Report about lab

lab: toggle led by using stm32.

Sections of startup.o:

```
<u>PS_D:\study\GNU-Tools-ARM-Embedded\7</u>2017-q4-major\bin> .\arm-none-eabi-objdump.exe -h startup.o
startup.o:
                      file format elf32-littlearm
Sections:
Idx Name
0 .tex
                                         VMA LMA
00000000 00000000
                                                                       File off
00000034
                                                                                     Algn
2**2
                          Size
00000090
     .text
                                         ALLOC, LOAD, RELOC,
00000000 000000000
ALLOC, LOAD, DATA
00000000 00000000
                          CONTENTS,
00000000
                                                                       READONLY,
                                                                                     CODE
2**0
                                                                       00000c4
     .data
                           CONTENTS,
   2 .bss
                          0000000
                                                                       000000c4
                                                                                      2**0
                          ALLOC
0000001c
   3 .vectors
                                         00000000 00000000
                                                                       00000c4
                                         ALLOC, LOAD, RELOC, 00000000 00000000
                          CONTENTS, 00000156
                                                                      DATA
000000e0
     .debug_info
                                         RELOC, READONLY, DEBUGGING
00000000 00000000 000002
                          CONTENTS, 000000c0
                                                                       00000236
      .debug_abbrev
     CONTENTS, .debug_aranges 00000020
                                         READONLY, DEBUGGING
00000000 00000000
                                                                        000002f6
                          CONTENTS,
00000120
                                         RELOC, READONLY, DEBUGGING 00000000 00000000 0000000
      .debug_line
                                                                     00000316
                                         RELOC, READONLY, DEBUGGING
00000000 00000000 00000436
                          CONTENTS,
000001b0
     .debug_str
                                         READONLY,
00000000
                                                        DEBUGGING
00000000
                          CONTENTS, 0000007f
                                                                      000005e6
                                                                                      2**0
   9 .comment
                                         READONLY
00000000
                          CONTENTS, 00000050
 10 .debug_frame
                                                        00000000 00000668
                                                                                      2**2
                                         RELOC, READONLY, DEBUGGING
3 00000000 00000000 000006b8
 CONTENTS, F
11 .ARM.attributes 00000033
                                                                                       2**0
                           CONTENTS, READONLY
```

Sections of main.o:

```
PS D:\study\GNU-Tools-ARM-Émbedded\7 2017-q4-major\bin> .\arm-none-eabi-objdump.exe -h main.o
main.o:
                 file format elf32-littlearm
Sections:
                                        VMA
000000000
                                                                     File off 00000034
                                                                                   Algn
2**2
                         Size
00000094
Idx Name
  0 .text
                                                      00000000
                                        ALLOC, LOAD, READONLY, CODE 00000000 00000008
                         CONTENTS,
  1 .data
                                        ALLOC, LOAD, DATA
00000000 00000000
                         CONTENTS, 00000000
                                                                     000000c8
                                                                                   2**0
  2 .bss
                          ALLOC
000000ee
  3 .debug_info
                                        00000000
                                                      00000000
                                                                     000000c8
  CONTENTS,
4 .debug_abbrev 0000008e
                                        RELOC, READONLY, DEBUGGING 00000000 0000018
                                                                     000001b6
                                        READONLY,
00000000
                                                      DEBUGGING
00000000
  CONTENTS, 5 .debug_aranges 00000020
                                                                      00000244
                                                                                    2**0
                                        RELOC, READONLY, DEBUGGING
00000000 00000000 00000264
RELOC, READONLY, DEBUGGING
00000000 00000000 00000377
                         CONTENTS, 00000113
                                                                                   2**0
  6 .debug_line
                         CONTENTS, 00000158
  7 .debug_str
                                                                                    2**0
                                        READONLY,
00000000
                                                      DEBUGGING
00000000
                         CONTENTS, 0000007f
                                                                    000004cf
  8 .comment
                                        READONLY
00000000
                         CONTENTS,
0000006c
                                                      0000000 00000550
  9 .debug_frame
 CONTENTS, RELOC, READONLY, DEBUGGING

10 .ARM.attributes 00000033 00000000 00000000 000005bc 2**0
                          CONTENTS, READONLY
```

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

```
learn-in-depth-cortex-m3.elf:
                                      file format elf32-littlearm
Sections:
                                                                  Algn
2**2
Idx Name
                    Size
                                VMA
                                           LMA
                                                       File off
  0 .text
                    00000140
                                08000000
                                           08000000
                                                       00010000
                    CONTENTS,
                                ALLOC, LOAD, READONLY, CODE
20000000 08000140 00020000
                    00001000
                                                                  2**0
  1 .bss
                    ALLOC
                    00000244
  2 .debua_info
                                00000000
                                           00000000
                                                       00010140
                                                                  2**0
                    CONTENTS,
                                READONLY, DEBUGGING
  3 .debug_abbrev 0000014e
                                00000000
                                           00000000
                                                       00010384
                                                                  2**0
  CONTENTS,
4 .debug_aranges 00000040
                                READONLY,
00000000
                                           DEBUGGING
                                            00000000
                                                        000104d2
                                                                  2**0
                    CONTENTS,
                                READONLY, DEBUGGING
  5 .debug_line
                    00000233
                                00000000
                                                       00010512
                                           00000000
                                                                  2**0
                    CONTENTS,
                                READONLY, DEBUGGING
                    0000019b
                                00000000
                                                                  2**0
  6 .debua str
                                           00000000
                                                       00010745
                    CONTENTS,
0000007e
                               READONLY, DEBUGGING 00000000 00000000
                                                                  2**0
  7 .comment
                                                       000108e0
  CONTENTS, F
8 .ARM.attributes 00000033
                               READONLY
                                  00000000
                                             00000000
                                                        0001095e 2**0
                    CONTENTS, READONLY
                    000000bc
                                00000000
  9 .debug_frame
                                           00000000
                                                       00010994
                    CONTENTS, READONLY, DEBUGGING
```

Symbols of startup.o

Symbols of main.o

```
PS D:\study\GNU-Tools-ARM-Embedded\7 2017-q4-major\bin> .\arm-none-eabi-nm.exe main.o
0000000c T H_fault_Handler
00000018 T main
00000000 T NMI_Handler
```