

Output:

C:\Users\Ajith S\OneDrive\Desktop\Ajay\micro.uvproj - uVision4

File Edit View Project Flash Debug Peripherals Tools SVCS Window Help

Registers

| Register | Value |
|----------|---------|
| R0 | 0x40... |
| R1 | 0x40... |
| R2 | 0x40... |
| R3 | 0x40... |
| R4 | 0x00... |
| R5 | 0x40... |
| R6 | 0x00... |
| R7 | 0x00... |
| R8 | 0x00... |
| R9 | 0x00... |
| R10 | 0x00... |
| R11 | 0x00... |
| R12 | 0x00... |
| R13 (SP) | 0x40... |
| R14 (LR) | 0x00... |
| R15 (PC) | 0x00... |
| CPSR | 0x60... |
| SPSR | 0x00... |

Disassembly

```
11: PINSEL0 = 0;
0x00000138 E3A00000 MOV R0,#0x00000000
0x0000013C E59F1614 LDR R1,[PC,#0x0614]
0x00000140 F5810000 STR R0,R11
```

ajay.c

```
6 for (j = 0; j < 1000; j++);
7 }
8 }
9
10 int main() {
11     PINSEL0 = 0;
12     IODIRO = 0X003FFFFFFF;
13
14     while (1) {
15         if ((IOPINO & (1 << 22)) == 0) {
16             IOSET0 |= (1 << 19);
17             IOCLR0 |= (1 << 7) | (1 << 8) | (1 << 9) | (1 << 10) | (1 << 11) | (1 << 12) | (1 << 13);
18
19             // segment A //9
20             IOSET0 |= (1 << 18);
21             IOCLR0 |= (1 << 16);
22             IOSET0 |= (1 << 0) | (1 << 1) | (1 << 2) | (1 << 3) | (1 << 5) | (1 << 6);
23             IOCLR0 |= (1 << 4);
```

Command

Call Stack + Locals

| Name | Location/Value | Type |
|------|----------------|---------|
| main | 0x00000138 | int f() |

ASSIGN BreakDisable BreakEnable BreakKill BreakList BreakSet BreakAccess

Call Stack + Locals Memory 1

Real-Time Agent: Target Reset Simulation

tt: 0.00007217 sec L:11 C:1 CAP NUM SCRL OVR R/W

15:41 01-06-2025