```
1
  2
      bomb:
                file format elf64-x86-64
  3
  4
  5
      Disassembly of section .init:
  6
  7
      0000000000400ac0 <_init>:
  8
        400ac0: 48 83 ec 08
                                       sub
                                               $0x8,%rsp
  9
        400ac4: e8 f3 01 00 00
                                       callq 400cbc <call_gmon_start>
 10
        400ac9: 48 83 c4 08
                                       add
                                               $0x8,%rsp
 11
        400acd: c3
                                       retq
 12
 13
      Disassembly of section .text:
14
15
      0000000000400c90 <_start>:
16
       400c90: 31 ed
                                       xor
                                              %ebp,%ebp
17
       400c92: 49 89 d1
                                       mov
                                              %rdx,%r9
       400c95: 5e
18
                                              %rsi
                                       pop
19
        400c96: 48 89 e2
                                       mov
                                              %rsp,%rdx
20
       400c99: 48 83 e4 f0
                                       and
                                              $0xfffffffffffff,%rsp
21
       400c9d: 50
                                              %rax
22
       400c9e: 54
                                              %rsp
                                       push
23
       400c9f: 49 c7 c0 a0 22 40 00 mov
                                              $0x4022a0,%r8
24
       400ca6: 48 c7 c1 10 22 40 00
                                       mov
                                              $0x402210,%rcx
25
       400cad: 48 c7 c7 a0 0d 40 00
                                       mov
                                              $0x400da0,%rdi
26
       400cb4: e8 b7 fe ff ff
                                       callq
                                              400b70 <__libc_start_main@plt>
       400cb9: f4
27
                                       h1t
       400cba: 90
28
                                       nop
29
       400cbb: 90
                                       nop
30
31
     0000000000400cbc <call_gmon_start>:
32
       400cbc: 48 83 ec 08
                                       sub
                                              $0x8,%rsp
33
       400cc0: 48 8b 05 19 23 20 00 mov
                                              0x202319(%rip),%rax
                                                                          # 602fe0 <__gmon_start
34
       400cc7: 48 85 c0
                                       test
                                              %rax,%rax
35
       400cca: 74 02
                                       je
                                              400cce <call_gmon_start+0x12>
36
       400ccc: ff d0
                                              *%rax
                                       callq
       400cce: 48 83 c4 08
37
                                       add
                                              $0x8,%rsp
38
       400cd2: c3
                                       retq
39
       400cd3: 90
                                       nop
40
       400cd4: 90
                                       nop
       400cd5: 90
41
                                       nop
42
       400cd6: 90
                                       nop
43
       400cd7: 90
                                       nop
44
       400cd8: 90
                                       nop
45
       400cd9: 90
                                      nop
46
       400cda: 90
                                       nop
       400cdb: 90
47
                                      nop
48
       400cdc: 90
                                      nop
49
       400cdd: 90
                                      nop
       400cde: 90
50
                                      nop
51
       400cdf: 90
                                      nop
52
53
     0000000000400ce0 <deregister_tm_clones>:
54
       400ce0: b8 47 37 60 00
                                      mov
                                              $0x603747, %eax
55
       400ce5: 55
                                      push
                                              %rbp
       400ce6: 48 2d 40 37 60 00
56
                                      sub
                                              $0x603740,%rax
57
       400cec: 48 83 f8 0e
                                      cmp
                                              $0xe,%rax
58
       400cf0: 48 89 e5
                                      mov
                                              %rsp,%rbp
       400cf3: 77 02
                                      ja
                                              400cf7 <deregister_tm_clones+0x17>
```

```
60
         400cf5: 5d
                                                %rbp
                                        pop
  61
         400cf6: c3
                                        retq
  62
         400cf7: b8 00 00 00 00
                                        mov
                                                $0x0,%eax
  63
         400cfc: 48 85 c0
                                        test
                                               %rax,%rax
         400cff: 74 f4
  64
                                        jе
                                               400cf5 <deregister_tm_clones+0x15>
  65
         400d01: 5d
                                        pop
  66
         400d02: bf 40 37 60 00
                                               $0x603740,%edi
                                        mov
         400d07: ff e0
  67
                                               *%rax
                                        jmpq
  68
         400d09: 0f 1f 80 00 00 00 00
                                        nop1
                                               0x0(%rax)
  69
 70
      000000000400d10 <register_tm_clones>:
 71
         400d10: b8 40 37 60 00
                                               $0x603740, %eax
 72
         400d15: 55
                                               %rbp
                                        push
 73
         400d16: 48 2d 40 37 60 00
                                        sub
                                               $0x603740,%rax
         400d1c: 48 c1 f8 03
 74
                                               $0x3,%rax
                                        sar
         400d20: 48 89 e5
 75
                                        mov
                                               %rsp,%rbp
 76
        400d23: 48 89 c2
                                               %rax,%rdx
                                        mov
        400d26: 48 c1 ea 3f
 77
                                        shr
                                               $0x3f,%rdx
 78
        400d2a: 48 01 d0
                                        add
                                               %rdx,%rax
 79
         400d2d: 48 d1 f8
                                        sar
                                               %rax
        400d30: 75 02
 80
                                        jne
                                               400d34 <register_tm_clones+0x24>
 81
        400d32: 5d
                                        pop
                                               %rbp
 82
        400d33: c3
                                        reta
        400d34: ba 00 00 00 00
 83
                                        MOV
                                               $0x0, %edx
 84
        400d39: 48 85 d2
                                        test
                                               %rdx,%rdx
        400d3c: 74 f4
 85
                                               400d32 <register_tm_clones+0x22>
                                        je
        400d3e: 5d
 86
                                        pop
                                               %rbp
 87
        400d3f: 48 89 c6
                                        mov
                                               %rax,%rsi
        400d42: bf 40 37 60 00
                                               $0x603740,%edi
 88
                                        mov
 89
        400d47: ff e2
                                        jmpq
                                               *%rdx
 90
        400d49: 0f 1f 80 00 00 00 00
                                       nopl
                                               0x0(%rax)
 91
 92
      0000000000400d50 <__do_global_dtors_aux>:
 93
        400d50: 80 3d 01 2a 20 00 00 cmpb
                                               $0x0,0x202a01(%rip)
                                                                           # 603758 <completed.6976>
 94
        400d57: 75 11
                                               400d6a <__do_global_dtors_aux+0x1a>
                                        ine
 95
        400d59: 55
                                       push
                                               %rbp
 96
        400d5a: 48 89 e5
                                       mov
                                               %rsp,%rbp
 97
        400d5d: e8 7e ff ff ff
                                       callq
                                               400ce0 <deregister_tm_clones>
 98
        400d62: 5d
                                               %rbp
                                       pop
        400d63: c6 05 ee 29 20 00 01 movb
 99
                                               $0x1,0x2029ee(%rip)
                                                                           # 603758 <completed.6976>
100
        400d6a: f3 c3
                                       repz retq
101
        400d6c: 0f 1f 40 00
                                       nopl
                                               0x0(%rax)
102
103
      0000000000400d70 <frame_dummy>:
        400d70: 48 83 3d 90 20 20 00 cmpq
104
                                               $0x0,0x202090(%rip)
                                                                           # 602e08 <__JCR_END__>
105
        400d77: 00
106
        400d78: 74 1e
                                       je
                                               400d98 <frame_dummy+0x28>
107
        400d7a: b8 00 00 00 00
                                               $0x0,%eax
                                       mov
108
        400d7f: 48 85 c0
                                       test
                                               %rax, %rax
109
        400d82: 74 14
                                       jе
                                               400d98 <frame_dummy+0x28>
110
        400d84: 55
                                       push
                                               %rbp
        400d85: bf 08 2e 60 00
111
                                       mov
                                               $0x602e08,%edi
        400d8a: 48 89 e5
112
                                       mov
                                               %rsp,%rbp
        400d8d: ff d0
113
                                       callq
                                              *%rax
114
        400d8f: 5d
                                       pop
                                              %rbp
115
        400d90: e9 7b ff ff ff
                                       jmpq
                                              400d10 <register_tm_clones>
116
        400d95: 0f 1f 00
                                       nopl
                                               (%rax)
117
        400d98: e9 73 ff ff ff
                                       jmpq
                                              400d10 <register_tm_clones>
        400d9d: 90
118
                                       nop
119
       400d9e: 90
                                       nop
120
        400d9f: 90
                                       nop
121
122
      0000000000400da0 <main>:
```

```
123
          400da0: 53
                                         push
                                                 %rbx
 124
          400da1: 83 ff 01
                                         cmp
                                                 $0x1,%edi
 125
          400da4: 75 10
                                                 400db6 <main+0x16>
                                         ine
 126
          400da6: 48 8b 05 9b 29 20 00
                                         mov
                                                 0x20299b(%rip),%rax
                                                                             # 603748
        <stdin@@GLIBC_2.2.5>
 127
          400dad: 48 89 05 b4 29 20 00
                                                %rax,0x2029b4(%rip)
                                         mov
                                                                             # 603768 <infile>
 128
          400db4: eb 63
                                         jmp
                                                400e19 <main+0x79>
         400db6: 48 89 f3
 129
                                                %rsi,%rbx
                                         mov
 130
         400db9: 83 ff 02
                                         cmp
                                                $0x2,%edi
 131
         400dbc: 75 3a
                                                400df8 <main+0x58>
                                         ine
 132
         400dbe: 48 8b 7e 08
                                         mov
                                                0x8(%rsi),%rdi
         400dc2: be b4 22 40 00
 133
                                         mov
                                                $0x4022b4, %esi
 134
         400dc7: e8 44 fe ff ff
                                         callq
                                                400c10 <fopen@plt>
 135
         400dcc: 48 89 05 95 29 20 00
                                                %rax,0x202995(%rip)
                                        mov
                                                                             # 603768 <infile>
 136
         400dd3: 48 85 c0
                                         test
                                                %rax,%rax
 137
         400dd6: 75 41
                                                400e19 <main+0x79>
                                         ine
 138
         400dd8: 48 8b 4b 08
                                         mov
                                                0x8(%rbx),%rcx
         400ddc: 48 8b 13
 139
                                         mov
                                                (%rbx),%rdx
 140
         400ddf: be b6 22 40 00
                                         mov
                                                $0x4022b6,%esi
 141
         400de4: bf 01 00 00 00
                                                $0x1,%edi
                                         mov
 142
         400de9: e8 12 fe ff ff
                                         callq
                                                400c00 <__printf_chk@plt>
 143
         400dee: bf 08 00 00 00
                                         mov
                                                $0x8.%edi
 144
         400df3: e8 28 fe ff ff
                                                400c20 <exit@plt>
                                         calla
 145
         400df8: 48 8b 16
                                         mov
                                                (%rsi),%rdx
 146
         400dfb: be d3 22 40 00
                                         mov
                                                $0x4022d3,%esi
 147
         400e00: bf 01 00 00 00
                                        mov
                                                $0x1,%edi
 148
         400e05: b8 00 00 00 00
                                        mov
                                                $0x0,%eax
 149
         400e0a: e8 f1 fd ff ff
                                                400c00 <__printf_chk@plt>
                                        callq
 150
         400e0f: bf 08 00 00 00
                                                $0x8,%edi
                                        mov
151
         400e14: e8 07 fe ff ff
                                         callq
                                                400c20 <exit@plt>
152
         400e19: e8 84 05 00 00
                                        callq
                                                4013a2 <initialize_bomb>
153
         400e1e: bf 38 23 40 00
                                        mov
                                                $0x402338,%edi
154
         400e23: e8 e8 fc ff ff
                                        callq 400b10 <puts@plt>
         400e28: bf 78 23 40 00
155
                                        mov
                                                $0x402378,%edi
156
         400e2d: e8 de fc ff ff
                                        callq 400b10 <puts@plt>
157
         400e32: e8 67 06 00 00
                                        callq 40149e <read_line>
158
         400e37: 48 89 c7
                                        mov
                                                %rax,%rdi
                                               400ee0 <phase_1>
4015c4 <phase_defused>
$0x4023a8.%edi $1$ trop " Phase I defused
400b10 <puts@plt>
        400e3a) e8 61 00 00 00
159
                                        callq
160
         400e3f: e8 80 07 00 00
                                        callo
161
        400e44: bf a8 23 40 00
                                        mov
162
        400e49: e8 c2 fc ff ff
                                        callq 400b10 <puts@plt>
163
        400e4e: e8 4b 06 00 00
                                        calla
                                               40149e <read_line>
164
        400e53: 48 89 c7
                                        mov
                                                %rax,%rdi
        400e56 e8 a1 00 00 00
165
                                        callq
                                               400efc <phase_2> <
                                                                              1248 1632
166
        400e5b: e8 64 07 00 00
                                        callq
                                               4015c4 <phase_defused>
        400e60: bf ed 22 40 00
167
                                               $0x4022ed, %edi
168
        400e65: e8 a6 fc ff ff
                                        callq 400b10 <puts@plt>
169
        400e6a: e8 2f 06 00 00
                                        callo
                                               40149e <read_line>
170
        400e6f: 48 89 c7
                                        mov
                                               %rax,%rdi •
1.71
        400e72: e8 cc 00 00 00
                                        callq 400f43 <phase_3> 	
172
        400e77: e8 48 07 00 00
                                               4015c4 <phase_defused>
                                        callo
173
        400e7c: bf 0b 23 40 00
                                        mov
                                               $0x40230b,%edi
174
        400e81: e8 8a fc ff ff
                                        callq 400b10 <puts@plt>
175
        400e86: e8 13 06 00 00
                                        callq
                                               40149e <read_line>
176
        400e8b: 48 89 c7
                                               %rax,%rdi
                                        mov
177
        400e8e: e8 79 01 00 00
                                        callq
                                               40100c <phase_4>€
178
        400e93: e8 2c 07 00 00
                                        callq
                                               4015c4 <phase_defused>
179
        400e98: bf d8 23 40 00
                                        mov
                                               $0x4023d8,%edi
180
        400e9d: e8 6e fc ff ff
                                        callq 400b10 <puts@plt>
181
        400ea2: e8 f7 05 00 00
                                        callq 40149e <read_line>
182
        400ea7: 48 89 c7
                                        mov
                                               %rax,%rdi
183
       (400eaa:) e8 b3 01 00 00
                                        callq 401062 <phase_5>
        400eaf: e8 10 07 00 00
184
                                        callq 4015c4 <phase_defused>
```

``.

```
185
         400eb4: bf 1a 23 40 00
                                          mov
                                                 $0x40231a, %edi
186
         400eb9: e8 52 fc ff ff
                                                 400b10 <puts@plt>
187
         400ebe: e8 db 05 00 00
                                         callq
                                                 40149e <read_line>
188
         400ec3: 48 89 c7
                                         mov
                                                 %rax,%rdi
189
         400ec6: e8 29 02 00 00
                                         callq
                                                 4010f4 <phase_6> •
190
         400ecb: e8 f4 06 00 00
                                                 4015c4 <phase_defused>
                                         callq
191
         400ed0: b8 00 00 00 00
                                         mov
                                                 $0x0,%eax.
         400ed5: 5b
192
                                         pop
                                                 %rbx
193
         400ed6: c3
                                         retq
194
         400ed7: 90
                                         nop
195
         400ed8: 90
                                         nop
196
         400ed9: 90
                                         nop
197
         400eda: 90
                                         non
198
         400edb: 90
                                         nop
199
         400edc: 90
                                         nop
200
         400edd: 90
                                         nop
201
         400ede: 90
                                         nop
         400edf: 90
202
                                         nop
203
204
      000000000400ee0 <phase_1>:
205
         400ee0: 48 83 ec 08
                                         sub
                                                 $0x8,%rsp
                                                                    4203520
206
         400ee4: be 00 24 40 00
                                         mov
                                                 $0x402400,%esi
                                                 401338 <strings_not_equal> line 559
207
         400ee9: e8 4a 04 00 00
                                         callq
208
         400eee: 85 c0
                                         test
                                                 %eax,%eax
209
         400ef0: 74 05
                                         jе
                                                 400ef7 <phase_1+0x17>
                                         callq
210
         400ef2: e8 43 05 00 00
                                                 40143a <explode_bomb>
         400ef7: 48 83 c4 08
211
                                         add
                                                 $0x8,%rsp
212
        400efb: c3
                                         reta
213
214
      000000000400efc <phase_2>:
215
        400efc: 55
                                         push
                                                 %rbp
216
        400efd: 53
                                                 %rhx
                                         bush
        400efe: 48 83 ec 28
217
                                         sub
                                                 $0x28,%rsp
        400f02: 48 89 e6
218
                                                 %rsp,%rsi
                                         mov
                                                40145c <read_six_numbers>
219
        400f05: e8 52 05 00 00
                                         callo
                                                 $0x1,(%rsp)
        400f0a: 83 3c 24 01
220
                                         cmp1
        400f0e: 74 20
                                                 400f30 <phase 2+0x34> V
221
                                         jе
222
        400f10: e8 25 05 00 00
                                                40143a <explode_bomb> X
                                         calla
                                                                                      *% 16x = el4f4 >5

*% 16x 4 = el4f8 35

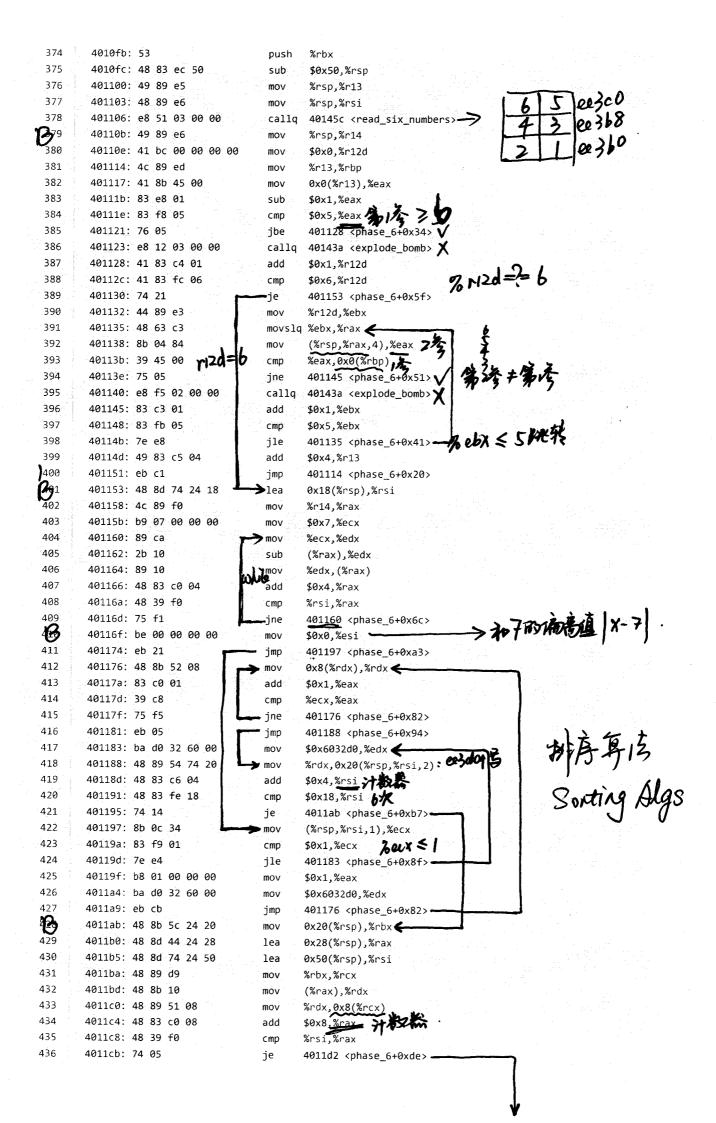
for +4 fc 45

+4 500 55

+4 810x 65
223
                                                 400f30 <phase_2+0x34> 🗸
        400f15: eb 19
                                         jmp
        400+17: 8b 43 fc
224
                                                 -0x4(%rbx),%eax
                                         mov
225
        400f1a: 01 c0
                                         add
                                                %eax,%eax X 2
226
        400f1c: 39 03
                                                %eax,(%rbx)
                                         CMD
227
        400f1e: 74 05
                                                400f25 <phase_2+0x29>
                                         jе
228
        400f20: e8 15 05 00 00
                                         callq
                                                40143a <explode bomb>
229
        400f25: 48 83 c3 04
                                         add
                                                $0x4,%rbx
230
        400f29: 48 39 eb
                                         cmp
                                                %rbp,%rbx
231
        400f2c: 75 e9
                                         jne
                                                400f17 <phase 2+0x1b>
232
        400f2e: eb 0c
                                                400f3c <phase_2+0x40>
                                         imp
233
        400f30: 48 8d 5c 24 04
                                         1ea
                                                0x4(%rsp),%rbx
234
        400f35: 48 8d 6c 24 18
                                        lea
                                                0x18(%rsp),%rbp
235
        400f3a: eb db
                                                400f17 <phase_2+0x1b>
                                         dmir
236
        400f3c: 48 83 c4 28
                                        add
                                                $0x28,%rsp
237
        400f40: 5b
                                        pop
                                                %rbx
238
        400f41: 5d
                                                %rbp
                                        pop
239
        400f42: c3
                                        reta
240
      00000000000400543 <phase_3>:
241
242
        400f43: 48 83 ec 18
                                                $0x18,%rsp
                                        sub
        400f47: 48 8d 4c 24 0c
243
                                        lea
                                                0xc(%rsp),%rcx
        400f4c: 48 8d 54 24 08
244
                                        lea
                                                0x8(%rsp),%rdx
245
        400f51: be cf 25 40 00
                                        mov
                                                $0x4025cf,%esi
246
        400f56: b8 00 00 00 00
                                        mov
                                                $0x0,%eax
247
        400f5b: e8 90 fc ff ff
                                                400bf0 <__isoc99_sscanf@plt>
                                        callq
```

	-210	b)
	两条(a	(
248	400f60: 83 f8 01	cmp \$0x1,%eax - 22 4 1
249	400f63: 7f 05	JE 40010a Chilase_3+0x2/>
250 251	400f65: e8 d0 04 00 00 400f6a: 83 7c 24 08 07	callq 40143a <explode_bomb> 7 cmpl \$0x7,0x8(%rsp)</explode_bomb>
252	400f6f: 77 3c	cmp1 \$0x7,0x8(%rsp) (12) ja
253	400f71: 8b 44 24 08	mov 0x8(%rsp),%eax jmpq *0x402470(,%rax,8) 138witch#7
254	400f75: ff 24 c5 70 24 40 00	
255	490f7c: b8 cf 00 00 00	mov \$0xcf,%eax
256 257	400f81: eb 3b 400f83: b8 c3 02 00 00	<pre>jmp 400fbe <phase_3+0x7b> mov \$0x2c3,%eax</phase_3+0x7b></pre>
258	400f88: eb 34	jmp 400fbe <phase_3+0x7b></phase_3+0x7b>
259	400f8a: b8 00 01 00 00	mov \$0x100,%eax
260	400f8f: eb 2d	jmp 400fbe <phase_3+0x7b></phase_3+0x7b>
261	400f91: b8 85 01 00 00	mov \$0x185,%eax
262 263	400f96: eb 26 400f98: b8 ce 00 00 00	jmp 400fbe <phase_3+0x7b></phase_3+0x7b>
264	400f9d: eb 1f	mov \$0xce,%eax jmp 400fbe <phase_3+0x7b></phase_3+0x7b>
265	400f9f: b8 aa 02 00 00	mov \$0x2aa,%eax
266	400fa4: eb 18	jmp 400fbe <phase_3+0x7b></phase_3+0x7b>
267	400fa6: b8 47 01 00 00	mov \$0x147,%eax
268	400fab: eb 11	jmp 400fbe <phase_3+0x7b></phase_3+0x7b>
269 270	400fad: e8 88 04 00 00 400fb2: b8 00 00 00 00	callq 40143a <explode_bomb> ✓</explode_bomb>
270	400fb7: eb 05	mov \$0x0,%eax jmp 400fbe <phase_3+0x7b>.</phase_3+0x7b>
272	400fb9: b8 37 01 00 00	mov \$0x137,%eax
273	400fbe: 3b 44 24 0c	mov \$0x137,%eax cmp $0xc(%rsp),%eax$ ie 4996c9 cphase 319866
274	400fc2: 74 05	3C - 4001C3 Chilase_340X867
275	400fc4: e8 71 04 00 00	callq 40143a <explode_bomb></explode_bomb>
276 277	400fc9: 48 83 c4 18 400fcd: c3	add \$0x18,%rsp retq 10
278	1 Th. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A. 4 (rdi 15)
279	0000000000400fce \func4>:	ture (1 mg, 10 mg
280	400fce: 48 83 ec 08	sub \$0x8,%rsp
281	400fd2: 89 d0	mov %edx,%eax
282 283	400fd4: 29 f0 400fd6: 89 c1	sub & wesi, weax
284	400fd8: c1 e9 1f	mov %eax,%ecx shr \$0x1f,%ecx
285	400fdb: 01 c8	add %ecx,%eax
286	400fdd: d1 f8	sar %eax
287	400fdf: 8d 0c 30	lea (%rax,%rsi,1),%ecx
288		ile 400ff2 <func4+0x24></func4+0x24>
289 290	400fe4: 7e 0c 400fe6: 8d 51 ff	jle 400ff2 <func4+0x24> 0(1)</func4+0x24>
291	4	lea -0x1(%rcx),%edx callq 400fce <func4></func4>
292		add %eax,%eax
293	400ff0: eb 15	jmp 401007 <func4+0x39></func4+0x39>
294	i de la companya de	mov \$0x0,%eax
295		cmp () <u>%edi</u> , %ecx -jge 401007 <func4+0x39> ecx > odi </func4+0x39>
296 297	l l	jge 401007 <func4+0x39> ecx > ecx > cx</func4+0x39>
298		lea 0x1(%rcx),%esi callq 400fce <func4></func4>
299		lea 0x1(%rax,%rax,1),%eax
300	401007: 48 83 c4 08	add \$0x8,%rsp
301	40100b: c3	retq
302	000000000000000000000000000000000000000	
303 304	0000000000040100c <pha=-4>: 40100c: 48 83 ec 18</pha=-4>	sub \$4x19 %nsn
		sub \$0x18,%rsp lea 0xc(%rsp),%rcx
305	401010: 48 80 4C 24 0C	
305 306		lea 0x8(%rsp),%rdx
	401015: 48 8d 54 24 08	
306 307 308	401015: 48 8d 54 24 08 40101a: be cf 25 40 00 40101f: b8 00 00 00 00	lea 0x8(%rsp),%rdx
306 307	401015: 48 8d 54 24 08 40101a: be cf 25 40 00 40101f: b8 00 00 00 00 401024: e8 c7 fb ff ff	lea

```
311
        40102c: 75 07
                                             401035 <phase_4+0x29> X
                                      jne
                                                                      *(% 10p+8)> $0xe.
 312
        40102e: 83 7c 24 08 0e
                                             $0xe,0x8(%rsp)
 313
        401033: 76 05
                                             40103a <phase 4+0x2e>
                                      callq 40143a <explode_bomb>
 314
        401035: e8 00 04 00 00
 315
        40103a: ba 0e 00 00 00
                                      mov
                                             $0xe,%edx
 316
        40103f: be 00 00 00 00
                                      mov
                                             $0x0,%esi
                                                           317
        401044: 8b 7c 24 08
                                      mov
                                             0x8(%rsp),%edi
 318
        401048: e8 81 ff ff ff
                                      callq
                                            400fce <func4>
5319
        40104d: 85 c0
                                      test
                                             %eax,%eax .
 320
        40104f: 75 07
                                      ine
                                             401058 <phase 4+0x4c>
321
        401051: 83 7c 24 0c 00
                                      cmp1
                                             $0x0,0xc(%rsp)
322
        401056: 74 05
                                      jе
                                             40105d <phase_4+0x51>
323
        401058: e8 dd 03 00 00
                                      callq
                                            40143a <explode_bomb>
324
        40105d; 48 83 c4 18
                                      add
                                             $0x18,%rsp
        401061: c3
325
                                      retq
326
327
      000000000040106
        401062: 53
328
                                      push
                                            %rbx
329
        401063: 48 83 ec 20
                                      sub
                                             $0x20,%rsp
330
        401067: 48 89 fb
                                            %rdi,%rbx
                                      mov
331
        40106a: 64 48 8b 04 25 28 00
                                      mov
                                            %fs:0x28,%rax
332
        401071: 00 00
333
        401073: 48 89 44 24 18
                                            %rax, 0x18(%rsp)
                                      mov
        401078: 31 c0
334
                                      xor
                                            %eax,%eax
                                            335
        40107a: e8 9c 02 00 00
                                            40131b <string_length>
                                      calla
5836
        40107f: 83 f8 06
                                      cmp
337
        401082: 74 4e
                                      jе
338
        401084: e8 b1 03 00 00
                                      callq 40143a <explode bomb>
339
        401089: eb 47
                                            4010d2 <phase_5+0x70>
                                      imp
340
        40108b: 0f b6 0c 03
                                     341
        40108f: 88 0c 24
                                      mov
                                            %cl,(%rsp)
342
        401092: 48 8b 14 24
                                      mov
                                             (%rsp)(,%rdx
343
        401096: 83 e2 0f
                                            $0xf(%edx)
                                      and
        401099: 0f b6 92 b0 24 40 00
344
                                     movzbl 0x4024b0(%rdx), %edx
345
        4010a0: 88 54 04 10
                                     mov
                                            %dl,0x10(%rsp,%rax,1)
346
        4010a4: 48 83 c0 01
                                     add
                                            $0x1,%rax
                                            $0x6, %rax 1622
347
        4010a8: 48 83 f8 06
                                     cmp
348
        4010ac: 75 dd
                                     ine
                                            40108b <phase 5+0x29>
349
        4010ae: c6 44 24 16 00
                                     movb
                                            $0x0,0x16(%rsp)
350
        4010b3: be 5e 24 40 00
                                     mov
                                            $0x40245e,%esi
351
        4010b8: 48 8d 7c 24 10
                                            0x10(%rsp),%rdi
352
        4010bd: e8 76 02 00 00
                                     callq
                                            401338 <strings_not_equal>
                                                                        \% == 0.
353
        4010c2: 85 c0
                                     test
                                            %eax,%eax
354
        4010c4: 74 13
                                     iе
                                            4010d9 <phase_5+0x77>
355
        4010c6: e8 6f 03 00 00
                                     callq
                                           40143a <explode_bomb>
356
        4010cb: 0f 1f 44 00 00
                                     nop1
                                            0x0(%rax,%rax,1)
357
        4010d0: eb 07
                                            4010d9 <phase_5+0x77>
358
        4010d2: b8 00 00 00 00
                                     mov
                                            $0x0,%eax
359
        4010d7: eb b2
                                     imo
                                            40108b <phase_5+0x29> •
360
        4010d9: 48 8b 44 24 18
                                            0x18(%rsp),%rax (
                                     mov
361
        4010de: 64 48 33 04 25 28 00
                                     xor
                                            %fs:0x28,%rax
        4010e5: 00 00
362
        4010e7: 74 05
363
                                     jе
                                            4010ee <phase_5+0x8c>
364
        4010e9: e8 42 fa ff ff
                                     callq
                                            400b30 <__stack_chk_fail@plt>
365
        4010ee: 48 83 c4 20
                                     add
                                            $0x20,%rsp
366
        4010f2: 5b
                                            %rbx
                                     pop
367
        4010f3: c3
                                     retq
368
      00000000004010f4 <phase_6>:
369
370
        4010f4: 41 56
                                     push
                                            %r14
371
        4010f6: 41 55
                                     push
                                            %r13
372
        4010f8: 41 54
                                     push
                                            %r12
       4010fa: 55
373
                                     push
                                            %rbp
```



```
437
        4011cd: 48 89 d1
                                               %rdx, %rcx
                                        mov
438
        4011d0: eb eb
                                               4011bd <phase_6+0xc9>
                                        imp
                                               $0x0,0x8(%rdx) <
439
        4011d2: 48 c7 42 08 00 00 00
                                        mova
440
        401109: 00
B
        4011da: bd 05 00 00 00
                                        mov
                                               $0x5,%ebp
        4011df: 48 8b 43 08
                                               0x8(%rbx),%rax <
                                        mov
        4011e3: 8b 00
443
                                               (%rax), %eax
                                        mov
444
        4011e5: 39 03
                                               %eax,(%rbx)
                                        cmp
445
        4011e7: 7d 05
                                               4011ee <phase_6+0xfa>
                                        ige
        4011e9: e8 4c 02 00 00
                                               40143a <explode bomb>
446
                                        callq
        4011ee: 48 8b 5b 08
447
                                        mov
                                               0x8(%rbx),%rbx
                                               $0x1, %ebp / 
        4011f2: 83 ed 01
448
                                        sub
        4011f5: 75 e8
                                               4011df <phase_6+0xeb>
449
                                        ine
450
        4011f7: 48 83 c4 50
                                        add
                                               $0x50,%rsp
        4011fb: 5b
                                               %rbx
451
                                        pop
452
        4011fc: 5d
                                               %rbp
                                        pop
        4011fd: 41 5c
453
                                        pop
                                               %r12
454
        4011ff: 41 5d
                                        pop
                                               %r13
455
        401201: 41 5e
                                        pop
                                               %r14
        401203: c3
                                        reta
456
                                   这国道 eax 以为
457
458
      0000000000401204 <fun7>:
        401204: 48 83 ec 08
                                               $0x8,%rsp
459
                                        sub
460
        401208: 48 85 ff
                                        test
                                               %rdi,%rdi
                                               401238 <fun7+0x34>
461
        40120b: 74 2b
        40120d: 8b 17
                                               (%rdi),%edx
462
                                        mov
                                                          Zedx > Zesi
463
        40120f: 39 f2
                                        cmp
                                               %esi,%edx
                                               401220 <fun7+0x1c>
464
        401211: 7e 0d
                                       -jle
        401213: 48 8b 7f 08
                                               0x8(%rdi),%rdi
465
                                        mov
        401217: e8 e8 ff ff ff
466
                                               401204 <funZ
467
        40<u>121c:</u> 01 c0
                                        add
                                               %eax,%eax
        40121e: eb 1d
                                               40123d <fun7+0x39>
468
                                        imp
                                               $0x0,%eax
        401220: b8 00 00 00 00
469
                                       mov
                                               %esi, %edx 7 ed X + esi
470
        401225: 39 f2
                                        cmp
471
        401227: 74 14
                                               40123d <fun7+0x39>
                                        iе
472
        401229: 48 8b 7f 10
                                               0x10(%rdi),%rdi
                                        mov
473
        40122d: e8 d2 ff ff ff
                                        callq
                                               401204 <fun7>
        401232: 8d 44 00 01
474
                                        lea
                                               0x1(%rax,%rax,1),%eax
        401236: eb 05
                                               40123d <fun7+0x39>
475
                                        imp
476
        401238: b8 ff ff ff ff
                                               $0xffffffff, %eax
                                        mOV
477
        40123d: 48 83 c4 08
                                               $0x8,%rsp 	
                                        add
        401241: c3
478
                                        reta
479
480
      0000000000401242 <secret_phase>:
481
        401242: 53
                                               %rbx
                                        push
        401243: e8 56 02 00 00
482
                                        callq
                                               40149e <read_line>
                                                                              Strtol (char *nptr, char*edper, pat base)
483
        401248: ba 0a 00 00 00
                                               $0xa,%edx 10
                                        mov
                                               $0x0,%esi
484
        40124d: be 00 00 00 00
                                        mov
6
        401252: 48 89 c7
                                               %rax,%rdi
                                        mov
486
        401255: e8 76 f9 ff ff
                                               400bd0 <strtol@plt>
487
        40125a: 48 89 c3
                                        mov
                                               %rax,%rbx
488
        40125d: 8d 40 ff
                                        lea
                                               -0x1(%rax),%eax
489
        401260: 3d e8 03 00 00
                                               $0x3e8, %eax
490
        401265: 76 05
                                        jbe
                                               40126c <secret_phase+0x2a>
        401267: e8 ce 01 00 00
491
                                               40143a <explode_bomb>
                                        callq
        40126c: 89 de
492
                                        mov
                                               %ebx,%esi
        40126e: bf f0 30 60 00
493
                                        mov
                                               $0x6030f0, %edi
494
        401273; e8 8c ff ff ff
                                               401204 <fun7>
                                        calla
                                                               700^{x} = 2
        401278: 83 f8 02
495
                                        cmp
                                               $0x2,%eax
496
        40127b: 74 05
                                        je
                                               401282 <secret_phase+0x40>
497
        40127d: e8 b8 01 00 00
                                               40143a <explode_bomb>
                                        calla
498
        401282: bf 38 24 40 00
                                        mov
                                               $0x402438,%edi
499
        401287: e8 84 f8 ff ff
                                        callq
                                               400b10 <puts@plt>
```

```
40128c: e8 33 03 00 00
                                        callq 4015c4 <phase_defused>
500
501
        401291: 5b
                                        pop
                                               %rhx
502
        401292: c3
                                        retq
        401293: 90
503
                                        nop
504
        401294: 90
                                        nop
        401295: 90
505
                                        nop
506
        401296: 90
                                        nop
        401297: 90
507
                                        nop
        401298: 90
508
                                        nop
509
        401299: 90
                                        nop
        40129a: 90
510
                                        nop
511
        40129b: 90
                                        nop
512
        40129c: 90
                                        nop
        40129d: 90
513
                                        nop
        40129e: 90
514
                                        nop
515
        40129f: 90
                                        nop
516
517
      0000000004012a0 <sig_handler>:
518
        4012a0: 48 83 ec 08
                                        sub
                                               $0x8,%rsp
        4012a4: bf c0 24 40 00
                                               $0x4024c0,%edi
519
                                        mov
                                               400b10 <puts@plt>
        4012a9: e8 62 f8 ff ff
520
                                        callq
        4012ae: bf 03 00 00 00
                                               $0x3,%edi
521
522
        4012b3: e8 98 f9 ff ff
                                        calla
                                               400c50 <sleep@plt>
                                               $0x402582,%esi
        4012b8: be 82 25 40 00
523
                                        mov
        4012bd: bf 01 00 00 00
                                        mov
                                               $0x1,%edi
524
525
        4012c2: b8 00 00 00 00
                                        mov
                                               $0x0, %eax
                                               400c00 <__printf_chk@plt>
526
        4012c7: e8 34 f9 ff ff
                                        calla
527
        4012cc: 48 8b 3d 6d 24 20 00
                                        mov
                                               0x20246d(%rip),%rdi
                                                                            # 603740 <__bss_start>
528
        4012d3: e8 08 f9 ff ff
                                        callq
                                               400be0 <fflush@plt>
        4012d8: bf 01 00 00 00
                                               $0x1,%edi
529
                                        mov
530
        4012dd: e8 6e f9 ff ff
                                        callq
                                               400c50 <sleep@plt>
531
        4012e2: bf 8a 25 40 00
                                        mov
                                               $0x40258a,%edi
        4012e7: e8 24 f8 ff ff
                                               400b10 <puts@plt>
                                        calla
532
533
        4012ec: bf 10 00 00 00
                                        mov
                                               $0x10,%edi
534
        4012f1: e8 2a f9 ff ff
                                        callq 400c20 <exit@plt>
535
      00000000004012f6 <invalid_phase>:
536
537
        4012f6: 48 83 ec 08
                                               $0x8,%rsp
538
        4012fa: 48 89 fa
                                        mov
                                               %rdi,%rdx
539
        4012fd: be 92 25 40 00
                                        mov
                                               $0x402592,%esi
540
        401302: bf 01 00 00 00
                                               $0x1,%edi
                                        mov
541
        401307: b8 00 00 00 00
                                               $0x0,%eax
                                        mov
        40130c: e8 ef f8 ff ff
542
                                               400c00 <__printf_chk@plt>
                                        callq
543
        401311: bf 08 00 00 00
                                               $0x8,%edi
544
        401316: e8 05 f9 ff ff
                                        callq
                                               400c20 <exit@plt>
545
546
      000000000040131b <string_length>:
                                               401332 <string_length+0x17> // 的第 2 di 发放为 0, 2 eax 是 0 %rdi, %rdx
        40131b: 80 3f 00
547
                                        cmpb
        40131e: 74 12
548
                                        jе
        401320: 48 89 fa
549
                                        mov
        401323: 48 83 c2 01
                                               $0x1,%rdx
550
                                        add
        401327: 89 d0
                                               %edx,%eax
551
                                        mov
552
        401329: 29 f8
                                        sub
                                               %edi,%eax
553
        40132b: 80 3a 00
                                        cmpb
                                               $0x0,(%rdx)
554
        40132e: 75 f3
                                               401323 <string_length+0x8>
                                        ine
        401330: f3 c3
555
                                        repz retq
556
        401332: b8 00 00 00 00
                                               $0x0,%eax
                                        mov
557
        401337: c3
                                        reta
558
559
      000000000401338 <strings_not_equal>:
560
        401338: 41 54
                                               %r12
                                        push
        40133a: 55
561
                                               %rbp
                                        push
562
        40133b: 53
                                        push
                                               %rbx
```

```
( pm > (mystnig)
        40133c: 48 89 fb
563
                                     mov
                                     mov %rsi, %rbp (ans)
        40133f: 48 89 f5
564
                                            40131b <string_length> Like 546
                                            %eax, %r12d // % +12d = len ( mystring)
        401342: e8 d4 ff ff ff
                                      callo
565
        401347: 41 89 c4
566
                                     mov
                                            %rbp,%rdi
567
        40134a: 48 89 ef
                                     mov
                                            40131b <string_length> L546
568
        40134d: e8 c9 ff ff ff
                                     calla
                                            $0x1, %edx // %edx = $0x1
569
        401352: ba 01 00 00 00
                                     mov
                                                        11 if ( len(mystring = = ans))
570
        401357: 41 39 c4
                                            %eax,%r12d
                                     cmp
                                            40139b <strings_not_equal+0x63> // 女5276行
571
        40135a: 75 3f
        40135c: 0f b6 03
572
                                     movzbl (%rbx),%eax
        40135f: 84 c0
                                            %al,%al
                                            573
                                     test
574
        401361: 74 25
                                     iе
575
        401363: 3a 45 00
                                            0x0(%rbp),%a1
                                     CMD
576
        401366: 74 0a
                                            401372 <strings_not_equal+0x3a>
                                      je
577
        401368: eb 25
                                            40138f <strings_not_equal+0x57> X
                                     jmp
578
        40136a: 3a 45 00
                                     cmp
                                            0x0(%rbp),%al
        40136d: 0f 1f 00
579
                                            (%rax)
                                     nopl
       401370: 75 24
580
                                     jne
                                            401396 <strings_not_equal+0x5e>
581
        401372: 48 83 c3 01
                                     add
                                            $0x1,%rbx
582
        401376: 48 83 c5 01
                                     add
                                            $0x1,%rbp
        40137a: 0f b6 03
583
                                     movzbl (%rbx),%eax
584
        40137d: 84 c0
                                            %al,%al
                                     test
585
        40137f: 75 e9
                                     ine
                                            40136a <strings_not_equal+0x32>
        401381: ba 00 00 00 00
586
                                     mov
                                            $0x0,%edx
                                                        // neturn
587
        401386: eb 13
                                            40139b <strings_not_equal+0x63>
                                     jmp
        401388: ba 00 00 00 00
                                            $0x0, %edx // Noturn 0
588
                                     mov
       40138d: eb 0c
                                            40139b <strings_not_equal+0x63>
589
                                     jmp
590
       40138f: ba 01 00 00 00
                                            $0x1,%edx // return
                                     mov
                                            40139b <strings_not_equal+0x63>
591
       401394: eb 05
                                     jmp
       401396: ba 01 00 00 00
592
                                            $0x1,%edx
                                     mov
                                            %edx,%eax // return / X(高符本版符等
       40139b: 89 d0
593
                                     mov
594
       40139d: 5b
                                     pop
595
        40139e: 5d
                                            %rbp
                                     pop
       40139f: 41 5c
596
                                     pop
                                            %r12
597
       4013a1: c3
                                     retq
598
      00000000004013a2 <initialize_bomb>:
599
600
       4013a2: 48 83 ec 08
                                            $0x8,%rsp
       4013a6: be a0 12 40 00
601
                                     mov
                                            $0x4012a0,%esi
        4013ab: bf 02 00 00 00
602
                                     mov
                                            $0x2,%edi
603
       4013b0: e8 db f7 ff ff
                                     callq 400b90 <signal@plt>
604
       4013b5: 48 83 c4 08
                                     add
                                            $0x8,%rsp
       4013b9: c3
605
                                     reta
606
607
      0000000004013ba <initialize_bomb_solve>:
608
       4013ba: f3 c3
                                     repz reta
609
610
      00000000004013bc <blank_line>:
611
       4013bc: 55
                                     push
                                            %rbn
       4013bd: 53
612
                                     push
                                            %rbx
613
       4013be: 48 83 ec 08
                                     sub
                                            $0x8,%rsp
614
       4013c2: 48 89 fb
                                            %rdi,%rbx
                                     mov
615
       4013c5: eb 17
                                     jmp
                                            4013de <blank_line+0x22>
616
       4013c7: e8 94 f8 ff ff
                                     callq 400c60 <__ctype_b_loc@plt>
617
       4013cc: 48 83 c3 01
                                     add
                                            $0x1,%rbx
       4013d0: 48 Of be ed
618
                                     movsbq %bp1,%rbp
       4013d4: 48 8b 00
619
                                     mov
                                            (%rax), %rax
620
       4013d7: f6 44 68 01 20
                                     testb
                                            $0x20,0x1(%rax,%rbp,2)
621
       4013dc: 74 0f
                                            4013ed <blank_line+0x31>
                                     iе
       4013de: 0f b6 2b
622
                                     movzbl (%rbx),%ebp
623
       4013e1: 40 84 ed
                                     test
                                            %bpl,%bpl
624
       4013e4: 75 e1
                                            4013c7 <blank_line+0xb>
                                     ine
       4013e6: b8 01 00 00 00
625
                                     mov
                                            $0x1,%eax
```

```
626
        4013eb: eb 05
                                               4013f2 <blank_line+0x36>
                                        imp
627
        4013ed: b8 00 00 00 00
                                               $0x0,%eax
                                        mov
628
        4013f2: 48 83 c4 08
                                        add
                                               $0x8,%rsp
629
        4013f6: 5b
                                               %rbx
                                        pop
        4013f7: 5d
630
                                        pop
                                               %rbp
631
        4013f8: c3
                                        retq
632
      00000000004013f9 <skip>:
633
634
        4013f9: 53
                                        push
                                               %rbx
        4013fa: 48 63 05 5f 23 20 00
                                        movslq 0x20235f(%rip),%rax
                                                                            # 603760 <num_input_strings>
635
        401401: 48 8d 3c 80
636
                                        lea
                                               (%rax, %rax, 4), %rdi
        401405: 48 c1 e7 04
                                               $0x4,%rdi
637
                                        shl
638
        401409: 48 81 c7 80 37 60 00
                                        add
                                               $0x603780,%rdi
                                                                            # 603768 <infile>
639
        401410: 48 8b 15 51 23 20 00
                                        mov
                                               0x202351(%rip),%rdx
        401417; be 50 00 00 00
                                               $0x50,%esi
640
                                        mov
641
        40141c: e8 5f f7 ff ff
                                        callq
                                               400b80 <fgets@plt>
642
        401421: 48 89 c3
                                        mov
                                               %rax,%rbx
        401424: 48 85 c0
643
                                        test
                                               %rax.%rax
        401427: 74 0c
                                               401435 <skip+0x3c>
644
                                        jе
645
        401429: 48 89 c7
                                        mov
                                               %rax,%rdi
646
        40142c: e8 8b ff ff ff
                                        callq
                                               4013bc <blank line>
        401431: 85 c0
                                               %eax.%eax
647
                                        test
648
        401433: 75 c5
                                               4013fa <skip+0x1>
                                        ine
649
        401435: 48 89 d8
                                        mov
                                               %rbx,%rax
        401438: 5b
                                               %rbx
650
                                        pop
651
        401439: c3
                                        retq
652
653
      000000000040143a <explode bomb>:
654
        40143a: 48 83 ec 08
                                        sub
                                               $0x8,%rsp
        40143e: bf a3 25 40 00
                                               $0x4025a3,%edi
655
                                        mov
        401443: e8 c8 f6 ff ff
                                               400b10 <puts@plt>
656
                                        calld.
        401448: bf ac 25 40 00
                                               $0x4025ac, %edi
657
                                        mov
658
        40144d: e8 be f6 ff ff
                                        callq
                                               400b10 <puts@plt>
659
        401452: bf 08 00 00 00
                                        mov:
                                               $0x8,%edi
        401457: e8 c4 f7 ff ff
                                        callq 400c20 <exit@plt>
660
661
662
      000000000040145c <read_six_numbers>:
        40145c: 48 83 ec 18
663
                                               $0x18,%rsp
                                        sub
        401460: 48 89 f2
664
                                        mov
                                               %rsi,%rdx
665
        401463: 48 8d 4e 04
                                               0x4(%rsi),%rcx
                                        lea
666
        401467: 48 8d 46 14
                                               0x14(%rsi),%rax
                                        1ea
667
        40146b: 48 89 44 24 08
                                        mov
                                               %rax,0x8(%rsp)
668
        401470: 48 8d 46 10
                                               0x10(%rsi),%rax
                                        lea
669
        401474: 48 89 04 24
                                               %rax,(%rsp)
                                        mov
670
        401478: 4c 8d 4e 0c
                                               0xc(%rsi),%r9
                                        lea
671
        40147c: 4c 8d 46 08
                                        lea
                                               0x8(%rsi),%r8
        401480: be c3 25 40 00
672
                                        mov
                                               $0x4025c3,%esi
673
        401485: b8 00 00 00 00
                                               $0x0,%eax
                                        mov
        40148a: e8 61 f7 ff ff
674
                                        callq
                                               400bf0 <__isoc99_sscanf@plt>
675
        40148f: 83 f8 05
                                               $0x5,%eax
                                        cmp
676
        401492: 7f 05
                                               401499 <read_six_numbers+0x3d>
                                        jg
677
        401494: e8 a1 ff ff ff
                                               40143a <explode_bomb>
                                        callq
678
        401499: 48 83 c4 18
                                        add
                                               $0x18,%rsp
679
        40149d: c3
                                        retq
680
681
      000000000040149e <read_line>:
682
        40149e: 48 83 ec 08
                                        sub
                                               $0x8,%rsp
        4014a2: b8 00 00 00 00
683
                                               $0x0,%eax
                                        mov
        4014a7: e8 4d ff ff ff
684
                                        callq
                                               4013f9 <skip>
685
        4014ac: 48 85 c0
                                        test
                                               %rax,%rax
686
        4014af: 75 6e
                                        ine
                                               40151f <read_line+0x81>
687
        4014b1: 48 8b 05 90 22 20 00
                                               0x202290(%rip),%rax
                                       mov
                                                                            # 603748
      <stdin@@GLIBC_2.2.5>
```

```
%rax,0x2022a9(%rip)
                                                                         # 603768 <infile>
        4014b8: 48 39 05 a9 22 20 00 cmp
688
                                             4014d5 <read_line+0x37>
        4014bf: 75 14
689
                                      ine
                                              $0x4025d5,%edi
        4014c1: bf d5 25 40 00
                                      mov
690
                                      calla 400b10 <puts@plt>
        4014c6: e8 45 f6 ff ff
691
        4014cb: bf 08 00 00 00
                                      mov
                                              $0x8,%edi
692
                                      callq 400c20 <exit@plt>
693
        4014d0: e8 4b f7 ff ff
        4014d5: bf f3 25 40 00
                                      mov
                                              $0x4025f3,%edi
694
                                      callq 400ae0 <getenv@plt>
695
        4014da: e8 01 f6 ff ff
        4014df: 48 85 c0
                                             %rax,%rax
696
                                      test
                                              4014ee <read_line+0x50>
        4014e2: 74 0a
                                      je
697
        4014e4: bf 00 00 00 00
                                              $0x0.%edi
                                      mov
698
                                      callq 400c20 <exit@plt>
        4014e9: e8 32 f7 ff ff
699
                                              0x202253(%rip),%rax
                                                                         # 603748
        4014ee: 48 8b 05 53 22 20 00
                                      mov
700
      <stdin@@GLIBC_2.2.5>
                                              %rax,0x20226c(%rip)
                                                                         # 603768 <infile>
        4014f5: 48 89 05 6c 22 20 00
                                      mov
701
                                              $0x0,%eax
702
        4014fc: b8 00 00 00 00
                                      mov
        401501: e8 f3 fe ff ff
                                      callq 4013f9 <skip>
703
                                             %rax,%rax
704
        401506: 48 85 c0
                                      test
705
        401509: 75 14
                                      jne
                                              40151f <read_line+0x81>
        40150b: bf d5 25 40 00
                                      mov
                                              $0x4025d5, %edi
706
                                      callq 400b10 <puts@plt>
        401510: e8 fb f5 ff ff
707
        401515: bf 00 00 00 00
                                              $0x0,%edi
708
                                      mov
                                      callq 400c20 <exit@plt>
        40151a: e8 01 f7 ff ff
799
        40151f: 8b 15 3b 22 20 00
                                              0x20223b(%rip),%edx
                                                                         # 603760 <num_input_strings>
710
                                      mov
        401525: 48 63 c2
                                      movslq %edx,%rax
711
                                              (%rax,%rax,4),%rsi
712
        401528: 48 8d 34 80
                                      lea
                                       shl
                                              $0x4,%rsi
        40152c: 48 c1 e6 04
713
714
        401530: 48 81 c6 80 37 60 00 add
                                              $0x603780,%rsi
                                              %rsi,%rdi
715
        401537: 48 89 f7
                                      mov
        40153a: b8 00 00 00 00
                                              $0x0,%eax
                                       mov
716
                                              $0xffffffffffffff,%rcx
        40153f: 48 c7 c1 ff ff ff mov
717
718
        401546: f2 ae
                                       repnz scas %es:(%rdi),%al
        401548: 48 f7 d1
                                       not
                                              %rcx
719
                                      sub
                                              $0x1,%rcx
        40154b: 48 83 e9 01
720
721
        40154f: 83 f9 4e
                                       cmp
                                              $0x4e,%ecx
        401552: 7e 46
                                       jle
                                              40159a <read_line+0xfc>
722
        401554: bf fe 25 40 00
                                              $0x4025fe,%edi
723
                                       mov
        401559: e8 b2 f5 ff ff
                                       callq
                                              400b10 <puts@plt>
724
                                              0x2021fc(%rip),%eax
                                                                         # 603760 <num_input_strings>
725
        40155e: 8b 05 fc 21 20 00
                                       mov
        401564: 8d 50 01
                                              0x1(%rax),%edx
                                       lea
726
                                              %edx,0x2021f3(%rip)
                                                                         # 603760 < num input strings>
        401567: 89 15 f3 21 20 00
727
                                       mov
                                       cltq
728
        40156d: 48 98
        40156f: 48 6b c0 50
                                       imul
                                              $0x50,%rax,%rax
729
        401573: 48 bf 2a 2a 2a 74 72 movabs $0x636e7572742a2a2a,%rdi
730
731
        40157a: 75 6e 63
                                              %rdi,0x603780(%rax)
732
        40157d: 48 89 b8 80 37 60 00 mov
        401584: 48 bf 61 74 65 64 2a movabs $0x2a2a2a64657461,%rdi
733
734
        40158b: 2a 2a 00
        40158e: 48 89 b8 88 37 60 00 mov
                                              %rdi.0x603788(%rax)
735
                                       callo 40143a <explode bomb>
736
        401595: e8 a0 fe ff ff
                                              $0x1,%ecx
737
        40159a: 83 e9 01
                                       sub
                                       movslq %ecx, %rcx
738
        40159d: 48 63 c9
        4015a0: 48 63 c2
                                       movslq %edx,%rax
739
740
        4015a3: 48 8d 04 80
                                       lea
                                              (%rax,%rax,4),%rax
741
        4015a7: 48 c1 e0 04
                                       shl
                                              $0x4,%rax
        4015ab: c6 84 01 80 37 60 00 movb
                                              $0x0,0x603780(%rcx,%rax,1)
742
        4015b2: 00
743
744
        4015b3: 83 c2 01
                                       add
                                              $0x1,%edx
                                              %edx,0x2021a4(%rip)
                                                                          # 603760 <num_input_strings>
745
        4015b6: 89 15 a4 21 20 00
                                       mov
        4015bc: 48 89 f0
                                              %rsi.%rax
746
                                       mov
                                              $0x8,%rsp
747
        4015bf: 48 83 c4 08
                                       add
        4015c3: c3
748
                                       reta
749
```

```
750
      00000000004015c4 <phase_defused>:
751
         4015c4: 48 83 ec 78
                                                $0x78,%rsp
                                         sub
752
         4015c8: 64 48 8b 04 25 28 00
                                       mov
                                                %fs:0x28,%rax
753
         4015cf: 00 00
754
         4015d1: 48 89 44 24 68
                                        mov
                                                %rax,0x68(%rsp)
755
         4015d6: 31 c0
                                        xor
                                                %eax,%eax
756
         4015d8: 83 3d 81 21 20 00 06
                                                $0x6,0x202181(%rip)
                                                                            # 603760 <num_input_strings>
                                        cmp1
         4015df: 75 5e
757
                                        jne
                                                40163f <phase_defused+0x7b>
758
         4015e1: 4c 8d 44 24 10
                                                0x10(%rsp),%r8
                                        lea
         4015e6: 48 8d 4c 24 0c
759
                                        lea
                                                0xc(%rsp),%rcx
760
        4015eb: 48 8d 54 24 08
                                                                           %d %d %s
                                        lea
                                                0x8(%rsp),%rdx
                                                $0x402619,%esi
761
        4015f0: be 19 26 40 00
                                        mov
                                                $0x603870,%edi
762
        4015f5: bf 70 38 60 00
                                        mov
        4015fa; e8 f1 f5 ff ff
763
                                        calla
                                                400bf0 <__isoc99_sscanf@plt>
        4015ff: 83 f8 03
764
                                                $0x3,%eax
                                        cmp
                                                401635 <phase_defused+0x71> X
        401602: 75 31
765
                                        jne
766
        401604: be 22 26 40 00
                                                $0x402622,%esi
                                        mov
                                                0x10(%rsp),%rdi
        401609: 48 8d 7c 24 10
767
                                        lea
768
        40160e: e8 25 fd ff ff
                                        callq
                                               401338 <strings_not_equal> X
769
        401613: 85 c0
                                        test
                                                %eax,%eax
770
        401615: 75 1e
                                                401635 <phase_defused+0x71> X
                                        ine
771
        401617: bf f8 24 40 00
                                                $0x4024f8, %edi
                                        mov
772
        40161c: e8 ef f4 ff ff
                                        callo
                                               400b10 <puts@plt>
773
        401621: bf 20 25 40 00
                                                $0x402520,%edi
                                        mov
774
        401626: e8 e5 f4 ff ff
                                        callq
                                               400b10 <puts@plt>
775
         <u>40162b: b8</u> 00 00 00 00
                                        mov
                                                $0x0,%eax
776
        401630: e8 0d fc ff ff
                                        callq
                                                401242 <secret_phase
777
        401635: bf 58 25 40 00
                                        mov
                                                $0x402558,%edi
778
        40163a: e8 d1 f4 ff ff
                                        callq
                                               400b10 <puts@plt>
779
        40163f: 48 8b 44 24 68
                                               0x68(%rsp),%rax
                                        mov
780
        401644: 64 48 33 04 25 28 00
                                               %fs:0x28,%rax
                                        xor
        40164b: 00 00
781
782
        40164d: 74 05
                                        jе
                                               401654 <phase defused+0x90>
783
        40164f: e8 dc f4 ff ff
                                               400b30 <__stack_chk_fail@plt>
                                        callq
        401654: 48 83 c4 78
784
                                        add
                                               $0x78,%rsp
785
        401658: c3
                                        retq
786
        401659: 90
                                        nop
        40165a: 90
787
                                        nop
788
        40165b: 90
                                        nop
789
        40165c: 90
                                        non
790
        40165d: 90
                                        nop
791
        40165e: 90
                                        nop
792
        40165f: 90
                                        nop
793
794
      0000000000401660 <sigalrm_handler>:
795
        401660: 48 83 ec 08
                                        sub
                                               $0x8,%rsp
796
        401664: b9 00 00 00 00
                                        mov
                                               $0x0,%ecx
797
        401669: ba 78 26 40 00
                                        mov
                                               $0x402678, %edx
798
        40166e: be 01 00 00 00
                                        mov
                                               $0x1,%esi
799
        401673: 48 8b 3d d6 20 20 00
                                               0x2020d6(%rip),%rdi
                                        mov
                                                                            # 603750
      <stderr@@GLIBC_2.2.5>
800
        40167a: b8 00 00 00 00
                                        mov
                                               $0x0,%eax
801
        40167f: e8 bc f5 ff ff
                                        callq
                                               400c40 <__fprintf_chk@plt>
802
        401684; bf 01 00 00 00
                                        mov
                                               $0x1,%edi
803
        401689: e8 92 f5 ff ff
                                        callq
                                               400c20 <exit@plt>
804
805
      00000000040168e <rio_readlineb>:
806
        40168e: 41 57
                                        push
                                               %r15
807
        401690: 41 56
                                        push
                                               %r14
808
        401692: 41 55
                                               %r13
                                        push
809
        401694: 41 54
                                        push
                                               %r12
810
        401696: 55
                                        push
                                               %rbp
811
        401697: 53
                                               %rbx
                                        push
```

```
812
         401698: 48 83 ec 38
                                         sub
                                                $0x38,%rsp
813
         40169c: 49 89 f6
                                        mov
                                                %rsi,%r14
814
         40169f: 48 89 54 24 18
                                        mov
                                                %rdx,0x18(%rsp)
815
         4016a4: 48 83 fa 01
                                                $0x1, %rdx
                                        Cmp
816
        4016a8: 0f 86 c9 00 00 00
                                        jbe
                                                401777 <rio_readlineb+0xe9>
817
        4016ae: 48 89 fb
                                                %rdi,%rbx
                                        mov
818
         4016b1: 41 bd 01 00 00 00
                                        mov
                                                $0x1,%r13d
819
        4016b7: 4c 8d 67 10
                                                0x10(%rdi),%r12
                                        lea
820
        4016bb: eb 30
                                                4016ed <rio_readlineb+0x5f>
                                        jmp
        4016bd: ba 00 20 00 00
821
                                        mov
                                                $0x2000,%edx
822
        4016c2: 4c 89 e6
                                                %r12,%rsi
                                        mov
        4016c5: 8b 3b
                                                (%rbx),%edi
823
                                        mov
824
        4016c7: e8 94 f4 ff ff
                                                400b60 <read@plt>
                                        calla
825
        4016cc: 89 43 04
                                        mov
                                                %eax, 0x4(%rbx)
826
        4016cf: 85 c0
                                        test
                                                %eax,%eax
827
        4016d1: 79 12
                                                4016e5 <rio_readlineb+0x57>
                                        ins
828
        4016d3: e8 18 f4 ff ff
                                        callq
                                               400af0 <__errno_location@plt>
829
        4016d8: 83 38 04
                                                $0x4,(%rax)
                                        cmpl
        4016db: 74 10
830
                                        je
                                                4016ed <rio_readlineb+0x5f>
831
        4016dd: 0f 1f 00
                                        nop1
                                                (%rax)
832
        4016e0: e9 a1 00 00 00
                                                401786 <rio_readlineb+0xf8>
                                        jmpq
833
        4016e5: 85 c0
                                                %eax,%eax
                                        test
834
        4016e7: 74 71
                                        jе
                                                40175a <rio_readlineb+0xcc>
835
        4016e9: 4c 89 63 08
                                                %r12,0x8(%rbx)
                                        mov
        4016ed: 8b 6b 04
836
                                        mov
                                                0x4(%rbx),%ebp
837
        4016f0: 85 ed
                                        test
                                                %ebp,%ebp
838
        4016f2: 7e c9
                                        jle
                                                4016bd <rio_readlineb+0x2f>
839
        4016f4: 85 ed
                                        test
                                                %ebp,%ebp
840
        4016f6: 41 0f 95 c7
                                        setne %r15b
        4016fa: 41 0f b6 c7
841
                                        movzbl %r15b,%eax
842
        4016fe: 89 44 24 0c
                                                %eax.0xc(%rsp)
                                        mov
        401702: 45 Of b6 ff
843
                                        movzbl %r15b,%r15d
844
        401706: 48 8b 4b 08
                                        mov
                                                0x8(%rbx),%rcx
845
        40170a: 48 89 ce
                                                %rcx,%rsi
                                        mov
        40170d: b9 01 00 00 00
846
                                        mov
                                                $0x1,%ecx
847
        401712: 4c 89 fa
                                        mov
                                                %r15,%rdx
848
        401715: 48 89 74 24 10
                                                %rsi,0x10(%rsp)
                                        mov
849
        40171a: 48 8d 7c 24 2f
                                        lea
                                                0x2f(%rsp),%rdi
        40171f: e8 9c f4 ff ff
850
                                        callq
                                               400bc0 <__memcpy_chk@plt>
        401724: 4c 03 7c 24 10
851
                                        add
                                                0x10(%rsp),%r15
852
        401729: 4c 89 7b 08
                                        mov
                                                %r15,0x8(%rbx)
853
        40172d: 8b 44 24 0c
                                                0xc(%rsp),%eax
                                        mov
        401731: 29 c5
854
                                               %eax,%ebp
                                        sub
855
        401733: 89 6b 04
                                               %ebp,0x4(%rbx)
                                        mov
        401736: 83 f8 01
856
                                        cmp
                                                $0x1,%eax
857
        401739: 75 13
                                        ine
                                               40174e <rio_readlineb+0xc0>
858
        40173b: 49 83 c6 01
                                        add
                                                $0x1,%r14
859
        40173f: 0f b6 44 24 2f
                                        movzbl 0x2f(%rsp),%eax
        401744: 41 88 46 ff
860
                                               %al,-0x1(%r14)
                                        mov
        401748: 3c 0a
861
                                               $0xa,%al
                                        cmp
        40174a: 75 18
862
                                               401764 <rio_readlineb+0xd6>
                                        ine
        40174c: eb 2f
863
                                               40177d <rio_readlineb+0xef>
                                        jmp
        40174e: 83 7c 24 0c 00
864
                                        cmpl
                                               $0x0,0xc(%rsp)
865
        401753: 75 3a
                                        jne
                                               40178f <rio_readlineb+0x101>
        401755: 44 89 e8
866
                                        mov
                                               %r13d, %eax
867
        401758: eb 03
                                               40175d <rio_readlineb+0xcf>
                                        imp
868
        40175a: 44 89 e8
                                               %r13d,%eax
                                        mov
        40175d: 83 f8 01
869
                                               $0x1, %eax
                                        cmp
870
        401760: 75 1b
                                        jne
                                               40177d <rio readlineb+0xef>
871
        401762: eb 34
                                               401798 <rio_readlineb+0x10a>
                                        imp
872
        401764: 41 83 c5 01
                                        add
                                               $0x1,%r13d
873
        401768: 49 63 c5
                                        movslq %r13d,%rax
874
        40176b: 48 3b 44 24 18
                                        CMD
                                               0x18(%rsp),%rax
```

```
40177d <rio_readlineb+0xef>
                                      jae
       401770: 73 0b
875
                                      jmpq 4016ed <rio_readlineb+0x5f>
        401772: e9 76 ff ff ff
876
                                              $0x1,%r13d
                                      mov
        401777: 41 bd 01 00 00 00
877
                                             $0x0,(%r14)
                                      movb
        40177d: 41 c6 06 00
878
                                       movslq %r13d,%rax
        401781: 49 63 c5
879
                                             40179d <rio_readlineb+0x10f>
                                       jmp
        401784: eb 17
880
                                              $0xffffffffffffff,%rax
        401786: 48 c7 c0 ff ff ff ff
                                      mov
881
                                              40179d <rio_readlineb+0x10f>
                                       jmp
        40178d: eb 0e
882
                                              $0xffffffffffffff,%rax
        40178f: 48 c7 c0 ff ff ff mov
883
                                             40179d <rio_readlineb+0x10f>
        401796: eb 05
                                       jmp
884
                                              $0x0,%eax
        401798: b8 00 00 00 00
                                       mov
885
                                              $0x38,%rsp
                                       add
        40179d: 48 83 c4 38
886
                                              %rbx
                                       pop
        4017a1: 5b
887
                                              %rbp
                                       pop
        4017a2: 5d
888
                                              %r12
                                       pop
        4017a3: 41 5c
889
                                              %r13
        4017a5: 41 5d
                                       pop
890
                                              %r14
                                       pop
        4017a7: 41 5e
891
                                              %r15
                                       pop
        4017a9: 41 5f
892
        4017ab: c3
                                       retq
893
894
      00000000004017ac <submitr>:
895
                                               %r15
                                       push
        4017ac: 41 57
896
                                       push
                                               %r14
        4017ae: 41 56
 897
                                       push
                                               %r13
         4017b0: 41 55
 898
                                               %r12
                                       push
        4017b2: 41 54
 899
                                       push
                                               %rbp
 900
         4017b4: 55
                                        push
                                               %rbx
         4017b5: 53
 901
                                               $0xa068,%rsp
         4017b6: 48 81 ec 68 a0 00 00 sub
 902
                                        mov
                                               %rdi,%rbp
         4017bd: 48 89 fd
 903
                                               %esi,%r13d
                                        mov
         4017c0: 41 89 f5
 904
                                               %rdx,0x10(%rsp)
         4017c3: 48 89 54 24 10
                                        mov
 905
                                               %rcx,0x18(%rsp)
         4017c8: 48 89 4c 24 18
                                        mov
 906
                                               %r8,%r15
         4017cd: 4d 89 c7
                                        mov
 907
                                               %r9,%rbx
                                        mov
         4017d0: 4c 89 cb
 908
                                               0xa0a0(%rsp),%r14
         4017d3: 4c 8b b4 24 a0 a0 00
                                        mov
 909
         4017da: 00
 910
         4017db: 64 48 8b 04 25 28 00 mov
                                               %fs:0x28,%rax
 911
         4017e2: 00 00
 912
                                               %rax,0xa058(%rsp)
         4017e4: 48 89 84 24 58 a0 00 mov
 913
 914
         4017eb: 00
                                               %eax,%eax
                                        xor
         4017ec: 31 c0
 915
                                               $0x0,0x2c(%rsp)
         4017ee: c7 44 24 2c 00 00 00
                                        movl
 916
         4017f5: 00
 917
                                                $0x0,%edx
         4017f6: ba 00 00 00 00
                                        mov
 918
         4017fb: be 01 00 00 00
                                                $0x1.%esi
                                        mov
 919
         401800: bf 02 00 00 00
                                                $0x2,%edi
                                        mov
 920
                                        callq 400c80 <socket@plt>
         401805: e8 76 f4 ff ff
 921
                                                %eax,%r12d
                                        mov
          40180a: 41 89 c4
  922
                                                %eax,%eax
                                        test
          40180d: 85 c0
  923
                                                401861 <submitr+0xb5>
                                         jns
          40180f: 79 50
  924
          401811: 48 b8 45 72 72 6f 72 movabs $0x43203a726f727245,%rax
  925
          401818: 3a 20 43
  926
                                                %rax, (%r14)
                                         mov
  927
          40181b: 49 89 06
          40181e: 48 b8 6c 69 65 6e 74 movabs $0x6e7520746e65696c,%rax
  928
          401825: 20 75 6e
  929
                                         mov
                                                %rax,0x8(%r14)
          401828: 49 89 46 08
  930
          40182c: 48 b8 61 62 6c 65 20 movabs $0x206f7420656c6261, %rax
  931
          401833: 74 6f 20
  932
                                         mov
                                                %rax,0x10(%r14)
          401836: 49 89 46 10
  933
          40183a: 48 b8 63 72 65 61 74 movabs $0x7320657461657263,%rax
  934
          401841: 65 20 73
  935
                                                %rax,0x18(%r14)
                                         mov
          401844: 49 89 46 18
  936
          401848: 41 c7 46 20 6f 63 6b movl
                                                $0x656b636f,0x20(%r14)
  937
```

```
938
         40184f: 65
         401850: 66 41 c7 46 24 74 00 movw
                                               $0x74,0x24(%r14)
 939
         401857: b8 ff ff ff ff
                                               $0xffffffff, %eax
 940
                                       mov
 941
         40185c: e9 07 06 00 00
                                              401e68 <submitr+0x6bc>
                                        impa
 942
         401861: 48 89 ef
                                        mov
                                               %rbp,%rdi
 943
         401864: e8 37 f3 ff ff
                                        callq
                                              400ba0 <gethostbyname@plt>
944
         401869: 48 85 c0
                                        test
                                               %rax,%rax
         40186c: 75 6b
                                               4018d9 <submitr+0x12d>
 945
                                        ine
 946
         40186e: 48 b8 45 72 72 6f 72 movabs $0x44203a726f727245,%rax
 947
         401875: 3a 20 44
 948
         401878: 49 89 06
                                               %rax,(%r14)
                                       mov
         40187b: 48 b8 4e 53 20 69 73 movabs $0x6e7520736920534e, %rax
 949
 950
         401882: 20 75 6e
 951
         401885: 49 89 46 08
                                       mov
                                               %rax.0x8(%r14)
         401889: 48 b8 61 62 6c 65 20 movabs $0x206f7420656c6261,%rax
 952
 953
         401890: 74 6f 20
 954
         401893: 49 89 46 10
                                        mov
                                               %rax,0x10(%r14)
         401897: 48 b8 72 65 73 6f 6c movabs $0x2065766c6f736572, %rax
 955
 956
         40189e: 76 65 20
 957
         4018a1: 49 89 46 18
                                        mov
                                               %rax,0x18(%r14)
         4018a5: 48 b8 73 65 72 76 65 movabs $0x6120726576726573, %rax
 958
 959
         4018ac: 72 20 61
                                               %rax,0x20(%r14)
 960
         4018af: 49 89 46 20
         4018b3: 41 c7 46 28 64 64 72 mov1
                                               $0x65726464,0x28(%r14)
 961
 962
         4018ba: 65
         4018bb: 66 41 c7 46 2c 73 73
                                               $0x7373,0x2c(%r14)
 963
                                       movw
         4018c2: 41 c6 46 2e 00
                                               $0x0,0x2e(%r14)
964
                                       movb
 965
         4018c7: 44 89 e7
                                        mov
                                               %r12d,%edi
         4018ca: e8 81 f2 ff ff
                                        callq 400b50 <close@plt>
 966
 967
         4018cf: b8 ff ff ff ff
                                               $0xffffffff, %eax
                                        mov
         4018d4: e9 8f 05 00 00
                                               401e68 <submitr+0x6hc>
 968
                                        impq
 969
         4018d9: 48 c7 44 24 30 00 00 movq
                                               $0x0,0x30(%rsp)
 970
         4018e0: 00 00
         4018e2: 48 c7 44 24 38 00 00 movq
 971
                                               $0x0,0x38(%rsp)
         4018e9: 00 00
 972
 973
         4018eb: 66 c7 44 24 30 02 00 movw
                                               $0x2,0x30(%rsp)
 974
         4018f2: 48 63 50 14
                                       movslq 0x14(%rax),%rdx
 975
        4018f6: 48 8b 40 18
                                       mov
                                               0x18(%rax),%rax
 976
         4018fa: 48 8d 7c 24 34
                                       1ea
                                               0x34(%rsp),%rdi
         4018ff: b9 0c 00 00 00
 977
                                       mov
                                               $0xc,%ecx
 978
        401904: 48 8b 30
                                        mov
                                               (%rax),%rsi
 979
         401907: e8 a4 f2 ff ff
                                        callq 400bb0 <__memmove_chk@plt>
 980
         40190c: 66 41 c1 cd 08
                                       ror
                                               $0x8,%r13w
         401911: 66 44 89 6c 24 32
                                               %r13w,0x32(%rsp)
981
                                        mov
982
         401917: ba 10 00 00 00
                                        mov
                                               $0x10,%edx
         40191c: 48 8d 74 24 30
 983
                                       lea
                                               0x30(%rsp),%rsi
 984
         401921: 44 89 e7
                                       mov
                                               %r12d,%edi
        401924: e8 07 f3 ff ff
 985
                                        callq 400c30 <connect@plt>
 986
        401929: 85 c0
                                        test
                                               %eax,%eax
 987
         40192b: 79 5d
                                        ins
                                               40198a <submitr+0x1de>
 988
         40192d: 48 b8 45 72 72 6f 72 movabs $0x55203a726f727245,%rax
 989
         401934: 3a 20 55
 990
         401937: 49 89 06
                                               %rax,(%r14)
                                       mov
991
         40193a: 48 b8 6e 61 62 6c 65 movabs $0x6f7420656c62616e, %rax
992
         401941: 20 74 6f
993
         401944: 49 89 46 08
                                       mov
                                               %rax,0x8(%r14)
994
        401948: 48 b8 20 63 6f 6e 6e movabs $0x7463656e6e6f6320,%rax
        40194f: 65 63 74
 995
 996
         401952: 49 89 46 10
                                       mov
                                               %rax,0x10(%r14)
997
        401956: 48 b8 20 74 6f 20 74 movabs $0x20656874206f7420,%rax
998
        40195d: 68 65 20
999
        401960: 49 89 46 18
                                               %rax,0x18(%r14)
                                       mov
1000
        401964: 41 c7 46 20 73 65 72 movl
                                               $0x76726573,0x20(%r14)
```

```
40196b: 76
1001
                                               $0x7265,0x24(%r14)
         40196c: 66 41 c7 46 24 65 72 movw
1002
                                               $0x0,0x26(%r14)
         401973: 41 c6 46 26 00
                                        movb
1003
                                        mov
                                               %r12d,%edi
         401978: 44 89 e7
1004
                                        callq 400b50 <close@plt>
         40197b: e8 d0 f1 ff ff
1005
                                               $0xffffffff, %eax
         401980: b8 ff ff ff ff
                                        mov
1006
                                               401e68 <submitr+0x6bc>
         401985: e9 de 04 00 00
                                        impa
1007
         40198a: 48 c7 c2 ff ff ff
                                               $0xfffffffffffffff,%rdx
                                        mov
1008
                                               %rbx,%rdi
                                        mov
         401991: 48 89 df
1009
                                               $0x0,%eax
         401994: b8 00 00 00 00
                                        mov
1010
         401999: 48 89 d1
                                               %rdx,%rcx
                                        mov
1011
                                        repnz scas %es:(%rdi),%al
         40199c: f2 ae
1012
                                               %rcx
         40199e: 48 f7 d1
                                        not
1013
                                               %rcx,%rsi
                                        mov
         4019a1: 48 89 ce
1014
                                                0x10(%rsp), %rdi
                                        mov
         4019a4: 48 8b 7c 24 10
1015
                                                %rdx.%rcx
                                        mov
1016
         4019a9: 48 89 d1
                                        repnz scas %es:(%rdi),%al
         4019ac: f2 ae
1017
                                               %rcx,%r8
         4019ae: 49 89 c8
                                        mov
1018
                                                0x18(%rsp),%rdi
                                        mov
1019
         4019b1: 48 8b 7c 24 18
                                                %rdx,%rcx
         4019b6: 48 89 d1
                                         mov
1020
                                        repnz scas %es:(%rdi),%al
         4019b9: f2 ae
1021
                                                %rcx
                                        not
         4019bb: 48 f7 d1
1022
                                                %rcx,%r9
         4019be: 49 89 c9
                                         mov
1023
                                                %r15,%rdi
         4019c1: 4c 89 ff
                                         mov
1024
                                                %rdx,%rcx
          4019c4: 48 89 d1
                                         mov
1025
                                         repnz scas %es:(%rdi),%al
          4019c7: f2 ae
1026
          4019c9: 4d 29 c1
                                         sub
                                                %r8,%r9
1027
                                                %rcx,%r9
          4019cc: 49 29 c9
                                         sub
1028
                                                -0x3(%rsi,%rsi,2),%rax
          4019cf: 48 8d 44 76 fd
                                         lea
1029
                                         1ea
                                                0x7b(%r9,%rax,1),%rax
          4019d4: 49 8d 44 01 7b
1030
                                                $0x2000,%rax
          4019d9: 48 3d 00 20 00 00
                                         CMD
 1031
                                                401a54 <submitr+0x2a8>
                                         ibe
 1032
          4019df: 76 73
          4019e1: 48 b8 45 72 72 6f 72 movabs $0x52203a726f727245,%rax
 1033
          4019e8: 3a 20 52
 1034
                                                %rax,(%r14)
                                         mov
 1035
          4019eb: 49 89 06
          4019ee: 48 b8 65 73 75 6c 74 movabs $0x747320746c757365,%rax
 1036
          4019f5: 20 73 74
 1037
                                                %rax,0x8(%r14)
          4019f8: 49 89 46 08
                                         mov
 1038
          4019fc: 48 b8 72 69 6e 67 20 movabs $0x6f6f7420676e6972, %rax
 1039
          401a03: 74 6f 6f
 1040
                                                %rax,0x10(%r14)
          401a06: 49 89 46 10
                                         mov
 1041
          401a0a: 48 b8 20 6c 61 72 67 movabs $0x202e656772616c20,%rax
 1042
          401a11: 65 2e 20
 1043
                                                %rax,0x18(%r14)
          401a14: 49 89 46 18
                                         mov
 1044
          401a18: 48 b8 49 6e 63 72 65 movabs $0x6573616572636e49, %rax
 1045
 1046
          401a1f: 61 73 65
                                                 %rax,0x20(%r14)
          401a22: 49 89 46 20
                                         mov
 1047
          401a26: 48 b8 20 53 55 42 4d movabs $0x5254494d42555320,%rax
 1048
          401a2d: 49 54 52
 1049
                                                 %rax,0x28(%r14)
          401a30: 49 89 46 28
 1050
          401a34: 48 b8 5f 4d 41 58 42 movabs $0x46554258414d5f,%rax
 1051
          401a3b: 55 46 00
 1052
                                                 %rax,0x30(%r14)
          401a3e: 49 89 46 30
                                         mov
 1053
                                                 %r12d,%edi
                                         mov
 1054
          401a42: 44 89 e7
                                                400b50 <close@plt>
 1055
          401a45: e8 06 f1 ff ff
                                          callq
                                                 $0xfffffffff,%eax
          401a4a: b8 ff ff ff ff
                                          mov
 1056
          401a4f: e9 14 04 00 00
                                                 401e68 <submitr+0x6bc>
                                          impq
 1057
                                                 0x2040(%rsp),%rdx
          401a54: 48 8d 94 24 40 20 00 lea
 1058
 1059
          401a5b: 00
                                                 $0x400,%ecx
          401a5c: b9 00 04 00 00
                                          mov
 1060
          401a61: b8 00 00 00 00
                                          mov
                                                 $0x0, %eax
 1061
                                                 %rdx,%rdi
          401a66: 48 89 d7
                                          mov
 1062
                                          rep stos %rax, %es:(%rdi)
          401a69: f3 48 ab
 1063
```

```
1064
         401a6c: 48 89 df
                                                 %rbx,%rdi
                                         mov
1065
         401a6f: 48 c7 c1 ff ff ff
                                                 $0xffffffffffffffff,%rcx
                                         mov
1066
         401a76: f2 ae
                                         repnz scas %es:(%rdi),%al
1067
         401a78: 48 f7 d1
                                                 %rcx
                                         not
1068
         401a7b: 48 83 e9 01
                                         sub
                                                 $0x1,%rcx
1069
          401a7f: 85 c9
                                         test
                                                %ecx.%ecx
                                                401e84 <submitr+0x6d8>
1070
          401a81: 0f 84 fd 03 00 00
                                         je
         401a87: 83 e9 01
1071
                                         sub
                                                 $0x1,%ecx
1072
         401a8a: 4c 8d 6c 0b 01
                                                 0x1(%rbx,%rcx,1),%r13
                                         lea
         401a8f: 48 89 d5
1073
                                         mov
                                                %rdx,%rbp
1074
         401a92: 44 Of b6 03
                                         movzbl (%rbx),%r8d
         401a96: 41 80 f8 2a
1075
                                         cmp
                                                 $0x2a,%r8b
         401a9a: 74 23
                                                401abf <submitr+0x313>
1076
                                         je
         401a9c: 41 8d 40 d3
1077
                                         lea
                                                 -0x2d(%r8),%eax
1078
         401aa0: 3c 01
                                                $0x1,%al
                                         cmp
1079
         401aa2: 76 1b
                                         jbe
                                                401abf <submitr+0x313>
1080
         401aa4: 41 80 f8 5f
                                                $0x5f,%r8b
                                         cmp
         401aa8: 74 15
1081
                                         jе
                                                401abf <submitr+0x313>
1082
         401aaa: 41 8d 40 d0
                                         lea
                                                 -0x30(%r8),%eax
1083
         401aae: 3c 09
                                                $0x9,%a1
                                         cmp
1084
         401ab0: 76 0d
                                                401abf <submitr+0x313>
                                         ibe
1085
         401ab2: 44 89 c0
                                                %r8d, %eax
                                         mov
1086
         401ab5: 83 e0 df
                                         and
                                                $0xffffffdf, %eax
1087
         401ab8: 83 e8 41
                                                $0x41,%eax
                                         sub
1088
         401abb: 3c 19
                                         cmp
                                                $0x19,%al
         401abd: 77 0a
                                                401ac9 <submitr+0x31d>
1089
                                         ja
1090
         401abf: 48 8d 45 01
                                         1ea
                                                0x1(%rbp),%rax
1091
         401ac3: 44 88 45 00
                                         mov
                                                %r8b,0x0(%rbp)
1092
         401ac7: eb 6c
                                                401b35 <submitr+0x389>
                                         jmp
1093
         401ac9: 41 80 f8 20
                                                $0x20,%r8b
                                         cmp
1094
         401acd: 75 0a
                                                401ad9 <submitr+0x32d>
                                         ine
1095
         401acf: 48 8d 45 01
                                         lea
                                                0x1(%rbp),%rax
1096
         401ad3: c6 45 00 2b
                                         movb
                                                $0x2b,0x0(%rbp)
1097
         401ad7: eb 5c
                                                401b35 <submitr+0x389>
                                         jmp
1098
         401ad9: 41 8d 40 e0
                                         lea
                                                 -0x20(%r8),%eax
1099
         401add: 3c 5f
                                                $0x5f,%al
                                         cmp
1100
         401adf: 76 0a
                                         jbe
                                                401aeb <submitr+0x33f>
         401ae1: 41 80 f8 09
1101
                                         cmp
                                                $0x9,%r8b
1102
         401ae5: 0f 85 02 04 00 00
                                                401eed <submitr+0x741>
                                         jne
1103
         401aeb: 45 0f b6 c0
                                         movzbl %r8b,%r8d
1104
         401aef: b9 48 27 40 00
                                         mov
                                                $0x402748,%ecx
1105
         401af4: ba 08 00 00 00
                                                $0x8,%edx
                                         mov
1106
         401af9: be 01 00 00 00
                                                $0x1,%esi
                                         mov
1107
         401afe: 48 8d bc 24 40 80 00
                                                0x8040(%rsp),%rdi
                                        lea
         401b05: 00
1108
         401b06: b8 00 00 00 00
1109
                                         mov
                                                $0x0,%eax
1110
         401b0b: e8 60 f1 ff ff
                                         callq 400c70 <__sprintf_chk@plt>
1111
         401b10: 0f b6 84 24 40 80 00
                                        movzbl 0x8040(%rsp),%eax
1112
         401b17: 00
1113
         401b18: 88 45 00
                                                %al,0x0(%rbp)
                                         mov
         401b1b: 0f b6 84 24 41 80 00
1114
                                        movzbl 0x8041(%rsp), %eax
1115
         401b22: 00
1116
         401b23: 88 45 01
                                         mov
                                                %al,0x1(%rbp)
1117
         401b26: 48 8d 45 03
                                         lea
                                                0x3(%rbp),%rax
1118
         401b2a: 0f b6 94 24 42 80 00
                                        movzbl 0x8042(%rsp),%edx
1119
         401b31: 00
1120
         401b32: 88 55 02
                                         mov
                                                %d1,0x2(%rbp)
         401b35: 48 83 c3 01
1121
                                         add
                                                $0x1,%rbx
1122
         401b39: 4c 39 eb
                                         cmp
                                                %r13,%rbx
1123
         401b3c: 0f 84 42 03 00 00
                                                401e84 <submitr+0x6d8>
                                         jе
1124
         401b42: 48 89 c5
                                         mov
                                                %rax,%rbp
1125
         401b45: e9 48 ff ff ff
                                         jmpq
                                                401a92 <submitr+0x2e6>
1126
         401b4a: 48 89 da
                                                %rbx.%rdx
                                         mov
```

```
1127
         401b4d: 48 89 ee
                                               %rbp,%rsi
                                        mov
1128
         401b50: 44 89 e7
                                               %r12d,%edi
                                        mov
1129
         401b53: e8 c8 ef ff ff
                                        callq 400b20 <write@plt>
         401b58: 48 85 c0
1130
                                               %rax,%rax
                                        test
1131
         401b5b: 7f 0f
                                               401b6c <submitr+0x3c0>
                                        ig
         401b5d: e8 8e ef ff ff
1132
                                        callq 400af0 <__errno_location@plt>
1133
         401b62: 83 38 04
                                               $0x4, (%rax)
                                        cmpl
         401b65: 75 12
                                               401b79 <submitr+0x3cd>
1134
                                        jne
         401b67: b8 00 00 00 00
                                               $0x0,%eax
1135
                                        mov
1136
         401b6c: 48 01 c5
                                        add
                                               %rax,%rbp
1137
         401b6f: 48 29 c3
                                        sub
                                               %rax.%rbx
         401b72: 75 d6
1138
                                        jne
                                               401b4a <submitr+0x39e>
1139
         401b74: 4d 85 ed
                                        test
                                               %r13,%r13
1140
         401b77: 79 5f
                                        ins
                                               401bd8 <submitr+0x42c>
1141
         401b79: 48 b8 45 72 72 6f 72 movabs $0x43203a726f727245,%rax
1142
         401b80: 3a 20 43
         401b83: 49 89 06
1143
                                        mov
                                               %rax,(%r14)
         401b86: 48 b8 6c 69 65 6e 74 movabs $0x6e7520746e65696c, %rax
1144
1145
         401b8d: 20 75 6e
1146
         401b90: 49 89 46 08
                                       mov
                                               %rax,0x8(%r14)
         401b94: 48 b8 61 62 6c 65 20 movabs $0x206f7420656c6261, %rax
1147
         401b9b: 74 6f 20
1148
1149
         401b9e: 49 89 46 10
                                       mov
                                               %rax,0x10(%r14)
         401ba2: 48 b8 77 72 69 74 65 movabs $0x6f74206574697277,%rax
1150
1151
         401ba9: 20 74 6f
1152
         401bac: 49 89 46 18
                                        mov
                                               %rax,0x18(%r14)
         401bb0: 48 b8 20 74 68 65 20 movabs $0x7265732065687420,%rax
1153
1154
         401bb7: 73 65 72
                                               %rax,0x20(%r14)
1155
         401bba: 49 89 46 20
                                       mov
         401bbe: 41 c7 46 28 76 65 72 movl
                                              $0x726576,0x28(%r14)
1156
         401bc5: 00
1157
1158
         401bc6: 44 89 e7
                                        mov
                                               %r12d,%edi
1159
         401bc9: e8 82 ef ff ff
                                        callq 400b50 <close@plt>
         401bce: b8 ff ff ff ff
1160
                                               $0xffffffff, %eax
                                        mov
1161
         401bd3: e9 90 02 00 00
                                        jmpq
                                               401e68 <submitr+0x6bc>
1162
         401bd8: 44 89 a4 24 40 80 00 mov
                                               %r12d,0x8040(%rsp)
         401bdf: 00
1163
1164
         401be0: c7 84 24 44 80 00 00 movl
                                               $0x0,0x8044(%rsp)
         401be7: 00 00 00 00
1165
1166
         401beb: 48 8d 84 24 50 80 00 lea
                                               0x8050(%rsp),%rax
1167
         401hf2: 00
1168
         401bf3: 48 89 84 24 48 80 00 mov
                                               %rax,0x8048(%rsp)
1169
         401bfa: 00
1170
         401bfb: ba 00 20 00 00
                                               $0x2000,%edx
                                       mov
1171
         401c00: 48 8d 74 24 40
                                       lea
                                               0x40(%rsp),%rsi
1172
         401c05: 48 8d bc 24 40 80 00 lea
                                               0x8040(%rsp),%rdi
1173
         401c0c: 00
1174
         401c0d: e8 7c fa ff ff
                                       callq 40168e <rio readlineb>
         401c12: 48 85 c0
1175
                                       test
                                               %rax,%rax
1176
         401c15: 7f 74
                                               401c8b <submitr+0x4df>
                                        jg
1177
         401c17: 48 b8 45 72 72 6f 72
                                       movabs $0x43203a726f727245,%rax
1178
         401c1e: 3a 20 43
         401c21: 49 89 06
1179
                                       mov
                                               %rax,(%r14)
1180
         401c24: 48 b8 6c 69 65 6e 74 movabs $0x6e7520746e65696c, %rax
1181
         401c2b: 20 75 6e
1182
         401c2e: 49 89 46 08
                                               %rax,0x8(%r14)
                                       mov
         401c32: 48 b8 61 62 6c 65 20 movabs $0x206f7420656c6261,%rax
1183
1184
         401c39: 74 6f 20
1185
         401c3c: 49 89 46 10
                                       mov
                                               %rax.0x10(%r14)
1186
         401c40: 48 b8 72 65 61 64 20 movabs $0x7269662064616572, %rax
1187
         401c47: 66 69 72
1188
         401c4a: 49 89 46 18
                                       mov
                                               %rax,0x18(%r14)
1189
        401c4e: 48 b8 73 74 20 68 65 movabs $0x6564616568207473, %rax
```

```
401c55: 61 64 65
1190
                                               %rax,0x20(%r14)
         401c58: 49 89 46 20
                                       mov
1191
         401c5c: 48 b8 72 20 66 72 6f movabs $0x73206d6f72662072, %rax
1192
         401c63: 6d 20 73
1193
                                       mov
                                               %rax,0x28(%r14)
         401c66: 49 89 46 28
1194
         401c6a: 41 c7 46 30 65 72 76 movl
                                              $0x65767265,0x30(%r14)
1195
         401c71: 65
1196
         401c72: 66 41 c7 46 34 72 00 movw
                                               $0x72,0x34(%r14)
1197
                                               %r12d,%edi
1198
         401c79: 44 89 e7
                                       mov
         401c7c: e8 cf ee ff ff
                                       callq 400b50 <close@plt>
1199
                                               $0xffffffff,%eax
         401c81: b8 ff ff ff ff
                                       mov
1200
                                               401e68 <submitr+0x6bc>
         401c86: e9 dd 01 00 00
                                        jmpq
1201
         401c8b: 4c 8d 84 24 40 60 00
                                               0x6040(%rsp),%r8
                                       lea
1202
1203
         401c92: 00
                                               0x2c(%rsp),%rcx
         401c93: 48 8d 4c 24 2c
1204
         401c98: 48 8d 94 24 40 40 00 lea
                                               0x4040(%rsp),%rdx
1205
1206
         401c9f: 00
         401ca0: be 4f 27 40 00
                                        mov
                                               $0x40274f,%esi
1207
         401ca5: 48 8d 7c 24 40
                                        lea
                                               0x40(%rsp),%rdi
1208
         401caa: b8 00 00 00 00
                                               $0x0, %eax
                                        mov
1209
                                              400bf0 <__isoc99_sscanf@plt>
         401caf: e8 3c ef ff ff
                                        callq
1210
                                               0x2c(%rsp),%r8d
         401cb4: 44 8b 44 24 2c
                                        mov
1211
         401cb9: 41 81 f8 c8 00 00 00
                                       cmp
                                               $0xc8,%r8d
1212
                                               401d84 <submitr+0x5d8>
         401cc0: 0f 84 be 00 00 00
                                        jе
1213
                                               0x6040(%rsp),%r9
         401cc6: 4c 8d 8c 24 40 60 00 lea
1214
1215
         401ccd: 00
                                               $0x4026a0,%ecx
         401cce: b9 a0 26 40 00
                                        mov
1216
         401cd3: 48 c7 c2 ff ff ff mov
                                               $0xffffffffffffff,%rdx
1217
         401cda: be 01 00 00 00
                                               $0x1,%esi
                                        mov
1218
                                               %r14,%rdi
1219
         401cdf: 4c 89 f7
                                        mov
1220
         401ce2: b8 00 00 00 00
                                        mov
                                               $0x0,%eax
         401ce7: e8 84 ef ff ff
                                        callq 400c70 <__sprintf_chk@plt>
1221
                                               %r12d,%edi
         401cec: 44 89 e7
                                        mov
1222
                                        callq 400b50 <close@plt>
         401cef: e8 5c ee ff ff
1223
         401cf4: b8 ff ff ff ff
                                        mov
                                               $0xffffffff,%eax
1224
         401cf9: e9 6a 01 00 00
                                               401e68 <submitr+0x6bc>
                                        jmpq
1225
                                               $0x2000,%edx
         401cfe: ba 00 20 00 00
                                        mov
1226
                                               0x40(%rsp),%rsi
         401d03: 48 8d 74 24 40
1227
         401d08: 48 8d bc 24 40 80 00
                                               0x8040(%rsp),%rdi
                                        lea
1228
1229
         401d0f: 00
         401d10: e8 79 f9 ff ff
                                        callq 40168e <rio_readlineb>
1230
                                        test
                                               %rax,%rax
         401d15: 48 85 c0
1231
                                               401d84 <submitr+0x5d8>
1232
         401d18: 7f 6a
                                        jg
1233
         401d1a: 48 b8 45 72 72 6f 72 movabs $0x43203a726f727245,%rax
         401d21: 3a 20 43
1234
                                        mov
                                               %rax,(%r14)
         401d24: 49 89 06
1235
         401d27: 48 b8 6c 69 65 6e 74 movabs $0x6e7520746e65696c, %rax
1236
1237
         401d2e: 20 75 6e
                                        mov
                                               %rax,0x8(%r14)
1238
          401d31: 49 89 46 08
          401d35: 48 b8 61 62 6c 65 20 movabs $0x206f7420656c6261,%rax
 1239
         401d3c: 74 6f 20
1240
          401d3f: 49 89 46 10
                                        mov
                                               %rax,0x10(%r14)
 1241
          401d43: 48 b8 72 65 61 64 20 movabs $0x6165682064616572, %rax
 1242
1243
          401d4a: 68 65 61
                                               %rax,0x18(%r14)
          401d4d: 49 89 46 18
                                        mov
 1244
          401d51: 48 b8 64 65 72 73 20 movabs $0x6f72662073726564,%rax
 1245
          401d58: 66 72 6f
 1246
          401d5b: 49 89 46 20
                                        mov
                                                %rax,0x20(%r14)
 1247
          401d5f: 48 b8 6d 20 73 65 72 movabs $0x726576726573206d,%rax
 1248
          401d66: 76 65 72
 1249
                                                %rax,0x28(%r14)
          401d69: 49 89 46 28
                                        mov
 1250
                                                $0x0,0x30(%r14)
 1251
          401d6d: 41 c6 46 30 00
                                        movb
                                                %r12d,%edi
 1252
          401d72: 44 89 e7
                                         mov
```

```
1253
         401d75: e8 d6 ed ff ff
                                       callq 400b50 <close@plt>
1254
         401d7a: b8 ff ff ff ff
                                       mov
                                              $0xffffffff, %eax
1255
         401d7f: e9 e4 00 00 00
                                              401e68 <submitr+0x6bc>
                                       impa
         401d84: 80 7c 24 40 0d
                                              $0xd,0x40(%rsp)
1256
                                       cmpb.
1257
         401d89: 0f 85 6f ff ff ff
                                       jne
                                              401cfe <submitr+0x552>
1258
         401d8f: 80 7c 24 41 0a
                                       cmpb
                                              $0xa,0x41(%rsp)
         401d94: 0f 85 64 ff ff ff
                                              401cfe <submitr+0x552>
1259
                                       ine
1260
         401d9a: 80 7c 24 42 00
                                       cmpb -
                                              $0x0,0x42(%rsp)
         401d9f: 0f 85 59 ff ff ff
1261
                                       jne
                                              401cfe <submitr+0x552>
         401da5: ba 00 20 00 00
                                       mov
                                              $0x2000,%edx
1262
         401daa: 48 8d 74 24 40
                                       lea
                                              0x40(%rsp),%rsi
1263
         401daf: 48 8d bc 24 40 80 00 lea
                                              0x8040(%rsp),%rdi
1264
1265
         401db6: 00
         401db7: e8 d2 f8 ff ff
                                       callq 40168e <rio_readlineb>
1266
         401dbc: 48 85 c0
                                       test
                                              %rax,%rax
1267
1268
         401dbf: 7f 70
                                       jg
                                              401e31 <submitr+0x685>
        401dc1: 48 b8 45 72 72 6f 72 movabs $0x43203a726f727245,%rax
1269
         401dc8: 3a 20 43
1270
1271
         401dcb: 49 89 06
                                       mov
                                              %rax,(%r14)
         401dce: 48 b8 6c 69 65 6e 74 movabs $0x6e7520746e65696c, %rax
1272
         401dd5: 20 75 6e
1273
         401dd8: 49 89 46 08
                                              %rax,0x8(%r14)
1274
                                       mov
1275
         401ddc: 48 b8 61 62 6c 65 20 movabs $0x206f7420656c6261, %rax
         401de3: 74 6f 20
1276
                                       mov
                                              %rax,0x10(%r14)
1277
         401de6: 49 89 46 10
1278
         401dea: 48 b8 72 65 61 64 20 movabs $0x6174732064616572, %rax
1279
         401df1: 73 74 61
1280
         401df4: 49 89 46 18
                                       mov
                                              %rax,0x18(%r14)
1281
         401df8: 48 b8 74 75 73 20 6d movabs $0x7373656d20737574, %rax
         401dff: 65 73 73
1282
1283
         401e02: 49 89 46 20
                                       mov
                                              %rax,0x20(%r14)
1284
         401e06: 48 b8 61 67 65 20 66 movabs $0x6d6f726620656761, %rax
1285
         401e0d: 72 6f 6d
         401e10: 49 89 46 28
                                              %rax,0x28(%r14)
1286
                                       mov
1287
         401e14: 48 b8 20 73 65 72 76 movabs $0x72657672657320,%rax
         401e1b: 65 72 00
1288
1289
         401e1e: 49 89 46 30
                                              %rax,0x30(%r14)
                                       mov
1290
         401e22: 44 89 e7
                                       mov
                                              %r12d,%edi
1291
         401e25: e8 26 ed ff ff
                                       callq 400b50 <close@plt>
         401e2a: b8 ff ff ff ff
1292
                                              $0xffffffff, %eax
                                       mov
1293
         401e2f: eb 37
                                       jmp
                                              401e68 <submitr+0x6bc>
         401e31: 48 8d 74 24 40
1294
                                       lea
                                              0x40(%rsp),%rsi
         401e36: 4c 89 f7
                                              %r14,%rdi
1295
                                       mov
1296
         401e39: e8 c2 ec ff ff
                                       callq 400b00 <strcpy@plt>
1297
         401e3e: 44 89 e7
                                       mov
                                              %r12d,%edi
1298
         401e41: e8 0a ed ff ff
                                       callq 400b50 <close@plt>
         401e46: 41 0f b6 06
1299
                                       movzbl (%r14),%eax
1300
         401e4a: 83 e8 4f
                                       sub
                                              $0x4f,%eax
1301
         401e4d: 75 Of
                                       jne
                                              401e5e <submitr+0x6b2>
         401e4f: 41 0f b6 46 01
1302
                                       movzbl 0x1(%r14),%eax
1303
         401e54: 83 e8 4b
                                       sub
                                              $0x4b, %eax
1304
         401e57: 75 05
                                       jne
                                              401e5e <submitr+0x6b2>
         401e59: 41 Of b6 46 02
1305
                                       movzbl 0x2(%r14),%eax
1306
         401e5e: 85 c0
                                       test
                                              %eax,%eax
1307
         401e60: Of 95 c0
                                       setne %al
1308
         401e63: 0f b6 c0
                                       movzbl %al,%eax
1309
         401e66: f7 d8
                                       neg
                                              %eax
         401e68: 48 8b 94 24 58 a0 00 mov
1310
                                              0xa058(%rsp),%rdx
1311
         401e6f: 00
1312
         401e70: 64 48 33 14 25 28 00 xor
                                              %fs:0x28,%rdx
1313
         401e77: 00 00
1314
         401e79: 0f 84 00 01 00 00
                                              401f7f <submitr+0x7d3>
                                       ie
1315
        401e7f: e9 f6 00 00 00
                                       jmpq
                                              401f7a <submitr+0x7ce>
```

```
1316
         401e84: 48 8d 84 24 40 20 00 lea
                                                0x2040(%rsp),%rax
         401e8b: 00
1317
1318
         401e8c: 48 89 44 24 08
                                                %rax, 0x8(%rsp)
                                        mov
1319
         401e91: 4c 89 3c 24
                                                %r15,(%rsp)
                                        mov
1320
         401e95: 4c 8h 4c 24 18
                                        mov
                                                0x18(%rsp),%r9
1321
         401e9a: 4c 8b 44 24 10
                                                0x10(%rsp),%r8
                                        mov
1322
         401e9f: b9 d0 26 40 00
                                        mov
                                                $0x4026d0, %ecx
1323
         401ea4: ba 00 20 00 00
                                               $0x2000,%edx
                                        mov
1324
         401ea9: be 01 00 00 00
                                                $0x1,%esi
                                        mov
         401eae: 48 8d 7c 24 40
1325
                                        lea
                                                0x40(%rsp),%rdi
1326
         401eb3: b8 00 00 00 00
                                        mov
                                                $0x0.%eax
         401eb8: e8 b3 ed ff ff
1327
                                        calla
                                               400c70 <__sprintf_chk@plt>
1328
         401ebd: 48 8d 7c 24 40
                                        lea
                                                0x40(%rsp),%rdi
1329
         401ec2: b8 00 00 00 00
                                        mov
                                                $0x0,%eax
1330
         401ec7: 48 c7 c1 ff ff ff mov
                                                $0xffffffffffffffff,%rcx
1331
         401ece: f2 ae
                                        repnz scas %es:(%rdi),%al
1332
         401ed0: 48 f7 d1
                                        not
                                               %rcx
         401ed3: 48 83 e9 01
1333
                                        sub
                                               $0x1, %rcx
         401ed7: 49 89 cd
1334
                                        mov
                                               %rcx,%r13
1335
         401eda: 0f 84 f8 fc ff ff
                                        je
                                               401bd8 <submitr+0x42c>
1336
         401ee0: 48 89 cb
                                        mov
                                               %rcx,%rbx
1337
         401ee3: 48 8d 6c 24 40
                                        lea
                                               0x40(%rsp),%rbp
1338
         401ee8: e9 5d fc ff ff
                                        jmpq
                                               401b4a <submitr+0x39e>
         401eed: 48 b8 45 72 72 6f 72 movabs $0x52203a726f727245,%rax
1339
         401ef4: 3a 20 52
1340
1341
         401ef7: 49 89 06
                                        mov
                                               %rax,(%r14)
1342
         401efa: 48 b8 65 73 75 6c 74 movabs $0x747320746c757365,%rax
1343
         401f01: 20 73 74
1344
         401f04: 49 89 46 08
                                               %rax,0x8(%r14)
                                        mov
1345
         401f08: 48 b8 72 69 6e 67 20 movabs $0x6e6f6320676e6972,%rax
1346
         401f0f: 63 6f 6e
         401f12: 49 89 46 10
1347
                                        mov
                                               %rax,0x10(%r14)
1348
         401f16: 48 b8 74 61 69 6e 73 movabs $0x6e6120736e696174,%rax
1349
         401f1d: 20 61 6e
         401f20: 49 89 46 18
1350
                                        mov
                                               %rax,0x18(%r14)
         401f24: 48 b8 20 69 6c 6c 65 movabs $0x6c6167656c6c6920,%rax
1351
1352
         401f2b: 67 61 6c
1353
         401f2e: 49 89 46 20
                                        mov
                                               %rax,0x20(%r14)
1354
         401f32: 48 b8 20 6f 72 20 75 movabs $0x72706e7520726f20,%rax
1355
         401f39: 6e 70 72
1356
         401f3c: 49 89 46 28
                                        mov
                                               %rax,0x28(%r14)
1357
         401f40: 48 b8 69 6e 74 61 62 movabs $0x20656c6261746e69,%rax
1358
         401f47: 6c 65 20
1359
         401f4a: 49 89 46 30
                                        mov
                                               %rax,0x30(%r14)
         401f4e: 48 b8 63 68 61 72 61 movabs $0x6574636172616863,%rax
1360
1361
         401f55: 63 74 65
1362
         401f58: 49 89 46 38
                                        mov
                                               %rax,0x38(%r14)
1363
         401f5c: 66 41 c7 46 40 72 2e movw
                                               $0x2e72,0x40(%r14)
1364
         401f63: 41 c6 46 42 00
                                        movb
                                               $0x0,0x42(%r14)
         401f68: 44 89 e7
1365
                                        mov
                                               %r12d,%edi
1366
         401f6b: e8 e0 eb ff ff
                                               400b50 <close@plt>
                                        calla
1367
         401f70: b8 ff ff ff ff
                                               $0xffffffff, %eax
                                        mov
1368
         401f75: e9 ee fe ff ff
                                        impa
                                               401e68 <submitr+0x6bc>
1369
         401f7a: e8 b1 eb ff ff
                                        callq 400b30 <__stack_chk_fail@plt>
1370
         401f7f: 48 81 c4 68 a0 00 00
                                       add
                                               $0xa068,%rsp
1371
         401f86: 5b
                                               %rbx
                                        pop
1372
         401f87: 5d
                                               %rbp
                                        pop
13.73
         401f88: 41 5c
                                               %r12
                                        pop
1374
         401f8a: 41 5d
                                        pop
                                               %r13
1375
        401f8c: 41 5e
                                               %r14
                                        pop
1376
        401f8e: 41 5f
                                        pop
                                               %r15
1377
        401f90: c3
                                        retq
1378
```

```
0000000000401f91 <init_timeout>:
1379
1380
         401f91: 53
                                         push
                                                %rbx
1381
         401f92: 89 fb
                                         mov
                                                %edi,%ebx
                                                %edi,%edi
         401f94: 85 ff
1382
                                         test
1383
         401f96: 74 1e
                                         jе
                                                401fb6 <init_timeout+0x25>
                                                $0x401660,%esi
1384
         401f98: be 60 16 40 00
                                         mov
         401f9d: bf 0e 00 00 00
                                                $0xe,%edi
1385
                                         mov
                                         callq 400b90 <signal@plt>
1386
         401fa2: e8 e9 eb ff ff
         401fa7: 85 db
                                                %ebx,%ebx
1387
                                         test
         401fa9: bf 00 00 00 00
                                         mov
                                                $0x0,%edi
1388
         401fae: 0f 49 fb
                                         cmovns %ebx,%edi
1389
1390
         401fb1: e8 8a eb ff ff
                                         callq
                                                400b40 <alarm@plt>
         401fb6: 5b
                                         pop
                                                %rbx
1391
         401fb7: c3
                                         retq
1392
1393
1394
       0000000000401fb8 <init_driver>:
                                                %rbp
         401fb8: 55
                                         push
1395
                                                %rbx
1396
         401fb9: 53
                                         push
1397
         401fba: 48 83 ec 28
                                         sub
                                                $0x28,%rsp
         401fbe: 48 89 fd
                                         mov
                                                %rdi,%rbp
1398
         401fc1: 64 48 8b 04 25 28 00
                                                %fs:0x28,%rax
1399
                                         mov
         401fc8: 00 00
1400
                                                %rax,0x18(%rsp)
1401
         401fca: 48 89 44 24 18
                                         mov
         401fcf: 31 c0
                                                %eax,%eax
1402
                                         xor
         401fd1: be 01 00 00 00
                                         mov
                                                $0x1,%esi
1403
                                                $0xd,%edi
1404
         401fd6: bf 0d 00 00 00
                                         mov
         401fdb: e8 b0 eb ff ff
                                                400b90 <signal@plt>
1405
                                         callo
1406
         401fe0: be 01 00 00 00
                                         mov
                                                $0x1,%esi
                                                $0x1d,%edi
1407
         401fe5: bf 1d 00 00 00
                                         mov
                                                400b90 <signal@plt>
         401fea: e8 a1 eb ff ff
1408
                                         callo
         401fef: be 01 00 00 00
                                                $0x1,%esi
1409
                                         mov
1410
         401ff4: bf 1d 00 00 00
                                         mov
                                                $0x1d,%edi
         401ff9: e8 92 eb ff ff
                                         callq
                                                400b90 <signal@plt>
1411
                                                $0x0,%edx
         401ffe: ba 00 00 00 00
1412
                                         mov
1413
         402003: be 01 00 00 00
                                         mov
                                                $0x1,%esi
1414
         402008: bf 02 00 00 00
                                                $0x2,%edi
                                         mov
1415
         40200d: e8 6e ec ff ff
                                                400c80 <socket@plt>
                                         callq
1416
         402012: 89 c3
                                         mov
                                                %eax,%ebx
         402014: 85 c0
1417
                                         test
                                                %eax,%eax
         402016: 79 4f
                                                402067 <init driver+0xaf>
1418
                                         ins
1419
         402018: 48 b8 45 72 72 6f 72 movabs $0x43203a726f727245, %rax
1420
         40201f: 3a 20 43
         402022: 48 89 45 00
                                                %rax,0x0(%rbp)
1421
                                         mov
         402026: 48 b8 6c 69 65 6e 74 movabs $0x6e7520746e65696c, %rax
1422
1423
         40202d: 20 75 6e
1424
         402030: 48 89 45 08
                                         mov
                                                %rax,0x8(%rbp)
         402034: 48 b8 61 62 6c 65 20 movabs $0x206f7420656c6261, %rax
1425
1426
         40203b: 74 6f 20
1427
         40203e: 48 89 45 10
                                         mov
                                                %rax,0x10(%rbp)
1428
         402042: 48 b8 63 72 65 61 74 movabs $0x7320657461657263, %rax
1429
         402049: 65 20 73
                                                %rax,0x18(%rbp)
1430
         40204c: 48 89 45 18
                                         mov
         402050: c7 45 20 6f 63 6b 65
                                                $0x656b636f,0x20(%rbp)
1431
                                         mov1
1432
         402057: 66 c7 45 24 74 00
                                         movw
                                                $0x74,0x24(%rbp)
1433
         40205d: b8 ff ff ff ff
                                         mov
                                                $0xffffffff, %eax
1434
         402062: e9 0a 01 00 00
                                                402171 <init_driver+0x1b9>
                                         jmpq
         402067: bf 60 27 40 00
                                                $0x402760,%edi
1435
                                         mov
1436
         40206c: e8 2f eb ff ff
                                         callq
                                                400ba0 <gethostbyname@plt>
1437
         402071: 48 85 c0
                                         test
                                                %rax,%rax
1438
         402074: 75 68
                                         jne
                                                4020de <init_driver+0x126>
1439
         402076: 48 b8 45 72 72 6f 72
                                         movabs $0x44203a726f727245,%rax
1440
         40207d: 3a 20 44
1441
         402080: 48 89 45 00
                                                %rax,0x0(%rbp)
                                         mov
```

```
1442
         402084: 48 b8 4e 53 20 69 73 movabs $0x6e7520736920534e,%rax
1443
         40208b: 20 75 6e
1444
         40208e: 48 89 45 08
                                         mov
                                                %rax,0x8(%rbp)
1445
         402092: 48 b8 61 62 6c 65 20 movabs $0x206f7420656c6261,%rax
         402099: 74 6f 20
1446
1447
         40209c: 48 89 45 10
                                         mov
                                                %rax,0x10(%rbp)
1448
         4020a0: 48 b8 72 65 73 6f 6c movabs $0x2065766c6f736572, %rax
         4020a7: 76 65 20
1449
1450
         4020aa: 48 89 45 18
                                        mov
                                                %rax,0x18(%rbp)
         4020ae: 48 b8 73 65 72 76 65 movabs $0x6120726576726573,%rax
1451
1452
         4020b5: 72 20 61
1453
         4020b8: 48 89 45 20
                                         mov
                                                %rax,0x20(%rbp)
1454
         4020bc: c7 45 28 64 64 72 65
                                                $0x65726464,0x28(%rbp)
                                        mov1
1455
         4020c3: 66 c7 45 2c 73 73
                                        movw
                                                $0x7373,0x2c(%rbp)
1456
         4020c9: c6 45 2e 00
                                        movb
                                                $0x0,0x2e(%rbp)
1457
         4020cd: 89 df
                                                %ebx,%edi
                                        mov
1458
         4020cf: e8 7c ea ff ff
                                        calla
                                                400b50 <close@plt>
         4020d4: b8 ff ff ff ff
1459
                                                $0xffffffff, %eax
                                        mov
1460
         4020d9: e9 93 00 00 00
                                         jmpq
                                                402171 <init_driver+0x1b9>
1461
         4020de: 48 c7 04 24 00 00 00
                                        movq
                                                $0x0, (%rsp)
         4020e5: 00
1462
         4020e6: 48 c7 44 24 08 00 00
1463
                                        mova
                                                $0x0,0x8(%rsp)
         4020ed: 00 00
1464
1465
         4020ef: 66 c7 04 24 02 00
                                                $0x2,(%rsp)
                                        movw
         4020f5: 48 63 50 14
1466
                                        movslq 0x14(%rax),%rdx
1467
         4020f9: 48 8b 40 18
                                                0x18(%rax),%rax
                                        mov
1468
         4020fd: 48 8d 7c 24 04
                                                0x4(%rsp),%rdi
                                        lea
         402102: b9 0c 00 00 00
1469
                                        mov
                                                $0xc,%ecx
1470
         402107: 48 8b 30
                                                (%rax),%rsi
                                        mov
1471
         40210a: e8 a1 ea ff ff
                                        callq 400bb0 < __memmove_chk@plt>
1472
         40210f: 66 c7 44 24 02 3b 6e
                                                $0x6e3b,0x2(%rsp)
                                        movw
1473
         402116: ba 10 00 00 00
                                        mov
                                                $0x10,%edx
1474
         40211b: 48 89 e6
                                        mov
                                                %rsp,%rsi
1475
         40211e: 89 df
                                                %ebx,%edi
                                        mov
         402120: e8 0b eb ff ff
1476
                                        callq
                                                400c30 <connect@plt>
1477
         402125: 85 c0
                                        test
                                                %eax,%eax
1478
         402127: 79 32
                                        ins
                                                40215b <init_driver+0x1a3>
1479
         402129: 41 b8 60 27 40 00
                                        mov
                                                $0x402760,%r8d
         40212f: b9 20 27 40 00
1480
                                                $0x402720,%ecx
                                        mov
         402134: 48 c7 c2 ff ff ff ff
1481
                                                $0xfffffffffffffff, %rdx
                                        mov
         40213b: be 01 00 00 00
1482
                                        mov
                                                $0x1, %esi
1483
         402140: 48 89 ef
                                        mov
                                                %rbp,%rdi
         402143: b8 00 00 00 00
1484
                                                $0x0,%eax
                                        mov
         402148: e8 23 eb ff ff
1485
                                        calla
                                               400c70 <__sprintf_chk@plt>
         40214d: 89 df
1486
                                        mov
                                                %ebx,%edi
1487
         40214f: e8 fc e9 ff ff
                                        callq
                                               400b50 <close@p1t>
1488
         402154: b8 ff ff ff ff
                                                $0xfffffffff,%eax
                                        mov
         402159: eb 16
1489
                                        jmp
                                                402171 <init_driver+0x1b9>
1490
         40215b: 89 df
                                        mov
                                                %ebx,%edi
1491
         40215d: e8 ee e9 ff ff
                                        callq
                                               400b50 <close@plt>
         402162: 66 c7 45 00 4f 4b
1492
                                        movw
                                                $0x4b4f,0x0(%rbp)
1493
         402168: c6 45 02 00
                                        movb
                                                $0x0,0x2(%rbp)
1494
         40216c: b8 00 00 00 00
                                        mov
                                                $0x0,%eax
1495
         402171: 48 8b 4c 24 18
                                        mov
                                                0x18(%rsp),%rcx
1496
         402176: 64 48 33 0c 25 28 00
                                                %fs:0x28,%rcx
1497
         40217d: 00 00
         40217f: 74 05
1498
                                        jе
                                                402186 <init_driver+0x1ce>
         402181: e8 aa e9 ff ff
1499
                                        callq
                                               400b30 <__stack_chk_fail@plt>
1500
         402186: 48 83 c4 28
                                        add
                                                $0x28,%rsp
1501
         40218a: 5b
                                                %rhx
                                        pop
1502
         40218b: 5d
                                        pop
                                                %rbp
1503
         40218c: c3
                                        retq
1504
```

```
1506
         40218d: 53
                                         push
                                                 %rbx
1507
         40218e: 48 83 ec 10
                                         sub
                                                 $0x10,%rsp
         402192: 48 89 cb
1508
                                                 %rcx,%rbx
                                         mov
1509
         402195: 85 d2
                                         test
                                                 %edx,%edx
         402197: 74 27
                                                 4021c0 <driver_post+0x33>
1510
                                         jе
         402199: 48 89 f2
                                                 %rsi,%rdx
1511
                                         mov
                                                 $0x402778,%esi
         40219c: be 78 27 40 00
1512
                                         mov
         4021a1: bf 01 00 00 00
                                                 $0x1,%edi
1513
                                         mov
1514
         4021a6: b8 00 00 00 00
                                         mov
                                                 $0x0,%eax
         4021ab: e8 50 ea ff ff
                                                 400c00 < printf chk@plt>
1515
                                         calla
                                                 $0x4b4f, (%rbx)
1516
         4021b0: 66 c7 03 4f 4b
                                         movw
1517
         4021b5: c6 43 02 00
                                         movb
                                                 $0x0,0x2(%rbx)
         4021b9: b8 00 00 00 00
                                         mov
                                                 $0x0,%eax
1518
1519
         4021be: eb 3e
                                                 4021fe <driver_post+0x71>
                                         jmp
1520
         4021c0: 48 85 ff
                                         test
                                                 %rdi,%rdi
         4021c3: 74 2b
                                                 4021f0 <driver_post+0x63>
1521
                                         jе
         4021c5: 80 3f 00
1522
                                         cmpb
                                                 $0x0,(%rdi)
1523
         4021c8: 74 26
                                         jе
                                                 4021f0 <driver_post+0x63>
         4021ca: 48 89 0c 24
                                                 %rcx,(%rsp)
1524
                                         mov
         4021ce: 49 89 f1
                                                 %rsi,%r9
1525
                                         mov
         4021d1: 41 b8 ec 22 40 00
                                                 $0x4022ec, %r8d
1526
                                         mov
1527
         4021d7: 48 89 f9
                                         mov
                                                 %rdi,%rcx
         4021da: ba 8f 27 40 00
                                                 $0x40278f, %edx
1528
                                         mov
1529
         4021df; be 6e 3b 00 00
                                         mov
                                                 $0x3b6e,%esi
         4021e4: bf 60 27 40 00
                                                 $0x402760, %edi
1530
                                         mov
         4021e9: e8 be f5 ff ff
                                                 4017ac <submitr>
                                         calla
1531
1532
         4021ee: eb 0e
                                         jmp
                                                 4021fe <driver_post+0x71>
         4021f0: 66 c7 03 4f 4b
                                                 $0x4b4f, (%rbx)
1533
                                         movw
1534
         4021f5: c6 43 02 00
                                                 $0x0,0x2(%rbx)
                                         movb
1535
         4021f9: b8 00 00 00 00
                                                 $0x0,%eax
                                         mov
1536
         4021fe: 48 83 c4 10
                                         add
                                                 $0x10,%rsp
1537
         402202: 5b
                                                 %rbx
                                         pop
         402203: c3
1538
                                         reta
1539
         402204: 90
                                         nop
1540
         402205: 90
                                         nop
1541
         402206: 90
                                         nop
1542
         402207: 90
                                         nop
         402208: 90
1543
                                         nop
         402209: 90
1544
                                         nop
1545
         40220a: 90
                                         nop
1546
         40220b: 90
                                         nop
1547
         40220c: 90
                                         nop
1548
         40220d: 90
                                         nop
1549
         40220e: 90
                                         nop
1550
         40220f: 90
                                         nop
1551
1552
       0000000000402210 <__libc_csu_init>:
         402210: 48 89 6c 24 d8
1553
                                         mov
                                                 %rbp, -0x28(%rsp)
         402215: 4c 89 64 24 e0
1554
                                         mov
                                                 %r12,-0x20(%rsp)
         40221a: 48 8d 2d df 0b 20 00
1555
                                         lea
                                                 0x200bdf(%rip),%rbp
                                                                             # 602e00 <__init_array_end>
         402221: 4c 8d 25 d0 0b 20 00 lea
1556
                                                 0x200bd0(%rip),%r12
                                                                              # 602df8
          _frame_dummy_init_array_entry>
1557
         402228: 4c 89 6c 24 e8
                                         mov
                                                 %r13,-0x18(%rsp)
1558
         40222d: 4c 89 74 24 f0
                                         mov
                                                 %r14,-0x10(%rsp)
1559
         402232: 4c 89 7c 24 f8
                                                 %r15,-0x8(%rsp)
                                         mov
         402237: 48 89 5c 24 d0
1560
                                         mov
                                                 %rbx,-0x30(%rsp)
1561
         40223c: 48 83 ec 38
                                                 $0x38,%rsp
                                         sub
1562
         402240: 4c 29 e5
                                         sub
                                                 %r12,%rbp
1563
         402243: 41 89 fd
                                                 %edi,%r13d
                                         mov
1564
         402246: 49 89 f6
                                         mov
                                                 %rsi,%r14
         402249: 48 c1 fd 03
1565
                                         sar
                                                 $0x3,%rbp
1566
         40224d: 49 89 d7
                                                 %rdx,%r15
                                         mov
```

1505

000000000040218d <driver_post>:

```
callq 400ac0 <_init>
1567
         402250: e8 6b e8 ff ff
         402255: 48 85 ed
                                        test
                                               %rbp,%rbp
1568
1569
         402258: 74 1c
                                        je
                                               402276 <__libc_csu_init+0x66>
                                               %ebx,%ebx
1570
         40225a: 31 db
                                        xor
                                               0x0(%rax)
         40225c: 0f 1f 40 00
1571
                                        nopl
1572
         402260: 4c 89 fa
                                        mov
                                               %r15,%rdx
         402263: 4c 89 f6
                                               %r14,%rsi
1573
                                        mov
         402266: 44 89 ef
                                               %r13d,%edi
1574
                                        mov
                                        callq *(%r12,%rbx,8)
         402269: 41 ff 14 dc
1575
         40226d: 48 83 c3 01
                                        add
                                               $0x1,%rbx
1576
                                               %rbp,%rbx
1577
         402271: 48 39 eb
                                        cmp
         402274: 75 ea
                                               402260 <__libc_csu_init+0x50>
1578
                                        jne
1579
         402276: 48 8b 5c 24 08
                                        mov
                                               0x8(%rsp),%rbx
                                               0x10(%rsp),%rbp
         40227b: 48 8b 6c 24 10
                                        mov
1580
         402280: 4c 8b 64 24 18
                                               0x18(%rsp),%r12
1581
                                        mov
1582
         402285: 4c 8b 6c 24 20
                                        mov
                                               0x20(%rsp),%r13
                                               0x28(%rsp),%r14
1583
         40228a: 4c 8b 74 24 28
                                        mov
                                               0x30(%rsp),%r15
         40228f: 4c 8b 7c 24 30
1584
                                        mov
         402294: 48 83 c4 38
                                               $0x38,%rsp
1585
                                        add
1586
         402298: c3
                                        retq
         402299: 0f 1f 80 00 00 00 00
                                       nopl
                                               0x0(%rax)
1587
1588
       00000000004022a0 <__libc_csu_fini>:
1589
         4022a0: f3 c3
                                        repz retq
1590
         4022a2: 90
1591
                                        nop
1592
         4022a3: 90
                                        nop
1593
       Disassembly of section .fini:
1594
1595
       00000000004022a4 < fini>:
1596
         4022a4: 48 83 ec 08
                                        sub
                                               $0x8,%rsp
1597
         4022a8: 48 83 c4 08
                                        add
                                               $0x8,%rsp
1598
1599
         4022ac: c3
                                        retq
```

1600