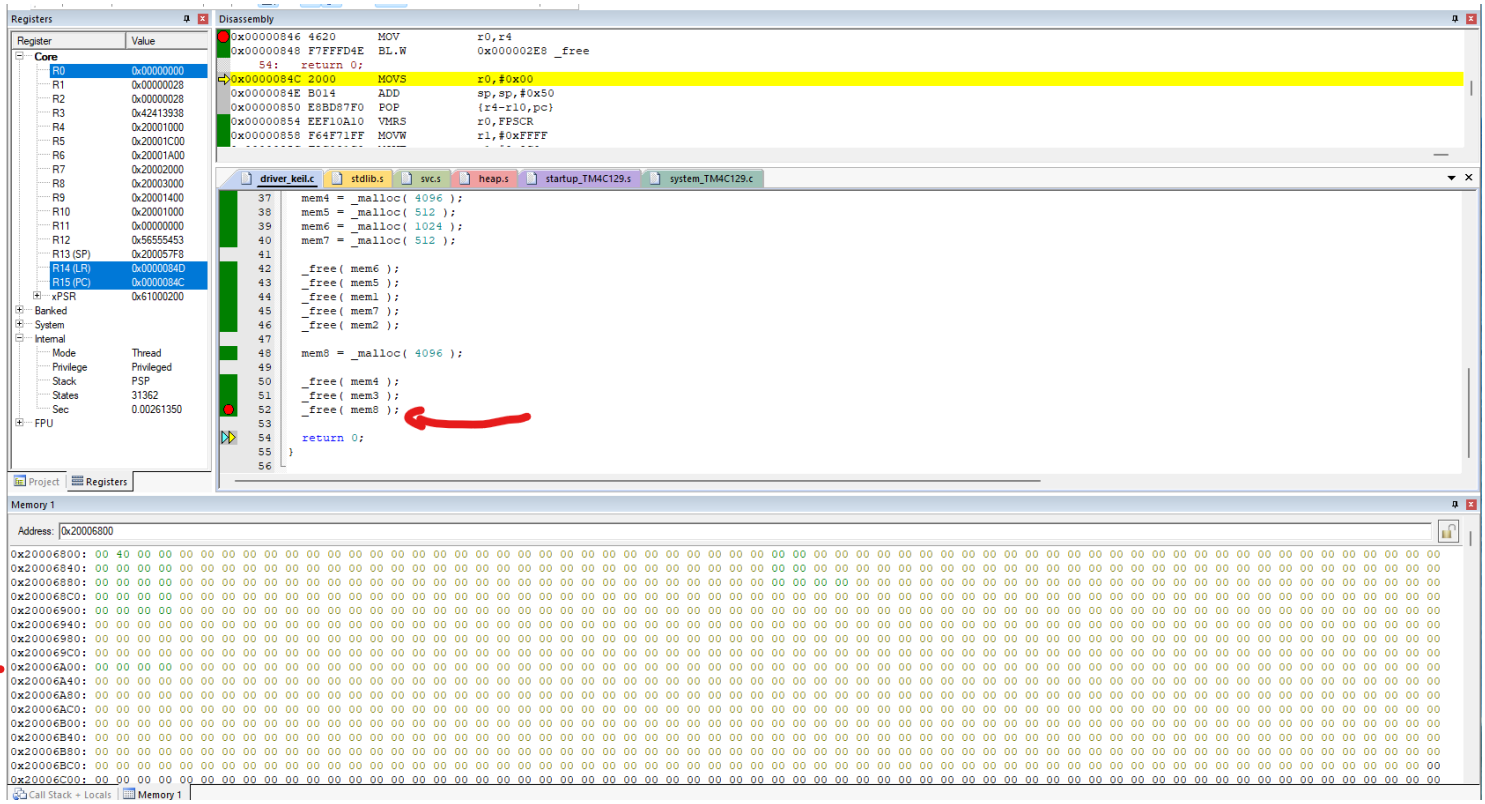
_free(mem4);



_free(mem3);



_free(mem8);


Registers
Register
Value
Core
R0 0x00000000
R1 0x00000028
R2 0x00000028
R3 0x42413938
R4 0x20001000
R5 0x20001C00
R6 0x20001A00
R7 0x20002000
R8 0x20003000
R9 0x20001400
R10 0x20001000
R11 0x00000000
R12 0x56555453
R13 (SP) 0x200057F8
R14 (LR) 0x0000084D
R15 (PC) 0x0000084C
xPSR 0x61000200
Banked
System
Internal
Mode Thread
Privilege Privileged
Stack PSP
States 31362
Sec 0.00261350
FPU
Project
Registers
Disassembly
0x00000846 4620 MOV r0,r4
0x00000848 F7FFFD4E BL.W 0x000002E8 _free
54: return 0;
0x0000084C 2000 MOVS r0,#0x00
0x0000084E B014 ADD sp,sp,#0x50
0x00000850 E8BD87F0 POP {r4-r10,pc}
0x00000854 EEF10A10 VMRS r0,FPSCR
0x00000858 F64F71FF MOVW r1,#0xFFFF
driver_keil.c
stdlib.s
svc.s
heap.s
startup_TM4C129.s
system_TM4C129.c
37 mem4 = _malloc(4096);
38 mem5 = _malloc(512);
39 mem6 = _malloc(1024);
40 mem7 = _malloc(512);
41
42 _free(mem6);
43 _free(mem5);
44 _free(mem1);
45 _free(mem7);
46 _free(mem2);
47
48 mem8 = _malloc(4096);
49
50 _free(mem4);
51 _free(mem3);
52 _free(mem8);
53
54 return 0;
55 }
56
Memory 1
Address: 0x20006800
0x20006800: 00 40 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0x20006840: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0x20006880: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0x200068C0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0x20006900: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0x20006940: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0x20006980: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0x200069C0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0x20006A00: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0x20006A40: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0x20006A80: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0x20006AC0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0x20006B00: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0x20006B40: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0x20006B80: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0x20006BC0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
0x20006C00: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
Call Stack + Locals
Memory 1