

数据处理指令



C:\Users\Administrator\Desktop\ARM-ASM\ARM-ASM.uvproj - μVision4

File Edit View Project Flash Debug Peripherals Tools SVCS Window Help

Target 1

Project

Target 1

Source Group 1

arm-asm.s

arm-asm.s

```
133      @ ADC R0, R2, R4
134      @ 本质:  $R0 = R2 + R4 + 'C'$ 
135
136      @ 带借位的减法指令
137
138      @ 第一个数
139      @ 0x00000002 00000001
140      @ 第二个数
141      @ 0x00000001 00000005
142
143      @ MOV R1, #0x00000001
144      @ MOV R2, #0x00000002
145      @ MOV R3, #0x00000005
146      @ MOV R4, #0x00000001
147
148      @ SUBS R5, R1, R3
149      @ SBC R6, R2, R4
150      @ 本质:  $R6 = R2 - R4 - 'C'$ 
151
152
153
154      stop:      @死循环, 防止程序跑飞
155      B stop
156
157      .end      @汇编程序的结束
158
```

Build Output

Build target 'Target 1'

linking...

"ARM-ASM.elf" - 0 Error(s), 0 Warning(s).

Simulation

桌面

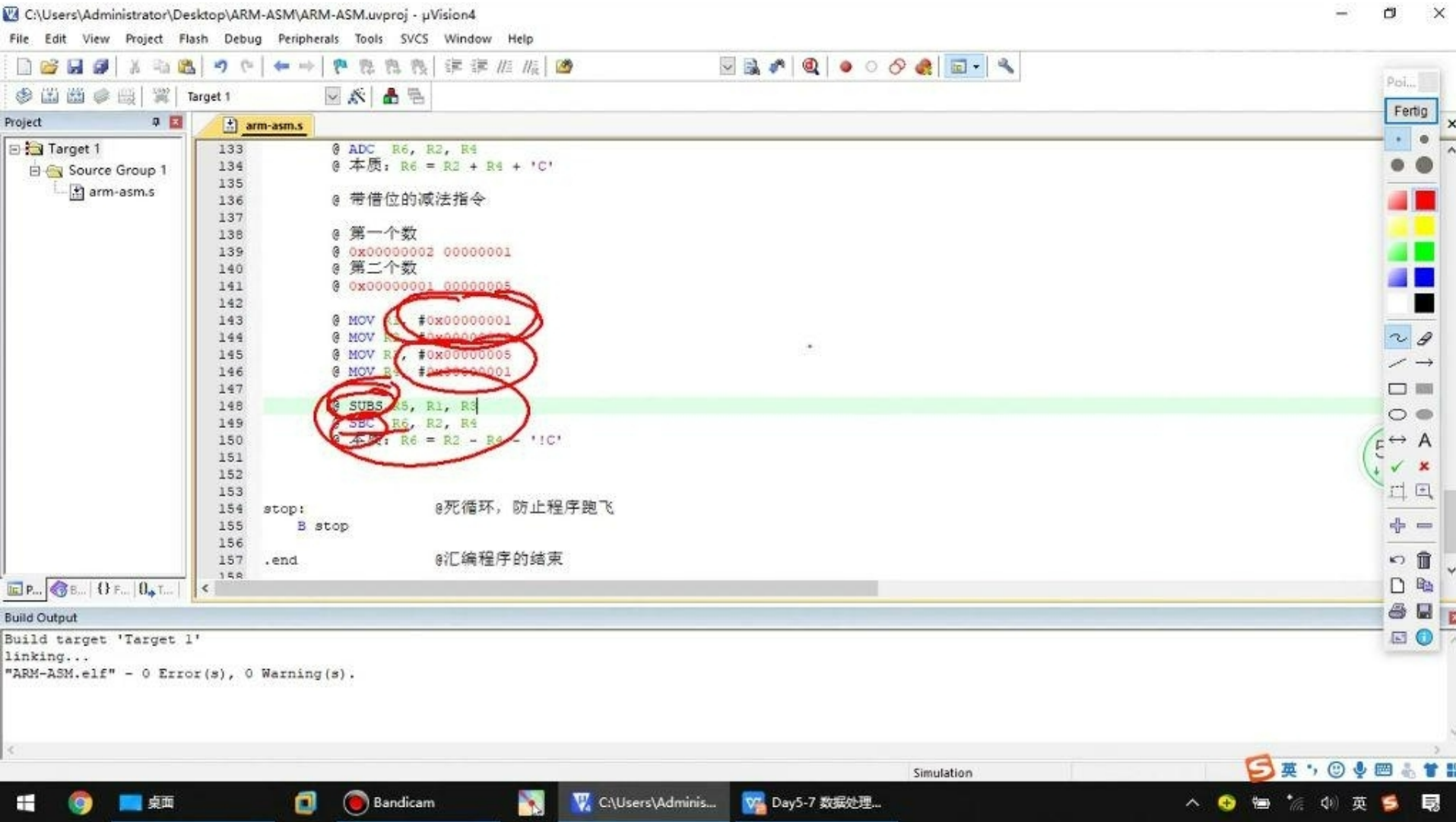
Bandicam

Pointofix

C:\Users\Adminis...

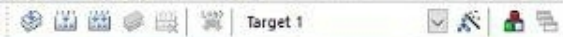
Day5-7 数据处理...





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Project

Target 1
Source Group 1
arm-asm.s

```
133  @ ADC R6, R2, R4
134  @ 本质: R6 = R2 + R4 + 'C'
135
136  @ 带借位的减法指令
137
138  @ 第一个数
139  @ 0x00000002 00000001
140  @ 第二个数
141  @ 0x00000001 00000005
142
143  @ MOV R1, #0x00000001
144  @ MOV R2, #0x00000002
145  @ MOV R3, #0x00000005
146  @ MOV R4, #0x00000001
147
148  @ SUBS R5, R1, R3
149  @ SBC R6, R2, R4
150  @ 本质: R6 = R2 - R4 - 'C'
151
152
153
154  stop:          @死循环, 防止程序跑飞
155      B stop
156
157  .end           @汇编程序的结束
158
```

Build Output

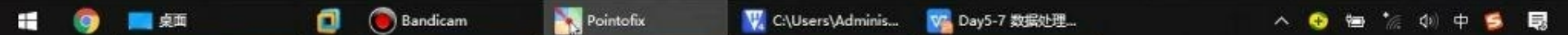
Build target 'Target 1'
linking...
"ARM-ASM.elf" - 0 Error(s), 0 Warning(s).

Poi... x
Start

56%
↑ 0K/s

Simulation

CAP: NUM SCRL OVR: R/W



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Target 1

Project

Target 1
Source Group 1
arm-asm.s

arm-asm.s Text2

1

Pol...
Start

56%
51°C

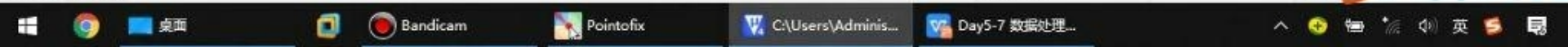
Build Output

Build target 'Target 1'
linking...
"ARM-ASM.elf" - 0 Error(s), 0 Warning(s).

Undo the last action

Simulation

L:1 G:1



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Target 1

Project

- Target 1
 - Source Group 1
 - arm-asm.s

1

arm-asm.s

Text2

Save As

此电脑 > 桌面 > ARM-ASM

搜索"ARM-ASM"

组织 新建文件夹

名称	修改日期	类型
arm-asm.d	2020/4/20 18:52	D 文件
ARM-ASM.elf	2020/4/20 18:52	ELF 文件
ARM-ASM.lnp	2020/4/20 18:52	LNP 文件
arm-asm.o	2020/4/20 18:52	O 文件
ARM-ASM.plg	2020/4/20 18:52	PLG 文件
arm-asm.s	2020/4/20 18:53	S 文件
ARM-ASM.uvgui.Administrator	2020/4/20 11:18	ADMINISTRATC
ARM-ASM.uvgui_Administrator.bak	2020/4/19 14:03	BAK 文件
ARM-ASM.uvopt	2020/4/20 11:18	UVOPT 文件
ARM-ASM	2020/4/20 11:18	µVision4 Project

文件名(N): main

保存类型(T): All Files (*.*)

保存(S) 取消

Build Output

Build target 'Target 1'
linking...
"ARM-ASM.elf" - 0 Error(s), 0 Warning(s).

Simulation

L1 G1



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Target 1

Project

Target 1
Source Group 1
arm-asm.s
main.c

arm-asm.s main.c

```
1  
2 int a;  
3 int b;  
4 int c;  
5 int main()  
6 {  
7     c = a + b;  
8     return 0;  
9 }
```

Poi...
Start

57%
50°C

P... B... F... T...

Build Output

Build target 'Target 1'
linking...
"ARM-ASM.elf" - 0 Error(s), 0 Warning(s).

Build target files Simulation

L:7 C:1 S 英 50°C



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Target 1



Pol...
Start

57%
↓ 0K/s

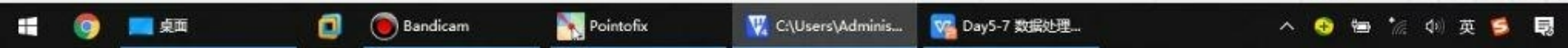
Build Output

```
Build target 'Target 1'  
assembling arm-asm.s...  
compiling main.c...  
linking...  
"ARM-ASM.elf" - 0 Error(s), 0 Warning(s).
```

Simulation

L:7 C:13

CAP: NUM SCRL OVR: R/W



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Registers

Register	Value
Current	
R0	0x00000000
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	0x000000D3
SPSR	0x00000000

User/System
Fast Interrupt
Interrupt
Supervisor
Abort
Undefined
Internal
PC ↓ 0x00000000
Mode Supervisor
States 0
CPSR 0x000000D3

Project Registers

Disassembly

```
155:      B stop
0x00000000 EAffffff B      0x00000000
6: {
7:      c = a + b;
8:      return 0;
0x00000004 E59F301C LDR      R3, [PC, #0x001C]
0x00000008 E5932000 LDR      R2, [R3]
0x0000000C E59F3018 LDR      R3, [PC, #0x0018]
0x00000010 E5933000 LDR      R3, [R3]
0x00000014 E0822003 ADD      R2, R2, R3
0x00000018 E59F3010 LDR      R3, [PC, #0x0010]
0x0000001C E5832000 STR      R2, [R3]
9: }
0x00000020 E3A00000 MOV      R0, #0x00000000
0x00000024 E12FFFFE BX      R14
```

arm-asm.s main.c

```
1
2 int a;
3 int b;
4 int c;
5 int main()
6 {
7     c = a + b;
8     return 0;
9 }
```

Command

Load "C:\\Users\\Administrator\\Desktop\\ARM-ASM\\ARM-ASM.ELF"

ASSIGN BreakDisable BreakEnable BreakKill BreakList BreakSet BreakAccess COVERAGE

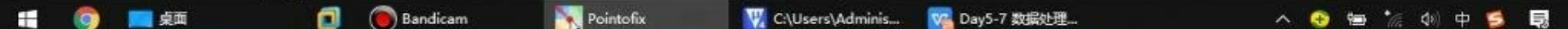
Search for text on a letter-by-letter basis as you type the characters

Real-Time Agent: Not in target

Simulation

tt: 107.50841675 sec

CAP NUM SCRL OVR R/W



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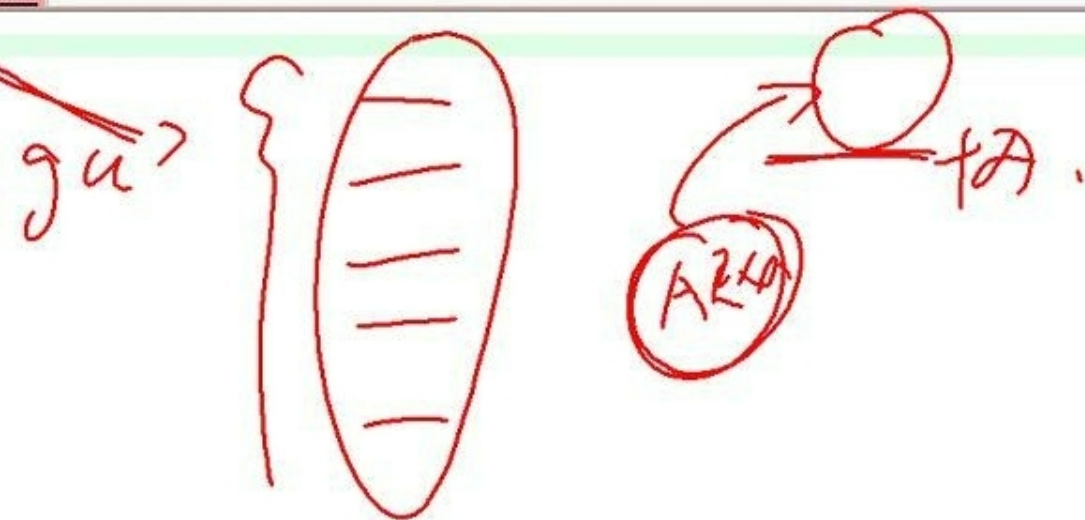


Target 1

Project



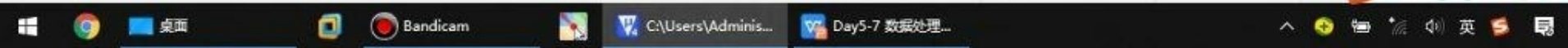
```
1 float a;  
2 int main()  
3 {  
4     a = a / 2;  
5     return 0;  
6 }  
7
```



Build Output

Build target 'Target 1'
compiling main.c...
linking...
"ARM-ASM.elf" - 0 Error(s), 0 Warning(s).

Simulation



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Target 1

Project

Target 1

Source Group 1

arm-asm.s

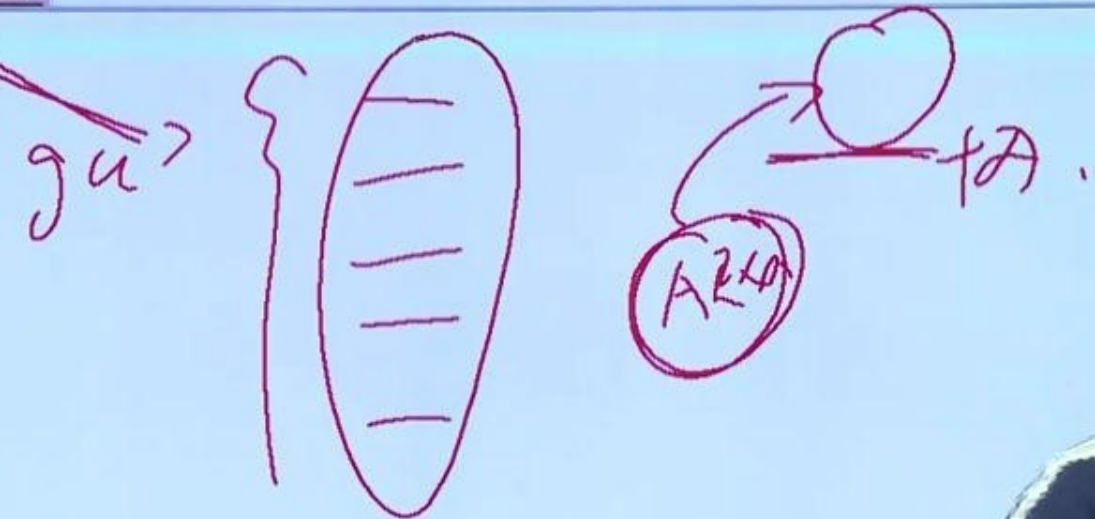
main.c

arm-asm.s

main.c*

```
1
2 float a;
3 int main()
4 {
5     a = a / 2;
6     return 0;
7 }
```

ga



Build Output

Build target 'Target 1'

compiling main.c...

linking...

"ARM-ASM.elf" - 0 Error(s), 0 Warning(s).

Simulation

创客学院

Fertig

Bandicam

C:\Users\Adminis...

Day5-7 数据处理...

Day5-7 数据处理指令 (四)

开始 插入 设计 切换 动画 幻灯片放映 审阅 视图 安全 开发工具 特色功能 查找

从当前开始 新建幻灯片 板式 节 文本框 形状 排列 动画 演示工具 替换 Start

大纲 幻灯片

1 数据处理指令 (四)

2 THANK YOU

数据处理指令 (四)

创客学院 武老师

云字体

1 本机缺失文档中使用的字体 (3)

可能会导致文档在显示或打印时出现错误，字体将被替换为其他字体

与 华文细黑 匹配到相似字体: 仿宋

与 Calibri 匹配到相似字体: Courier New

与 Calibri 匹配到相似字体: Calibri

幻灯片 1 / 2 Office 主题 文档未保护 缺失字体 一键美化

Bandicam Pointofix C:\Users\Admini... Day5-7 数据处理...