

Report about lab2

1-lab2 with startup.s

Sections of learn-in-depth-cortex-m3.elf

```
7/20/23 (Embedded C) / Lesson 3 / Lab2 with startup.s (masdev)
$ arm-none-eabi-objdump.exe -h learn_in_depth_cortex_m3.elf

learn_in_depth_cortex_m3.elf:      file format elf32-littlearm

Sections:
Idx Name              Size      VMA       LMA       File off  Algn
  0 .text              00000104  08000000  08000000  00008000  2**2
    CONTENTS, ALLOC, LOAD, READONLY, CODE
  1 .data              00000004  20000000  08000104  00010000  2**2
    CONTENTS, ALLOC, LOAD, DATA
  2 .debug_info        0000013b  00000000  00000000  00010004  2**0
    CONTENTS, READONLY, DEBUGGING
  3 .debug_abbrev       000000de  00000000  00000000  0001013f  2**0
    CONTENTS, READONLY, DEBUGGING
  4 .debug_loc         00000038  00000000  00000000  0001021d  2**0
    CONTENTS, READONLY, DEBUGGING
  5 .debug_aranges     00000020  00000000  00000000  00010255  2**0
    CONTENTS, READONLY, DEBUGGING
  6 .debug_line        00000056  00000000  00000000  00010275  2**0
    CONTENTS, READONLY, DEBUGGING
  7 .debug_str         000000e9  00000000  00000000  000102cb  2**0
    CONTENTS, READONLY, DEBUGGING
  8 .comment           00000011  00000000  00000000  000103b4  2**0
    CONTENTS, READONLY
  9 .ARM.attributes    00000033  00000000  00000000  000103c5  2**0
    CONTENTS, READONLY
10 .debug_frame       0000002c  00000000  00000000  000103f8  2**2
    CONTENTS, READONLY, DEBUGGING
```

Symbols of learn-in-depth-cortex-m3.elf

```
7/20/23 (Embedded C) / Lesson 3 / Lab2 with startup.s (masdev)
$ arm-none-eabi-nm.exe learn_in_depth_cortex_m3.elf
080000f8 t _reset
08000050 T main
20000000 D R_ODR
08000100 t Vector_handler
```

2-lab2 with startup.c

Sections of learn-in-depth-cortex-m3.elf

```
$ arm-none-eabi-objdump.exe -h learn_in_depth_cortex_m3.elf
learn_in_depth_cortex_m3.elf:      file format elf32-littlearm

Sections:
Idx Name              Size      VMA       LMA       File off  Algn
  0 .text              00000180  08000000  08000000  00008000  2**2
    CONTENTS, ALLOC, LOAD, READONLY, CODE
  1 .data              00000004  20000000  08000180  00010000  2**2
    CONTENTS, ALLOC, LOAD, DATA
  2 .bss               00001000  20000004  08000184  00010004  2**0
    ALLOC
  3 .debug_info        000002c8  00000000  00000000  00010004  2**0
    CONTENTS, READONLY, DEBUGGING
  4 .debug_abbrev      000001b6  00000000  00000000  000102cc  2**0
    CONTENTS, READONLY, DEBUGGING
  5 .debug_loc         0000009c  00000000  00000000  00010482  2**0
    CONTENTS, READONLY, DEBUGGING
  6 .debug_aranges     00000040  00000000  00000000  0001051e  2**0
    CONTENTS, READONLY, DEBUGGING
  7 .debug_line        00000102  00000000  00000000  0001055e  2**0
    CONTENTS, READONLY, DEBUGGING
  8 .debug_str         0000017b  00000000  00000000  00010660  2**0
    CONTENTS, READONLY, DEBUGGING
  9 .comment           00000011  00000000  00000000  000107db  2**0
    CONTENTS, READONLY
10 .ARM.attributes    00000033  00000000  00000000  000107ec  2**0
    CONTENTS, READONLY
11 .debug_frame        00000078  00000000  00000000  00010820  2**2
    CONTENTS, READONLY, DEBUGGING
```

Symbols of learn-in-depth-cortex-m3.elf

```
$ arm-none-eabi-nm.exe learn_in_depth_cortex_m3.elf
20000004 B _E_bss
20000004 D _E_data
08000180 T _E_text
20000004 B _S_bss
20000000 D _S_data
20001004 B _stack_top
08000174 W Bus_Handler
08000174 T default_handler
08000174 W H_Fault_handler
08000018 T main
08000174 W NMI_Handler
20000000 D R_ODR
080000c0 T Reset_Handler
08000174 W Usage_Fault_handler
08000000 T vectors
```