```
Name
                  : center.asm
 2
 3
     Build
                  : aclocal && autoconf && automake --add-missing --foreign
 4
                    mkdir build
 5
                    cd build
 6
                    ../configure
7
                    make
8
9
     Description: a simple window centered on screen
10
11
    Source : http://zetcode.com/gui/gtk2/firstprograms/
13 bits 64
15 [list -]
                   GTK WINDOW TOPLEVEL 0
16
       %define
17
       %define
                   GTK WIN POS CENTER 1
18
       extern
                   exit
19
       extern
                   gtk_init
20
       extern
                   gtk_main
21
       extern
                   gtk_main_quit
22
       extern
                   gtk_window_new
23
       extern
                   gtk_window_set_title
24
       extern
                   gtk_window_set_default_size
25
       extern
                   gtk_window_set_position
26
       extern
                   gtk_widget_show
27
       extern
                   g_signal_connect_data
28 [list +]
29
30 section .rodata
                            "center",0
31
       szTitle:
                       db
32
       szDestroy:
                       db
                            "destroy",0
33
34 section .data
35
       window:
                       dq
36
37 section .text
38
39 global _start
  _start:
40
41
       ;init qtk
42
       xor
               rsi, rsi
                                              ;argv
43
       xor
                rdi, rdi
                                              ;argc
44
       call
                gtk init
45
       ;create new window
46
       mov
                rdi,GTK WINDOW TOPLEVEL
47
       call
                gtk window new
48
       mov
                qword[window],rax
49
       ;set window title
50
                rdi, qwo rd [window]
       mov
                rsi,szTitle
51
       mov
52
       call
                gtk_window_set_title
53
       ;set the window size
54
                rdi, qwo rd [window]
       mov
                rsi,230
55
       mov
56
       mov
                rdx, 150
57
       call
                gtk window set default size
58
       ;set window position
59
       mov
                rdi, qword[window]
                rsi,GTK_WIN_POS CENTER
60
       mov
61
       call
                gtk_window_set_position
62
       ;connect signal destroy to event handler gtk main quit
                                              ;combination of GConnectFlags
63
                r9d, r9d
       xor
64
       xor
                r8d, r8d
                                              ;a GClosureNotify for data
65
       xor
                rcx, rcx
                                              ;pointer to the data to pass
66
       mov
                rdx,gtk_main_quit
                                              ;pointer to the handler, exit = c function
67
       mov
                rsi,szDestroy
                                              ;pointer to the signal
68
       mov
                rdi, qword[window]
                                              ;pointer to the widget instance
69
       call
                g_signal_connect_data
                                              ;the value in RAX is the handler, but we don't store
       it now
70
       ;show the window
71
       mov
                rdi, qword [window]
72
       call
                gtk_widget_show
```

73	;enter	main loop
74	call	gtk main
75	;exit	program
76	xor	rdi, rdi
77	call	exit
78		