

Report

Vector table without alias

```
MINGW32://Desktop-77dmlj/f$/all/unit 3/lesson3/Assignment/lab2_startup...
asm.s:89: Error: junk at end of line, first unrecognized character is `8'
make: *** [asm.o] Error 1

Mohamed_ELkomy@DESKTOP-77DMLIJ MINGW32 //Desktop-77dmlj/f$/all/unit 3/lesson3/Assignment/lab2_startup_c
$ rm asm.s

Mohamed_ELkomy@DESKTOP-77DMLIJ MINGW32 //Desktop-77dmlj/f$/all/unit 3/lesson3/Assignment/lab2_startup_c
$ make symbol
arm-none-eabi-nm.exe toggle_with_startup.c.elf
20000000 B bs
080000b0 T bus_fault
080000bc D da
080000a4 T h_fault_handler
08000014 T main
08000098 T nmi_handler
080000d0 D R_ODR
0800008c T reset_handler
08000000 T vectors

Mohamed_ELkomy@DESKTOP-77DMLIJ MINGW32 //Desktop-77dmlj/f$/all/unit 3/lesson3/Assignment/lab2_startup_c
$
```

Vector table with alias

```
MINGW32://Desktop-77dmlj/f$/all/unit 3/lesson3/Assignment/lab2_startup...
f -Map=map_file.map
arm-none-eabi-objcopy.exe -O binary toggle_with_startup.c.elf toggle_with_startup.p.c.bin
C:\WinAVR-20100110\utils\bin\make.exe: Interrupt/Exception caught (code = 0xc00000fd, addr = 0x4217b3)

Mohamed_ELkomy@DESKTOP-77DMLIJ MINGW32 //Desktop-77dmlj/f$/all/unit 3/lesson3/Assignment/lab2_startup_c
$ make symbol
arm-none-eabi-nm.exe toggle_with_startup.c.elf
20000000 B bs
08000098 W bus_fault
080000a4 D da
08000098 T default_handler
08000098 W h_fault_handler
08000014 T main
08000098 W nmi_handler
080000b8 D R_ODR
0800008c T reset_handler
08000000 T vectors

Mohamed_ELkomy@DESKTOP-77DMLIJ MINGW32 //Desktop-77dmlj/f$/all/unit 3/lesson3/Assignment/lab2_startup_c
$
```

Header of the output

```
MINGW32://Desktop-77dmlj/f$/all/unit 3/lesson3/Assignment/lab2_startup...
$ make header
arm-none-eabi-objdump.exe -h toggle_with_startup.c.elf

toggle_with_startup.c.elf:      file format elf32-littlearm

Sections:
Idx Name          Size      VMA       LMA       File off  Algn
  0 .text          0000011c  08000000  08000000  00010000  2**2
    CONTENTS, ALLOC, LOAD, READONLY, CODE
  1 .data          00000018  20000000  0800011c  00020000  2**2
    CONTENTS, ALLOC, LOAD, DATA
  2 .bss           0000000c  20000018  08000134  00020018  2**2
    ALLOC
  3 .debug_info     00000c06  00000000  00000000  00020018  2**0
    CONTENTS, READONLY, DEBUGGING
  4 .debug_abbrev   000002b5  00000000  00000000  00020c1e  2**0
    CONTENTS, READONLY, DEBUGGING
  5 .debug_loc      000000b4  00000000  00000000  00020ed3  2**0
    CONTENTS, READONLY, DEBUGGING
  6 .debug_aranges  00000040  00000000  00000000  00020f87  2**0
    CONTENTS, READONLY, DEBUGGING
  7 .debug_line     000003f9  00000000  00000000  00020fc7  2**0
    CONTENTS, READONLY, DEBUGGING
  8 .debug_str      00000573  00000000  00000000  000213c0  2**0
    CONTENTS, READONLY, DEBUGGING
  9 .comment        0000007b  00000000  00000000  00021933  2**0
    CONTENTS, READONLY
```

symbol of the output

```
MINGW32://Desktop-77dmlj/f$/all/unit 3/lesson3/Assignment/lab2_startup...
11 .debug_frame    0000007c  00000000  00000000  000219e4  2**2
    CONTENTS, READONLY, DEBUGGING

Mohamed_ELkomy@DESKTOP-77DMLIJ MINGW32 //Desktop-77dmlj/f$/all/unit 3/lesson3/A
_startup_c
$ make symbol
arm-none-eabi-nm.exe toggle_with_startup.c.elf
20000018 B _E_bss
20000018 D _E_data
0800011c T _E_text
20000018 B _S_bss
20000000 D _S_data
20001018 B _stack_top
20000018 B bs
08000110 W bus_fault
20000000 D da
08000110 T default_handler
08000110 W h_fault_handler
08000014 T main
08000110 W nmi_handler
20000014 D R_ODR
0800008c T reset_handler
08000000 T vectors

Mohamed_ELkomy@DESKTOP-77DMLIJ MINGW32 //Desktop-77dmlj/f$/all/unit 3/lesson3/A
ssignment/lab2_startup_c
g$ |
```

