```
1 ; Name
                 : version.asm
 2;
 3 ; Build
                 : aclocal && autoconf && automake --add-missing --foreign
4 ;
                   mkdir build
5;
                   cd build
6
                   ../configure
7 ;
                   make
8;
9 ; Description : The program is restricted to show some data stored in the glib and gtk
10 ;
                   shared libraries.
11 ;
                   these strings can be obtained with
12 ;
                   objdump -t -T /usr/lib/x86 64-linux-gnu/libglib-2.0.so | grep .rodata
13;
                   objdump -t -T /usr/lib/x86 64-linux-gnu/libgtk-x11-2.0.so | grep .rodata
14;
                   and so on for other libraries.
15 ;
16 ; Source
                 : http://zetcode.com/gui/gtk2/introduction/
17
18 bits 64
19
20 [list -]
21
       ;glib parameters
       extern
22
                 glib minor version
23
       extern
                 glib micro version
24
       extern
                 glib_major_version
25
       ;gtk params
26
                 gtk micro version
       extern
27
                 gtk major version
       extern
28
       extern
                 gtk_minor_version
29
       ;stdio
30
       extern
                 printf
31
       extern
                 exit
32 [list +]
33
34 section .rodata
35
       ;to have the possibility to extend this program I prefer to work with lists
36
37
                      glib major version, glib minor version, glib micro version
       params: dq
38
               dq
                     gtk major version, gtk minor version, gtk micro version
39
               dq
40
41
               da
                      szglib major version, szglib minor version, szglib micro version
       msqs:
42
                      szgtk major version, szgtk minor version, szgtk micro version
43
44
       ; messages:
45
       messages:
46
       szglib major version:
                                       "Glib version: %d",0
                                       ".%d",0
47
       szglib minor version:
                                db
                                       ".%d",10,0
48
                                db
       szglib micro version:
                                      "Gtk version: %d",0
49
                                db
       szgtk major version:
                                       ".%d",0
50
       szgtk minor version:
                                db
                                      ".%d",10,0
51
                                db
       szgtk micro version:
52
53 section .text
54 global _start
55
56 _start:
57
       ;r14 isn't changed by printf and holds the pointer in the message list
58
               r14, msgs
       mov
59
       ;r15 isn't changed by printf holds the pointer in the param list
60
               r15, params
       mov
61
       ;we're gonna loop through the parameters in params list until we got the null
62
       ; pointer at the end and we exit the program
63 .repeat:
               rax,[r15]
64
       mov
65
       test
               rax, rax
66
               .exit
       jΖ
67
                                     ;read value in esi
       mov
               esi,dword[rax]
68
                                     ; read pointer to message in rdi
       mov
               rdi, qword[r14]
69
       xor
               rax, rax
                                     ;rax = indicating no extra parameters
70
       call
               printf
71
       add
               r14,8
                                     ;next pointer in msgs list
72
       add
               r15,8
                                     ;next pointer in params list
```

73 jmp .repeat 74 .exit: 75 ;exit program 76 xor rdi,rdi 77 call exit 78