

C:\Keil_v5\Projects\Ex4\ex4.uvproj - µVision

File Edit View Project Flash Debug Peripherals Tools SVCS Window Help

Registers

Register	Value
R0	0xFCD2478D
R1	0x00000027
R2	0xFE072F9
R3	0xFE31D5E4
R4	0x00000019
R5	0x40000000
R6	0x00000027
R7	0xFFFFFFFF
R8	0x00000000
R9	0x00000000
R10	0x00000000
R11	0x00000000
R12	0x0000009C
R13 (SP)	0x00000000
R14 (LR)	0x00000038
R15 (PC)	0x000000DC
CPSR	0xA00000D3
SPSR	0x00000000

Disassembly

```
107:      B TAMAM
0x000000DC  EFFFFFFE  B      0x000000DC
0x000000E0  00000000  ANDEQ  R0,R0,R0
0x000000F4  00000000  ANDRO  R0,R0,R0

MyFunction.s
92
93 RETURN_ZERO
94 MOV R0,#0
95 MOV PC,LR
96
97 RETURN_ONE
98 MOV R0,#1
99 MOV PC,LR
100
101 RETURN_TWO
102 MOV R0,#2
103 MOV PC,LR
104
105
106 TAMAM
107 B TAMAM
108
109
110 END
```

Memory 1

Address	Value
0x40000000	00 00 00 00
0x40000004	00 00 00 00
0x40000008	00 00 00 00
0x4000000C	FD FF FF FF
0x40000010	0A 00 00 00
0x40000014	E9 FF FF FF
0x40000018	EC FF FF FF
0x4000001C	DD FF FF FF
0x40000020	96 FF FF FF
0x40000024	85 FF FF FF
0x40000028	18 FF FF FF
0x4000002C	71 FE FF FF
0x40000030	DA FD FF FF
0x40000034	51 FC FF FF
0x40000038	64 FA FF FF
0x4000003C	A5 F7 FF FF
0x40000040	9E F2 FF FF
0x40000044	FD EB FF FF
0x40000048	70 E1 FF FF
0x4000004C	B9 D0 FF FF
0x40000050	E2 B8 FF FF
0x40000054	09 93 FF FF
0x40000058	BC 59 FF FF
0x4000005C	2D 04 FF FF
0x40000060	26 7F FE FF
0x40000064	F5 B6 FD FF
0x40000068	C8 86 FC FF
0x4000006C	81 B4 FA FF
0x40000070	EA F3 F7 FF
0x40000074	41 C1 F3 FF
0x40000078	14 5C ED FF
0x4000007C	35 A8 E3 FF
0x40000080	AE DD D4 FF
0x40000084	6D 5F BE FF
0x40000088	20 2D 9C FF
0x4000008C	C9 19 68 FF
0x40000090	F3 F3 18 FF

Command

```
*** error 35: undefined line number
BS \\ex4\MyFunction.s\23
BS \\ex4\MyFunction.s\38
BS \\ex4\MyFunction.s\36
BS \\ex4\MyFunction.s\39
```

ASSIGN BreakDisable BreakEnable BreakKill BreakList BreakSet BreakAccess COVERAGE COVTOFILE DEFINE DIR Display Enter EVALUATE

Real-Time Agent: Target Stopped Simulation t1: 0.00075025 sec L107 C:1 CAP NUM SCRL OVR/ R/W

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R13 (SP)	0x00000000
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R15 (PC)	0x000000DC
CPSR	0xA00000D3
SPSR	0x00000000

Disassembly

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107:      B TAMAM
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0x000000E0  00000000  ANDEQ  R0,R0,R0
0x000000F4  00000000  ANDRO  R0,R0,R0

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101 RETURN_TWO
102 MOV R0,#2
103 MOV PC,LR
104
105
106 TAMAM
107 B TAMAM
108
109
110 END
```

Memory 1

Address	Value
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0x40000004	00 00 00 00
0x40000008	00 00 00 00
0x4000000C	FD FF FF FF
0x40000010	0A 00 00 00
0x40000014	E9 FF FF FF
0x40000018	EC FF FF FF
0x4000001C	DD FF FF FF
0x40000020	96 FF FF FF
0x40000024	85 FF FF FF
0x40000028	18 FF FF FF
0x4000002C	71 FE FF FF
0x40000030	DA FD FF FF
0x40000034	51 FC FF FF
0x40000038	64 FA FF FF
0x4000003C	A5 F7 FF FF
0x40000040	9E F2 FF FF
0x40000044	FD EB FF FF
0x40000048	70 E1 FF FF
0x4000004C	B9 D0 FF FF
0x40000050	E2 B8 FF FF
0x40000054	09 93 FF FF
0x40000058	BC 59 FF FF
0x4000005C	2D 04 FF FF
0x40000060	26 7F FE FF
0x40000064	F5 B6 FD FF
0x40000068	C8 86 FC FF
0x4000006C	81 B4 FA FF
0x40000070	EA F3 F7 FF
0x40000074	41 C1 F3 FF
0x40000078	14 5C ED FF
0x4000007C	35 A8 E3 FF
0x40000080	AE DD D4 FF
0x40000084	6D 5F BE FF
0x40000088	20 2D 9C FF
0x4000008C	C9 19 68 FF
0x40000090	F3 F3 18 FF

Command

```
*** error 35: undefined line number
BS \\ex4\MyFunction.s\23
BS \\ex4\MyFunction.s\38
BS \\ex4\MyFunction.s\36
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Real-Time Agent: Target Stopped Simulation t1: 0.00075025 sec L107 C:1 CAP NUM SCRL OVR/ R/W

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Registers

Register	Value
R0	0x00000032
R1	0x00000000
R2	0x00000000
R3	0x00000000
R4	0x00000000
R5	0x00000000
R6	0x00000000
R7	0x00000000
R8	0x00000000
R9	0x00000000
R10	0x00000000
R11	0x00000000
R12	0x00000000
R13 (SP)	0x00000000
R14 (LR)	0x00000000
R15 (PC)	0x00000000
CPSR	0x00000003
SPSR	0x00000000
User/System	
Fast Interrupt	
Interrupt	
Supervisor	
Abort	

Disassembly

```
6:      MOV R4,R0; Store it somewhere safe
->0x00000000: E1A04000  MOV     R4,R0
7:      MOV R5,#0x40000000; Start address selected regarding to "Options for target panel"
8:
```

MyFunction.s

```
1
2
3      AREA RESET, CODE, READWRITE
4      ENTRY
5
6      MOV R4,R0; Store it somewhere safe
7      MOV R5,#0x40000000; Start address selected regarding to "Options for target panel"
8
9      MAIN
10     MOV R1,#0
11     MOV R2,#0
12     FOR_ZERO ; Filling the array with zeros
13     CMP R1, #160
14     BGE DONE_ZERO
15     STR R2, [R5,R1]
16     ADD R1, #4
17     B FOR_ZERO
18     DONE_ZERO
19
20
```

Memory 1

Address	Value
0x40000000	00 00 00 00
0x40000004	00 00 00 00
0x40000008	00 00 00 00
0x4000000C	FD FF FF FF
0x40000010	0A 00 00 00
0x40000014	E9 FF FF FF
0x40000018	EC FF FF FF
0x4000001C	DD FF FF FF
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0x4000003C	A5 F7 FF FF
0x40000040	9E F2 FF FF
0x40000044	FD EB FF FF
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0x4000004C	B9 D0 FF FF
0x40000050	E2 B8 FF FF
0x40000054	09 93 FF FF
0x40000058	BC 59 FF FF
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0x40000064	F5 B6 FD FF
0x40000068	C8 86 FC FF
0x4000006C	81 B4 FA FF
0x40000070	EA F3 F7 FF
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0x40000080	AE DD D4 FF
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Command

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ASSIGN BreakDisable BreakEnable BreakKill BreakList BreakSet BreakAccess COVERAGE COVTOFILE DEFINE DIR Display Enter EVALuate

Real-Time Agent: Target Reset Simulation t1: 0.00000000 sec L:6 C:1 CAP NUM SCRL OVR/ R/W

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Registers

Register	Value
R0	0xPCD247BD
R1	0x00000027
R2	0xFE072F9
R3	0xFE31D5E4
R4	0x00000032
R5	0x40000000
R6	0x00000027
R7	0xFFFFFFFF
R8	0x00000000
R9	0x00000000
R10	0x00000000
R11	0x00000000
R12	0x0000009C
R13 (SP)	0x00000000
R14 (LR)	0x00000038
R15 (PC)	0x000000DC
CPSR	0x40000003
SPSR	0x00000000
User/System	
Fast Interrupt	
Interrupt	
Supervisor	
Abort	

Disassembly

```
107:      B TAMAM
->0x000000DC: EAFFFFFF  B      0x000000DC
0x000000E0: 00000000  ANDEQ   R0,R0,R0
0x000000F4: 00000000  ANDNEQ  R0,R0,R0
```

MyFunction.s

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92
93 RETURN_ZERO
94     MOV R0,#0
95     MOV PC,LR
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97 RETURN_ONE
98     MOV R0,#1
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103     MOV PC,LR
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105
106 TAMAM
107     B TAMAM
108
109
110     END
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Memory 1

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