

## File Control

Step Run Stop

Reset

State: stopped

## CPU Registers CP15

CPU Mode: System

USR/SYS FIQ SVC ABT IRQ UDN

HEX U32 S32

Register Value

R0	00000001
R1	00000000
R2	00000001
R3	0000028F
R4	00000004
R5	0000CE4C
R6	0000CE50
R7	00008040
R8	0000CE24
R9	0000B854
R10	00000000
R11	00004F40
R12	200000DF
R13 (LR)	0000D010
R14 (SP)	00004F34
R15 (PC)	0000D01C
CPSR	2000005F

Flags in CPSR

N	Z	C	V	A	I	F
0	0	1	0	0	0	1

## Source Code Disassembly

0x0000CFFC	0xEAFFFFF4	b #0xcfd4
0x0000D000	0xE3A02001	mov r2, #1
0x0000D004	0xE59F104C	ldr r1, [pc, #0x4c]
0x0000D008	0xE51B0008	ldr r0, [fp, #-8]
0x0000D00C	0xEB000145	bl #0xd528
0x0000D010	0xE3A03000	mov r3, #0
0x0000D014	0xE50B300C	str r3, [fp, #-0xc]
0x0000D018	0xE51B300C	ldr r3, [fp, #-0xc]
0x0000D01C	0xE3530B01	cmp r3, #0x400
0x0000D020	0xB3A03001	movlt r3, #1
0x0000D024	0xA3A03000	movge r3, #0
0x0000D028	0xE6EF3073	uxtb r3, r3
0x0000D02C	0xE3530000	cmp r3, #0
0x0000D030	0x0AFFFE1	beq #0xcfb
0x0000D034	0xE51B300C	ldr r3, [fp, #-0xc]
0x0000D038	0xE2833001	add r3, r3, #1
0x0000D03C	0xE50B300C	str r3, [fp, #-0xc]
0x0000D040	0xEAFFFFF4	b #0xd018
0x0000D044	0x0000E11C	andeq lr, r0, ip, lsl r0, #1
0x0000D048	0x0000E128	andeq lr, r0, r8, lsr r8, #1

## Logs

Options Clear Copy

```
[debug][interrupt_controller.cpp:264] Basic IRQ ARM_Timer has been signaled
[warning][core.cpp:367] IRQ exception
[debug][interrupt_controller.cpp:264] Basic IRQ ARM_Timer has been signaled
[warning][core.cpp:367] IRQ exception
[debug][interrupt_controller.cpp:264] Basic IRQ ARM_Timer has been signaled
[warning][core.cpp:367] IRQ exception
[debug][interrupt_controller.cpp:264] Basic IRQ ARM_Timer has been signaled
[warning][core.cpp:367] IRQ exception
[info][control_window.cpp:200] CPU execution has stopped
```

## RAM GPIO IC ARM timer Monitor

Debug monitor: 80x25 8-bit characters

```
1: finding child = segd
2: child was not found
3: creating: segd
4: Finished FS initialization
5:
6: Created process with pid 1 (SP = 0x21000)
7: Created process with pid 2 (SP = 0x28000)
8: Created process with pid 3 (SP = 0x20000)
9:
10:
11:
12:
13:
14:
15:
16:
17:
18:
19:
20: process 2 file descriptor (rmdir)= 1
21: 4182943069opening file: DEV:gpio/18
```

SOS btn

GPIO pin: 16

Press

## SSD1036 OLED

SSD1306 OLED display (128x32 pxls)  
I2C addr = 0x3C (60 dec)

My favourite sport is  
ARM wrestling

## SOS LED

GPIO pin: 18

R: 23 G:255 B: 0 Color



## 7-segment display

shift register: 00000000

Latch pin: 22

Data pin: 27

Clock pin: 10

