Introduction:

This is a ELF object file editor, which can analyze, edit any section in a 32-bit ELF object file. Also, part of disassembly mode is now available.

How to install:

Make sure no file is missed, see file_list.txt. cd <lcation of file_editor> gcc ./file_editor.c -o ./file_editor.o

Open a demo file:

cd <location of file_editor.o>
./file_editor.o <path of ELF 32 object file>

Print everything in header:

Enter -555, then press <Enter>.

```
-555

e_ident:7f 45 4c 46 2 0 3 0 1 0 0 0 c0 83 4 8
e_type: 2
e_machine: 3
e_version: 1
e_entry: 134513600
e_phoff: 0x34
e_shoff: 0x1860
e_flags: 0
e_ehsize: 52
e_phentsize: 32
e_phnum: 9
e_shentsize: 40
e_shnum: 31
e_shstrndx: 28
```

Select a section:

Enter the corresponding section code, then press <Enter>. Ex. Select .shstrtab section

```
      .bss:
      fc

      .comment:
      101

      .shstrtab:
      11

      .symtab:
      1

      .strtab:
      9

      Exit:
      -1
```

Print everything in section header:

Enter I, then press <Enter>.

```
I
sh_name: 9
sh_type: 3
sh_flags: 0
sh_addr: 0
sh_offset: 14e0
sh_size: 276
sh_link: 0
sh_info: 0
sh_addraling: 1
sh_entsize: 0
```

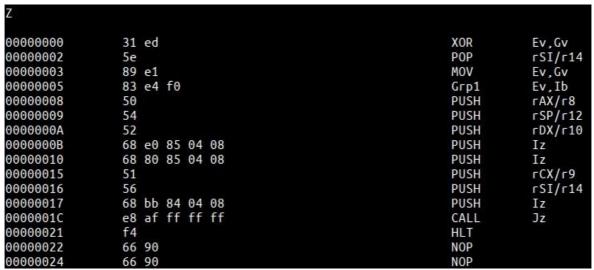
Print the whole <section>:

Enter P, then press <Enter>.

```
0063 7274 7374 7566 662e 6300 5f5f 4a43
                                                                 .crtstuff.c. JC
00000000
                525f 4c49 5354 5f5f 0064 6572 6567 6973
00000010
                                                                 R_LIST__.deregis
00000020
                7465 725f 746d 5f63 6c6f 6e65 7300 5f5f
                                                                 ter_tm_clones.
                646f 5f67 6c6f 6261 6c5f 6474 6f72 735f
00000030
                                                                 do global dtors
00000040
                6175 7800 636f 6d70 6c65 7465 642e 3732
                                                                 aux.completed.72
00000050
                3039 005f 5f64 6f5f 676c 6f62 616c 5f64
                                                                 09.__do_global_d
00000060
                746f 7273 5f61 7578 5f66 696e 695f 6172
                                                                 tors_aux_fini_ar
                7261 795f 656e 7472 7900 6672 616d 655f
00000070
                                                                 ray_entry.frame_
00000080
                6475 6d6d 7900 5f5f 6672 616d 655f 6475
                                                                 dummy.__frame_du
                6d6d 795f 696e 6974 5f61 7272 6179 5f65
00000090
                                                                 mmy_init_array_e
                6e74 7279 006c 6f67 696e 2e63 005f 5f46
000000A0
                                                                 ntry.login.c._
                5241 4d45 5f45 4e44 5f5f 005f 5f4a 4352
000000B0
                                                                 RAME_END__.
                                                                              JCR
                5f45 4e44 5f5f 005f 5f69 6e69 745f 6172
                                                                 END
000000C0
                                                                          init_ar
                7261 795f 656e 6400 5f44 594e 414d 4943
00000D0
                                                                 ray_end._DYNAMIC
```

Print the whole <section> in disassembly mode:

Enter Z , then press <Enter>.



Find one-byte with value:

Enter F <Hex value>. then press <Enter>.

```
F Oc
location at 127
location at 153
location at 165
location at 17E
location at 190
location at 1D1
location at 1D8
location at 217
```

Find two-byte with value(in big-endian):

Enter L <Hex value>, then press <Enter>.

```
L 0000
location at 50
location at 51
location at 52
location at 89
location at 8A
location at 8B
location at AC
location at AD
location at AE
location at E1
location at E2
location at E3
location at 10F
location at 110
location at 11B
```

Edit two-byte with value and address(in big-endian):

Enter E <Hex value> <Hex address>, then press <Enter>.

00000200	7424	2c55
00000210	1039	f775
00000220	f3c3	

E 3412 210

00000200	7424 2c55
00000210	1234 f775
00000220	f3c3

Delete X bytes:

Enter D <Hex address> <X>, then press <Enter>.

00000200	7424	2c55
00000210	1234	f775
00000220	f3c3	

D 210 2

00000200	7424	2c55
00000210	f775	e383

Add one-byte:

Enter A <Hex value> <Hex address>, then press <Enter>.

00000200	7424	2c55
00000210	f775	e383

A 3910 210

00000200	7424 2c5	5
00000210	1039 f77	5
00000220	f3c3	

Save and Exit section:

Enter Q, then press<Enter>.

Exit section:

Enter any letter else (ex.'r'), then press <Enter> .