```
Last login: Sat Jan 23 15:09:58 on ttvs001
Dhrumils-Air:~ Dhrumil$ ls
Applications Documents
Desktop Downloads
                                                                                     IdeaProjects Movies
                                                                                                                                                                               Pictures
Downloads Interrupters Music Pul
Dhrumils-Air:~ Dhrumils ssh Dpate85@23.99.192.124
Dpate85@23.99.192.124's password:
Welcome to Ubuntu 14.04.3 LTS (GNU/Linux 3.19.0-43-generic x86_64)
    * Documentation: https://help.ubuntu.com/
      System information as of Sat Jan 23 20:43:22 UTC 2016
      System load: 0.0 Processes: ...
Usage of /: 5.8% of 28.806B Users logged in: 0
IP address for eth0: 10.2.0.4
      Memory usage: 6%
Swap usage: 0%
      Graph this data and manage this system at: https://landscape.canonical.com/
      Get cloud support with Ubuntu Advantage Cloud Guest:
           http://www.ubuntu.com/business/services/cloud
 Last login: Sat Jan 23 20:43:23 2016 from 104-1-26-208.lightspeed.cicril.sbcglobal.net
 Dpate85@Dhrumil:~$ ls
dpate85   public
 dpate85  public
Dpate85@Dhrumil:~$ cd dpate85
 Dpate85@Dhrumil:~/dpate85$ ls
hw1 hw2 README.md
Dpate85@Dhrumil:~/dpate85$ cd hw2
Dpate85@Dhrumil:~/dpate85/hw2$ ls
  puzzles
Dpate85@Dhrumil:~/dpate85/hw2$ cd puzzles
  Dpate85@Dhrumil:~/dpate85/hw2/puzzles$ ls
DpateBSg@hrumli:-/opateBS/mWz/puzzless is
0 1 2 3 4 howto.txt secrets.txt
DpateBSg@hrumli:-/opateBS/hwZ/puzzless .72
The password is "yes" without quotes if the call to curl_easy_perform was successful; the password is "no" without quotes if the call to curl_easy_perform as unsuccessful.
You may not use gdb to answer this question.
DpateBSg@hrumli:-/opateBSJhwZ/puzzless objdump -d 2
2:
              file format elf64-x86-64
Disassembly of section .init:
0000000000400600 < init>:
400600: 48 83 ec 08
400604: 48 80 65 ed 19 20 00
40060b: 48 85 c0
40060b: 74 05
400610: 48 50 00 00 00
400615: 48 83 c4 08
                                                                                                             sub
                                                                                                                                 $0x8,%rsp
0x2019ed(%rip),%rax
                                                                                                                                                                                                        # 601ff8 <_fini+0x201704>
                                                                                                             mov
test
                                                                                                                                %rax,%rax
400615 <_init+0x15>
400670 <__gmon_start__@plt>
$0x8,%rsp
                                                                                                             je
callq
      400610:
400615:
400619:
                                                                                                              retq
 Disassembly of section .plt:
  00000000000400620 <curl_easy_init@plt-0x10>:
400620: ff 35 e2 19 20 00 pushq
400626: ff 25 e4 19 20 00 jmpq
40062c: 0f 1f 40 00 nopl
                                                                                                                                0x2019e2(%rip)
*0x2019e4(%rip)
0x0(%rax)
                                                                                                                                                                                            # 602008 <_fini+0x201714>
# 602010 <_fini+0x20171c>
  0000000000400630 <curl_easy_init@plt>:
400630: ff 25 e2 19 20 00
400636: 68 00 00 00 00
40063b: e9 e0 ff ff ff
                                                                                                             jmpq
pushq
jmpq
                                                                                                                                  *0x2019e2(%rip)
                                                                                                                                                                                               # 602018 <_fini+0x201724>
                                                                                                                                 $0x0
400620 <_init+0x20>
 0000000000400640 <curl_easy_perform@plt>:
400640: ff 25 da 19 20 00 ji
400646: 68 01 00 00 00 pl
40064b: e9 d0 ff ff ff
                                                                                                                                *0x2019da(%rip)
$0x1
400620 <_init+0x20>
                                                                                                                                                                                               # 602020 <_fini+0x20172c>
  *0x2019d2(%rip)
$0x2
400620 <_init+0x20>
                                                                                                                                                                                               # 602028 <_fini+0x201734>
  000000000400660 < _libc_start_main@plt>:
400660: ff 25 ca 19 20 00 j
400666: 68 03 00 00 00 p
400666: e9 00 ff ff ff j
                                                                                                                                  *0x2019ca(%rip)
                                                                                                                                                                                               # 602030 <_fini+0x20173c>
                                                                                                                                *0x2019ca(%r1p)
$0x3
400620 <_init+0x20>
  0000000000400670 <_gmon_start_@plt>:
400670: ff 25 c2 19 20 00
400676: 68 04 00 00 00
40067b: e9 a0 ff ff ff
                                                                                                                                *0x2019c2(%rip)
$0x4
400620 <_init+0x20>
                                                                                                                                                                                               # 602038 <_fini+0x201744>
 Disassembly of section .text:
  00000000000400680 <.text>:
                                          00 <.text>:
31 ed
49 89 d1
5e
48 89 e2
48 83 e4 f0
56
54
49 c7 c0 f0 08 40 00
48 c7 c1 80 08 40 00
48 c7 c7 fd 07 40 00
e8 b7 ff ff ff
f4
66 0f 1f 44 00 00
                                                                                                                              %ebp,%ebp
%rdx,%r9
%rsi,
%rsp,%rdx
$0xffffffffffffff0,%rsp
%rax
%904008f0,%r8
$0x400880,%rcx
$0x40087d,%rdi
400660 <_libc_start_main@plt>
      400680:
400682:
400685:
400686:
400689:
400686:
400686:
400696:
400690:
4006a9:
4006a9:
4006b0:
                                                                                                             xor mov mov cand mov mov callq housh mov push mov push mov push mov push sub pop mov ja 
                                            f4
66 0f 1f 44 00 00
b8 57 20 60 00
55
48 2d 50 20 60 00
48 83 f8 0e
48 89 e5
77 02
                                                                                                                                0x0(%rax,%rax,1)
$0x602057,%eax
%rbp
$0x602050,%rax
       4006h5
       4006b6
                                                                                                                                 $0xe02e00,000
$0xe,%rax
%rsp,%rbp
4006c7 <__gmon_start__@plt+0x57>
       4006hc
       400660
       4006c3:
       4006c5:
                                                                                                                                 %rbp
       4006c6:
       4006c7:
                                            b8 00 00 00 00
                                                                                                                                 $0x0.%eax
                                                                                                                                 %rax,%rax
4006c5 <__gmon_start__@plt+0x55>
       4006cc:
                                            48 85 c0
74 f4
       4006cf:
       4006d1:
                                                                                                                                  %rbp
$0x602050,%edi
                                            5d
bf 50 20 60 00
ff e0
0f 1f 80 00 00 00 00
b8 50 20 60 00
       4006d2:
       4006d7:
                                                                                                                                 0x0(%rax)
       4006d9:
       4006e0:
                                                                                                                                  $0x602050.%eax
                                                                                                             push
sub
sar
mov
mov
shr
add
sar
jne
       4006e5:
                                                                                                                                  %rbp
$0x602050,%rax
                                            48 2d 50 20 60 00
       4006e6:
                                                                                                                                $0x602050,
$0x3,%rax
%rsp,%rbp
%rax,%rdx
$0x3f,%rdx
%rdx,%rax
                                            48 c1 f8 03
48 89 e5
48 89 c2
       4006ec:
       4006f0:
       4006f3:
       4006f6:
                                            48 c1 ea 3f
48 01 d0
       4006fa:
       4006fd:
                                            48 d1 f8
75 02
                                                                                                                                  %100704 < gmon start @plt+0x94>
       400700:
                                                                                                             pop
retq
mov
test
je
pop
mov
      400702:
                                                                                                                                 %rbp
       400703:
                                            ba 00 00 00 00
48 85 d2
74 f4
       400704:
                                                                                                                                 $0x0.%edx
```

%rdx,%rdx 400702 <\_\_gmon\_start\_\_@plt+0x92>

%rbp %rax,%rsi

400709:

40070c 40070e:

40070f:

48 89 c6

```
bf 50 20 60 00
ff e2
0f 1f 80 00 00 00 00
75 11
55
48 89 e5
88 7e ff ff ff
5d
66 05 16 19 20 00 01
73 c3
0f 1f 40 00
48 83 3d c8 16 20 00
00
 400712:
                                                                                                                                                                                                                                                                        $0x602050.%edi
                                                                                                                                                                                                                              mov
jmpq
nopl
cmpb
jne
push
mov
callq
 400717:
                                                                                                                                                                                                                                                                        0x0(%rax)
 400719:
                                                                                                                                                                                                                                                                          $0x0,0x201929(%rip)
 400720:
                                                                                                                                                                                                                                                                                                                                                                                                                                   # 602050 <_edata>
 400727:
                                                                                                                                                                                                                                                                          40073a <__gmon_start__@plt+0xca>
 400729:
 40072a:
                                                                                                                                                                                                                                                                          %rsp.%rbp
 40072d:
                                                                                                                                                                                                                                                                        4006b0 <__gmon_start__@plt+0x40>
                                                                                                                                                                                                                              pop
movb
repz
nopl
cmpq
 400732:
                                                                                                                                                                                                                                                                      %rbp
$0x1,0x201916(%rip) # 602050 <_edata>
 400733:
 40073a:
                                                                                                                                                                                                                                                                      0x0(%rax)
 40073c:
                                                                                                                                                                                                                                                                                                                                                                                                      # 601e10 <_fini+0x20151c>
                                                                                                                                                                                                                                                                      $0x0.0x2016c8(%rip)
 400740:
                                                                               48 83 3d c8 16
00
74 1e
b8 00 00 00 00
48 85 c0
74 14
55
bf 10 1e 60 00
 400747:
                                                                                                                                                                                                                              je
mov
test
je
push
mov
                                                                                                                                                                                                                                                                        400768 <__gmon_start__@plt+0xf8>
 400748:
 40074a:
                                                                                                                                                                                                                                                                        $0x0.%eax
 40074f:
                                                                                                                                                                                                                                                                        %rax,%rax
400768 <__gmon_start__@plt+0xf8>
 400752:
 400754:
                                                                                                                                                                                                                                                                        %rbp
$0x601e10,%edi
 400755:
                                                                                                                                                                                                                                                                      %rsp,%rbp
*%rax
%rbp
4006e0 <__gmon_start__@plt+0x70>
                                                                                                                                                                                                                              mov
callq
 40075a:
                                                                                   48 89 e5
ff d0
 40075d:
 40075f:
                                                                               5d
e9 7b ff ff ff
0f 1f 00
e9 73 ff ff ff
55
48 89 e5
                                                                                                                                                                                                                             pop jmpq noph noph jmpq noph jmpq noph jmpq noph jmpq noph jmpq noph jmpq noph noph jmpq noph noph jmpq noph noph jmpq noph noph noph jmpq noph noph noph no
 400760:
 400765:
                                                                                                                                                                                                                                                                        (%rax)
                                                                                                                                                                                                                                                                        4006e0 <__gmon_start__@plt+0x70>
 400768:
 40076d:
                                                                                                                                                                                                                                                                        %rbp
                                                                                                                                                                                                                                                                        %rsp,%rbp
 40076e:
                                                                                                                                                                                                                                                                        %rbp
                                                                               | Sid 
 400771:
 400772:
                                                                                                                                                                                                                                                                        %rbp
 400773:
                                                                                                                                                                                                                                                                     %rsp,%rbp
%rbp
 400774:
 400777:
 400778:
                                                                                                                                                                                                                                                                        %rbp
 400779:
                                                                                                                                                                                                                                                                     %rsp,%rbp
%rbp
 40077a:
 40077d:
 40077e:
                                                                                                                                                                                                                                                                        %rbp
                                                                                                                                                                                                                                                                      %rsp,%rbp
%rbp
 400780:
 400783:
 400784:
                                                                                                                                                                                                                                                                        %rbp
 400785:
                                                                                                                                                                                                                                                                     %rsp,%rbp
%rbp
 400786:
 400789:
40078b: 40078c: 40079c: 40079c
                                                                                                                                                                                                                                                                        %rbp
                                                                                                                                                                                                                                                                     %rsp,%rbp
%rbp
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%rsp,%rbp
%rbp
 4007e6
 4007e9:
 4007ea:
                                                                                                                                                                                                                                                                      %rbp
 4007eb:
 4007ec:
                                                                                                                                                                                                                                                                      %rsp,%rbp
%rbp
 4007ef:
 4007f0:
                                                                                                                                                                                                                                                                      %rbp
 4007f1:
                                                                                 48 89 e5
5d
c3
55
                                                                                                                                                                                                                                                                      %rsp,%rbp
%rbp
 4007f2:
 4007f5:
 4007f6:
                                                                                                                                                                                                                                                                      %rbp
 4007f7:
                                                                              55
48 89 e5
5d
c3
55
48 89 e5
48 83 ec 20
e8 26 fe ff ff
48 89 45 f8
48 83 7d f8 00
                                                                                                                                                                                                                                                                      %rsp,%rbp
%rbp
 4007f8:
 4007fb:
 4007fc:
                                                                                                                                                                                                                                                                      %rbp
 4007fd:
                                                                                                                                                                                                                                                                      %rbp,
%rsp,%rbp
$0x20,%rsp
400630 <curl_easy_init@plt>
%rax,-0x8(%rbp)
$0x0,-0x8(%rbp)
   4007fe:
   400801:
   400805:
   40080a:
 40080e:
                                                                               48 83 7d f8 00

74 5a

c7 45 ec 12 27 00 00

8b 4d ec

48 8b 45 f8

80 80 9 40 00

89 ce

48 89 c7
                                                                                                                                                                                                                                                                      $0x0,-0x8(%rdp)
40086f - _gmon_start__@plt+0x1ff>
50x2712,-0x14(%rbp)
-0x14(%rbp),%ecx
-0x8(%rbp),%rax
$0x400908,%edx
 400813:
 400815
 40081c:
 40081f:
 400823:
 400828:
                                                                                                                                                                                                                                                                      %ecx,%esi
%rax,%rdi
 40082a:
```

```
b8 00 00 00 00
e8 19 fe ff ff
c7 45 f0 34 00 00 00
8b 4d f0
            40082d:
                                                                               $0x0.%eax
                                                                    callq
movl
mov
mov
mov
                                                                               400650 <curl_easy_setopt@plt>
$0x34,-0x10(%rbp)
-0x10(%rbp),%ecx
             400832:
             400837:
             40083e
             400841:
                                 48 8b 45 f8
                                                                               -0x8(%rbp),%rax
             400845:
                                 ba 01 00 00 00
                                                                               $0x1.%edx
             40084a
                                 89 ce
48 89 c7
             40084c
                                 b8 00 00 00 00
e8 f7 fd ff ff
48 8b 45 f8
48 89 c7
             40084f
                                                                     mov
callq
                                                                               $0x0.%eax
             400854:
                                                                               400650 <curl_easy_setopt@plt> -0x8(%rbp),%rax
             400859:
             40085d:
                                                                     mov
callq
                                                                               %rax.%rdi
                                e8 db fd ff ff
89 45 f4
                                                                               400640 <curl_easy_perform@plt>
             400860:
                                                                               %eax,-0xc(%rbp)
$0x0,%eax
             400865:
                                                                     mov
                                 b8 00 00 00 00
             400868:
             40086d:
                                 eb 05
b8 01 00 00 00
                                                                               400874 <__gmon_start__@plt+0x204> $0x1,%eax
             40086f:
             400874:
                                                                     leaved
            400875:
                                                                    retq
nopw
            400876:
                                 66 2e 0f 1f 84 00 00
                                                                               %cs:0x0(%rax.%rax.1)
            40087d:
                                 00 00 00
            400880:
                                 41 57
41 89 ff
                                                                     push
                                                                               %r15
                                                                               %edi,%r15d
%r14
            400882:
            400885:
                                 41 56
49 89 f6
                                                                    push
                                                                               %rsi,%r14
            400887:
                                 41 55
49 89 d5
41 54
            40088a:
                                                                     push
                                                                               %r13
                                                                               %rdx,%r13
%r12
            40088c:
            40088f:
                                                                     push
                                 4c 8d 25 68 15 20 00
                                                                               0x201568(%rip),%r12
                                                                                                                      # 601e00 < fini+0x20150c>
            400891:
                                                                     lea
            400898:
                                 55
48 8d 2d 68 15 20 00
                                                                     push
lea
                                                                               %rbp
0x201568(%rip),%rbp
                                                                                                                      # 601e08 < fini+0x201514>
            400899:
            4008a0:
                                 53
4c 29 e5
                                                                     push
                                                                               %rbx
%r12,%rbp
            4008a1:
                                                                     sub
                                 4c 29 e5
31 db
48 c1 fd 03
48 83 ec 08
e8 4d fd ff ff
48 85 ed
74 1e
0f 1f 84 00 00 00 00
            4008a4
                                                                     xor
                                                                               %ebx,%ebx
$0x3,%rbp
            4008a6:
            4008aa:
                                                                               $0x8,%rsp
400600 <_init>
            4008ae:
                                                                     callq
                                                                               %rbp,%rbp
4008d6 <__gmon_start__@plt+0x266>
0x0(%rax,%rax,1)
            4008b3:
                                                                     test
            4008b6:
                                                                     je
nopl
            4008b8:
                                 0f 1f 84 00
00
4c 89 ea
4c 89 f6
44 89 ff
41 ff 14 dc
48 83 c3 01
48 39 eb
75 ea
48 83 c4 08
5b
             4008bf:
                                                                               %r13,%rdx
%r14,%rsi
%r15d,%edi
*(%r12,%rbx,8)
             4008c0:
                                                                     mov
             4008c3:
                                                                     mov
             4008c6:
                                                                     callq
             4008c9:
             4008cd:
                                                                     add
                                                                               $0x1,%rbx
             4008d1:
                                                                    cmp
jne
add
                                                                               %rbp,%rbx
                                                                               4008c0 <__gmon_start__@plt+0x250>
             4008d4
             4008d6:
                                                                               $0x8,%rsp
             4008da:
                                                                     pop
                                                                               %rbx
                                 5d
41 5c
41 5d
41 5e
41 5f
                                                                               %rbp
%r12
%r13
%r14
%r15
             4008db:
                                                                     pop
            4008dc:
4008de:
4008e0:
4008e2:
4008e4:
4008e5:
4008ec:
4008f0:
                                                                     pop
                                                                     pop
                                                                     pop
                                                                     pop
                                 66 66 2e 0f 1f 84 00
00 00 00 00
f3 c3
                                                                    retq
data32 nopw %cs:0x0(%rax,%rax,1)
repz retq
           Display DWARF info in the file
Display the contents of the symbol table(s)
Display the contents of the dynamic symbol table
Display the relocation entries in the file
Display the dynamic relocation entries in the file
Read options from <file
Display this program's version number
List object formats and architectures supported
Display this information
           -t, --syms
-T, --dynamic-syms
-r, --reloc
-R, --dynamic-reloc
@<file>
-v, --version
-i, --info
-H, --help
         Make additional dwarf internal consistency checks.
                   --dwarf-check
```

objdump: supported targets: elf64-x86-64 elf32-i386 elf32-x86-64 a.out-i386-linux pei-i386 pei-x86-64 elf64-l1om elf64-klom elf64-little elf64-big elf32-little elf32-big pe-x86-64 pe-i386 plugin srec symb olsrec verilog tekhex binary ihex objdump: supported architectures: i386 i386:x86-64 i386:x64-32 i8086 i386:intel i386:x86-64:intel i386:x64-32:intel i386:x86-64:nacl i386:x86-64:nacl l1om llom:intel klom klom:intel plugin

```
The following i386/x86-64 specific disassembler options are supported for use with the -M switch (multiple options should be separated by commas): x86-64 Disassemble in 64bit mode i386 Disassemble in 32bit mode Disassemble in 16bit mode
                                                   Display instruction in AT&T syntax
Display instruction in Intel syntax
           intel
                                                   Display instruction in AT&T mnemonic
          intel-mnemonio
                                                   Display instruction in Intel mnemonic
                                                  Assume 64bit address size
Assume 32bit address size
Assume 16bit address size
Assume 32bit data size
Assume 16bit data size
          addr64
           addr32
           addr16
          data32
data16
            -G, --Stabs
-W[lLiaprmfFsoRt] or
              =addr,=cu index]
                                                                                               Display DWARF info in the file
Display the contents of the symbol table(s)
Display the contents of the dynamic symbol table
Display the relocation entries in the file
Display the dynamic relocation entries in the file
Read options from <file>
Display this program's version number
List object formats and architectures supported
Display this information
         -t, --syms
-T, --dynamic-syms
-r, --reloc
-R, --dynamic-reloc
@<file>
-v, --version
-i, --info
-H, --help
                                                                                                     optional:
Specify the target object format as BFDNAME
Specify the target architecture as MACHINE
Only display information for section NAME
self pass text Opr on to the disassembler
Assume big endian format when disassembling
Assume big endian format when disassembling
Include context from start of file (with -5)
Add DIR to search list for source files
Include line numbers and filenames in output
Include file offsets when displaying information
Decode mangled/processed symbol names
The STYLE, if specified, can be auto', 'gnu',
'lucid', 'arm', 'hp', 'edg', 'gnu-'3', 'java'
or 'gnat'
Format output for more than 80 columns
Do not skip blocks of zeroes when disassembling
Only process data whose address is >= ADDR
Only process data whose address is >= ADDR
Print complete address alongside disassembly
Display Mac alongside symbolic disassembly
Display have alongside symbolic disassembly
Display MOTH bytes on a single line for -d
Add OFFSET to all displayed section addresses
Include special symbols in symbol dumps
Add PREFIX to absolute paths for -5
Strip initial directory names for -5
Do not display DIEs at depth N or greater
Display DIEs starting with N, at the same depth
or deeper
Make additional dwarf internal consistency checks.
elf64-x86-64 elf32-i386 elf32-x86-64 a.out-i386-linux
        The following switches are optional:
-b, --target=BFDNAME Spec
-m, --architecture=MACHINE Spec
-j, --section=NAME Only
          -j, --section=NAME
-M, --disassembler-options=OPT
-EB --endiam=big
-EL --endiam=little
--file-start-context
-I, --include=DIR
-, --line-numbers
-F, --file-offsets
-C, --demangle[=STYLE]
         -w, --wide
-z, --disassemble-zeroes
-start-address=ADDR
-stop-address=S-DDR
-prefix-addresses
-[no-]show-raw-insn
-insn-width=MIDTH
-adjust-vma=OFFSET
-special-syms
--prefix=PREFIX
--prefix=Strip=LEVEL
-dwarf-depth=N
--dwarf-start=N
    objdump: supported targets: elf64-x86-64 elf32-i386 elf32-x86-64 a.out-i386-linux pei-i386 pei-x86-64 elf64-l10m elf64-k10m elf64-little elf64-big elf32-little elf32-big pe-x86-64 pe-i386 plugin srec symb
olsrec verilog tekhex binary ihex
objdump: supported architectures: i386 i386:x86-64 i386:x64-32 i8086 i386:intel i386:x86-64:intel i386:x64-32:intel i386:x86-64:nacl i386:x86-32:nacl l10m l10m:intel k10m k10m:intel plugin
   The following i386/x86-64 specific disassembler options are supported for use with the -M switch (multiple options should be separated by commas): x86-64 Disassemble in 64bit mode i386 Disassemble in 32bit mode i386 Disassemble in 18bit mode at Display instruction in AT6T syntax intel Display instruction in Intel syntax att-mnemonic
Display instruction in AT&T mnemonic
          intel-mnemon
          -G, --stabs Display (in raw form) any STABS info in the file
-W[lLiaprmfFsoRt] or
--dwarf[=rawline,=decodedline,=info,=abbrev,=pubnames,=aranges,=macro,=frames,
=frames-interp,=str,=loc,=Ranges,=pubtypes,
=gdb_index,=trace_info,=trace_abbrev,=trace_aranges,
=addr,=cu_index]
                                                                                                 Display DWARF info in the file
                                                                                               Display DWARF info in the file
Display the contents of the symbol table(s)
Display the contents of the dynamic symbol table
Display the relocation entries in the file
Display the dynamic relocation entries in the file
Read options from <file>
Display this program's version number
List object formats and architectures supported
Display this information
            -t. --svms
          -T, --syms
-T, --dynamic-syms
-r, --reloc
-R, --dynamic-reloc
@<file>
```

@<file>
-v, --version
-i, --info
-H, --help

```
The following switches are optional:
-b, --target=BFDNAME Spec.
-m, --architecture=MACHINE Spec.
-j, --section=NAME Only
-H, --disassembler-options=Our
                                                                                       onal:
Specify the target object format as BFDNAME
Specify the target architecture as MACHINE
Only display information for section NAME
Pass text OPT on to the disassembler
Assume big endian format when disassembling
Assume little endian format when disassembling
Include context from start of file (with -5)
Add DIR to search list for source files
Include line numbers and filenames in output
Include ille offsets when displaying information
Decode mangled/processed symbol names
The STYLE, if specified, can be 'auto', 'qnu',
'lucid', 'arm', 'hp', 'edg', 'gnu-v3', 'java'
or 'gnat'
Format output for more than 80 columns
Do not skip blocks of zeroes when disassembling
Only process data whose address is >= ADDR
                  --endian=big
        -EL --endian=little
                   --file-start-context
        -I. --include=DIR
         -l, --line-numbers
         -F. --file-offsets
         -C. --demangle[=STYLE]
        -w, --wide
-z, --disassemble-zeroes
                                                                                         Only process data whose address is >= ADDR
Only process data whose address is <= ADDR
                   --start-address=ADDR
                   --stop-address=ADDR
                                                                                         Print complete address alongside disassembly Display hex alongside symbolic disassembly Display WIDTH bytes on a single line for -d Add OFFSET to all displayed section addresses
                    --prefix-addresses
                    --[no-]show-raw-insn
                    --insn-width=WIDTH
                    --adjust-vma=OFFSET
                                                                             And Original Symbols in Symbol dumps 
Include special symbols in Symbol dumps 
Add PREFIX to absolute paths for -S 
Strip initial directory names for -S 
Do not display DIEs at depth N or greater 
Display DIEs starting with N, at the same depth
                    --special-syms
                    --prefix=PREFIX
                    --prefix-strip=LEVEL
                    --dwarf-depth=N
                   --dwarf-start=N
                                                                               or deepe
                                                                               Make additional dwarf internal consistency checks.
                   --dwarf-check
  objdump: supported targets: elf64-x86-64 elf32-i386 elf32-x86-64 a.out-i386-linux pei-i386 pei-x86-64 elf64-liom elf64-klom elf64-little elf64-big elf32-little elf32-big pe-x86-64 pe-i386 plugin srec symb
    olsrec verilog tekhex binary ihex
   OUSTEC VERIFUE DINNEY DINNEY DINNEY DESCRIPTION DESCRIPTION DESCRIPTION DE LA 1386:X64-32: 1808 1386:X64-32: INTEL 1386:X64-32:
  The following i386/x86-64 specific disassembler options are supported for use with the —M switch (multiple options should be separated by commas): x86-64 Disassemble in 64bit mode 1386 Disassemble in 32bit mode 618086 Disassemble in 16bit mode 18086 Display instruction in AT&T syntax intel Display instruction in Intel syntax
att-mnemonic
                                      Display instruction in AT&T mnemonic
   warning: /home/Dpate85/dpate85/hw2/puzzles/2 is not a directory.
(gdb) Quit
  (gdb) Quit
(gdb) quit
Dpate85@Dhrumil:~/dpate85/hw2/puzzles$ clear
  Dpate85@Dhrumil:~/dpate85/hw2/puzzles$ objdump -d 2
                file format elf64-x86-64
  Disassembly of section .init:
  0000000000400600 < init>:
400600: 48 83 ec 08
400604: 48 80 5 ed 19 20 00
40060b: 48 85 c0
40060b: 74 05
400610: e8 5b 00 00 00
400615: 48 83 c4 08
400619: c3
                                                                                                           sub
mov
test
je
callq
add
retq
                                                                                                                             $0x8,%rsp
0x2019ed(%rip),%rax
%rax,%rax
400615 <_init+0x15>
400670 <__gmon_start__@plt>
$0x8,%rsp
                                                                                                                                                                                                     # 601ff8 <_fini+0x201704>
  Disassembly of section .plt:
  0000000000400620 <curl_easy_init@plt-0x10>:
400620: ff 35 e2 19 20 00 pus
400626: ff 25 e4 19 20 00 jmp
40062c: 0f 1f 40 00 nop
                                                                                                           pushq
jmpq
nopl
                                                                                                                             0x2019e2(%rip)
*0x2019e4(%rip)
0x0(%rax)
                                                                                                                                                                                       # 602008 <_fini+0x201714>
# 602010 <_fini+0x20171c>
  *0x2019e2(%rip)
                                                                                                                                                                                          # 602018 < fini+0x201724>
                                                                                                                              400620 < init+0x20>
  *0x2019da(%rip)
                                                                                                                                                                                          # 602020 < fini+0x20172c>
                                                                                                                              400620 < init+0x20>
  0000000000400650 <curl_easy_setopt@plt>:
400650: ff 25 d2 19 20 00
400656: 68 02 00 00 00
40065b: e9 c0 ff ff ff
                                                                                                                               *0x2019d2(%rip)
                                                                                                                                                                                          # 602028 < fini+0x201734>
                                                                                                            pushq
jmpq
                                                                                                                              400620 < init+0x20>
  00000000000400660 <__libc_start_main@plt>:
400660: ff 25 ca 19 20 00 j
400666: 68 03 00 00 0 p
40066b: e9 b0 ff ff ff j
                                                                                                            impa
                                                                                                                               *0x2019ca(%rip)
                                                                                                                                                                                          # 602030 < fini+0x20173c>
                                                                                                            pusha
                                                                                                                              400620 < init+0x20>
  000000000400670 <_gmon_start_@plt>:
400670: ff 25 c2 19 20 00
400676: 68 04 00 00 00
40067b: e9 a0 ff ff ff
                                                                                                            impa
                                                                                                                              *0x2019c2(%rip)
                                                                                                                                                                                          # 602038 < fini+0x201744>
                                                                                                            pushq
jmpq
                                                                                                                              400620 < init+0x20>
  Disassembly of section .text:
  0000000000400680 <.text>:
        400680:
                                            31 ed
49 89 d1
                                                                                                            xor
mov
                                                                                                                              %ebp.%ebp
        400682:
                                                                                                                              %rdx.%r9
                                            5e
48 89 e2
48 83 e4 f0
                                                                                                           pop
mov
and
        400685
                                                                                                                              %rsi
        400686
                                                                                                                               %15p,%10x
$0xfffffffffffffff0.%rsn
        400689
```

40068d

40068e:

40068f:

400696:

nush %rax

nush

\$0x4008f0.%r8

\$0x400880,%rcx

49 c7 c0 f0 08 40 00 48 c7 c1 80 08 40 00

```
48 c7 c7 fd 07 40 00
e8 b7 ff ff ff
f4
66 0f 1f 44 00 00
b8 57 20 60 00
                                                                                                            mov
callq
hlt
                                                                                                                               $0x4007fd,%rdi
400660 <__libc_start_main@plt>
40069d:
4006a4:
4006a9:
                                                                                                                                 0x0(%rax,%rax,1)
4006aa:
                                                                                                             nopw
mov
push
sub
cmp
mov
ja
pop
retq
mov
test
je
pop
mov
 4006b0:
                                                                                                                                  $0x602057.%eax
                                       b8 57 20 60 00

55

48 2d 50 20 60 00

48 83 f8 0e

48 89 e5

77 02

5d

c3
 4006b5:
                                                                                                                                 %rbp
$0x602050,%rax
 4006b6:
 4006bc:
                                                                                                                                  $0xe.%rax
 4006c0:
                                                                                                                                 %rsp,%rbp
4006c7 <__gmon_start__@plt+0x57>
 4006c3:
 4006c5:
                                                                                                                                 %rbp
 4006c6:
                                       c3 b8 00 00 00 00 00 48 85 c0 74 f4 5d bf 50 20 60 00 ff e0 ff f8 00 00 00 00 00 b8 50 20 60 00 55
                                                                                                                                 $0x0.%eax
 4006c7:
 4006cc:
                                                                                                                                 %rax,%rax
4006c5 <__gmon_start__@plt+0x55>
4006cf:
4006d1:
                                                                                                                                 %rbp
$0x602050,%edi
4006d2:
                                                                                                             jmpq
nopl
mov
4006d7:
                                                                                                                                 *%rax
0x0(%rax)
4006d9:
4006e0:
                                                                                                                                 $0x602050.%eax
                                       55
48 2d 50 20 60 00
48 c1 f8 03
48 89 e5
48 89 c2
4006e5:
                                                                                                             push
                                                                                                                                 %rbp
$0x602050,%rax
4006e6:
                                                                                                             sub
4006ec:
                                                                                                             sar
                                                                                                                                 $0x3,%rax
                                                                                                             mov
mov
shr
4006f0:
                                                                                                                                 %rsp,%rbp
4006f3:
                                                                                                                                 %rax,%rdx
                                       48 89 C2
48 C1 ea 3f
48 01 d0
48 d1 f8
75 02
5d
C3
4006f6:
                                                                                                                                 $0x3f,%rdx
%rdx,%rax
4006fa:
                                                                                                             add
sar
jne
pop
retq
mov
test
je
pop
mov
jmpq
nopl
cmpb
jne
push
4006fd:
                                                                                                                                  %1ax
400704 <__gmon_start__@plt+0x94>
400700:
400702:
                                                                                                                                 %rbp
400703:
                                      $0x0,%edx
400704:
400709:
                                                                                                                                  %rdx,%rdx
400702 <__gmon_start__@plt+0x92>
40070c:
                                                                                                                                %rbp
%rax,%rsi
$0x602050,%edi
40070e:
40070f:
400712:
400717:
                                                                                                                                   *%rdx
                                                                                                                                *%rdx
0x0(%rax)
$0x0,0x201929(%rip) # 6020
40073a <__gmon_start__@plt+0xca>
400719:
                                                                                                                                                                                                             # 602050 <_edata>
400720:
400727:
                                                                                                                                %rsp,%rbp
4006b0 <__gmon_start__@plt+0x40>
400729:
40072a:
                                                                                                             mov
callq
40072d:
400732:
                                                                                                             pop
movb
                                                                                                                                %rbp
$0x1,0x201916(%rip) # 602050 <_edata>
4007312 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 400732 4
                                                                                                             repz retq
nopl 0x0(%rax)
cmpq $0x0,0x2016c8(%rip) # 601e10 <_fini+0x20151c>
                                                                                                             cmpq
                                                                                                                                400768 <__gmon_start__@plt+0xf8>
$0x0,%eax
%rax,%rax
400768 <__gmon_start__@plt+0xf8>
                                                                                                             mov
test
je
push
                                                                                                                                400/08 <_gmon_start_@plt+0x18>
%rbp
$0x601e10,%edi
%rsp,%rbp
*%rax
%rbp
4006e0 <__gmon_start_@plt+0x70>
                                                                                                             mov
mov
callq
                                                                                                            (%rax)
4006e0 < _gmon_start_@plt+0x70>
%rbp
%rsp,%rbp
%rsp,%rbp
                                                                                                                                %rbp
%rsp,%rbp
%rbp
                                                                                                                                %rbp
%rsp,%rbp
%rbp
4007ac
4007h0
4007b3:
4007b4:
                                                                                                                                %rbp
4007b5:
4007b6:
                                                                                                                                %rsp,%rbp
%rbp
4007b9:
4007ba:
                                                                                                                                %rbp
4007bb:
                                       48 89 e5
5d
c3
55
                                                                                                                                %rsp,%rbp
%rbp
4007bc:
4007bf:
4007c0:
                                                                                                                                %rbp
4007c1:
                                       48 89 e5
5d
c3
55
 4007c2:
                                                                                                                                %rsp,%rbp
%rbp
 4007c5:
 4007c6:
                                                                                                                                %rbp
 4007c7:
                                       48 89 e5
5d
c3
55
 4007c8:
                                                                                                                                %rsp,%rbp
%rbp
 4007cb:
 4007cc:
 4007cd:
                                                                                                                                %rbp
                                        48 89 e5
4007ce:
                                                                                                                                 %rsp.%rbp
                                        5d
c3
55
4007d1:
                                                                                                                                %rbp
4007d2
                                                                                                                                %rbn
4007d3:
                                       48 89 e5
5d
c3
55
4007d4:
                                                                                                                                %rsp,%rbp
%rbp
4007d7:
4007d8:
                                                                                                                                %rbp
4007d9:
```

```
48 89 e5
5d
c3
                                                                                                                                                                                                           %rsp,%rbp
%rbp
             4007dd:
                                                                                                                                                                              pop
retq
push
mov
pop
retq
push
mov
pop
retq
push
mov
pop
retq
push
             4007de:
             4007df:
                                                                                                                                                                                                            %rbp
                                                                      48 89 e5
5d
c3
             4007e0:
                                                                                                                                                                                                             %rsp.%rbp
             4007e3:
                                                                                                                                                                                                            %rbp
             4007e4:
             4007e5:
                                                                                                                                                                                                            %rbp
             4007e6:
                                                                       48 89 e5
                                                                                                                                                                                                            %rsp.%rbp
             4007e9:
                                                                       5d
c3
                                                                                                                                                                                                            %rbp
             4007ea
             4007eb:
                                                                       55
48 89 e5
                                                                                                                                                                                                            %rbp
             4007ec:
                                                                                                                                                                                                            %rsp.%rbp
             4007ef:
                                                                       5d
c3
                                                                                                                                                                                                            %rbp
             4007f0:
             4007f1:
                                                                       55
48 89 e5
                                                                                                                                                                                                            %rbp
             4007f2:
                                                                                                                                                                                                            %rsp.%rbp
            4007f5:
                                                                       5d
c3
                                                                                                                                                                               pop
retq
                                                                                                                                                                                                            %rbp
            4007f6:
            4007f7:
                                                                       55
48 89 e5
                                                                                                                                                                               push
mov
                                                                                                                                                                                                            %rbp
            4007f8:
                                                                                                                                                                                                            %rsp,%rbp
            4007fb:
                                                                       5d
                                                                                                                                                                               pop
retq
                                                                                                                                                                                                            %rbp
            4007fc:
                                                                       с3
             4007fd:
                                                                       55
48 89 e5
                                                                                                                                                                               push
mov
                                                                                                                                                                                                            %rbp
                                                                    %rsp,%rbp
            4007fe:
                                                                                                                                                                                                         %rsp,%rbp
$0x20,%rsp
400630 <curl_easy_init@plt>
%rax,-0x8(%rbp)
$0x0,-0x8(%rbp)
40086f <__gmon_start__@plt+0x1ff>
50x2712,-0x14(%rbp)
-0x14(%rbp),%ecx
-0x8(%rbp),%rax
$0x409000,%edx
%erx.%esi
            400801:
                                                                                                                                                                               sub
            400805:
                                                                                                                                                                               callq
                                                                                                                                                                              mov
cmpq
je
movl
            40080a:
            40080e:
            400813
            400815:
                                                                                                                                                                              mov
mov
mov
            40081c
            40081f
            400823:
            400828:
                                                                                                                                                                               mov
mov
                                                                                                                                                                                                             %ecx,%esi
            40082a:
                                                                                                                                                                                                             %rax,%rdi
                                                                                                                                                                                                           %rax,%rd1
$9x0,%eax
400650 <curl_easy_setopt@plt>
$0x34,-0x10(%rbp)
-0x10(%rbp),%ecx
-0x8(%rbp),%rax
$0x1,%edx
                                                                                                                                                                              mov
callq
movl
mov
mov
            40082d:
            400832:
            400837:
            40083e:
            400841
            400845:
                                                                                                                                                                               mov
             40084a:
                                                                                                                                                                               mov
                                                                                                                                                                                                             %ecx,%esi
             40084c:
                                                                                                                                                                               mov
                                                                                                                                                                                                            %rax,%rdi
                                                                                                                                                                                                           %0x0,%eax
400650 <curl_easy_setopt@plt>
-0x8(%rbp),%rax
             40084f
                                                                                                                                                                               mov
callq
             400854:
             400859:
                                                                                                                                                                               mov
                                                                                                                                                                                                         -uxokiph, wiax

krax, krdi

400640 <curl_easy_perform@plt>

%eax,-0xc(%rbp)

50x0, %eax

400874 <_gmon_start__@plt+0x204>

$0x1,%eax
             40085d:
                                                                                                                                                                               mov
callq
             400860:
             400865:
                                                                                                                                                                               mov
mov
             400868:
            409861: 409884: 409884: 409884: 409884: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886: 409886
                                                                       eb 05
b8 01 00 00 00
                                                                                                                                                                              leaveq
retq
nopw
                                                                    %cs:0x0(%rax,%rax,1)
                                                                                                                                                                                                        %r15
%edi,%r15d
%r14
%r5i,%r14
%r13
%rdx,%r13
%r12
0x201568(%rip),%r12  # 601e0
%rbx
%rbx
%rbx
%rbx
%rbx
%rbx
%sbx,%ebx
%s0x3,%rbp
$50x3,%rbp
$50x3,%rbp
$50x3,%rbp
$60x60 < init>%rbp,%rbp
%rbx,%rbx
%rbx,%rb
                                                                                                                                                                                                            %r15
                                                                                                                                                                              mov
push
                                                                                                                                                                              mov
push
                                                                                                                                                                              mov
push
lea
push
lea
push
sub
xor
sar
sub
callq
test
je
nopl
                                                                                                                                                                                                                                                                                                                            # 601e00 < fini+0x20150c>
                                                                                                                                                                                                                                                                                                                            # 601e08 < fini+0x201514>
                                                                                                                                                                                                       mov %r13,%rdx
mov %r14,%rsi
mov %r14,%rsi
mov %r14,%rsi
mov %r15d,%edi
callq *(%r12,%rbx,8)
add $0x1,%rbx
mp %rbp,%rbx
jne 4008c0 <_gmon_start_@plt
add $0x8,%rsp
pop %rbx
pop %rbp
pop %r12
pop %r13
pop %r14
pop %r15
retq
data32 nopw %cs:0x0(%rax,%rax,1)
             4008f0:
                                                                                                                                                                               repz retq
   Disassembly of section .fini:
  4008f4: 48 83 ec 08 sub $0x8,%rsp 4008f8: 48 83 ec 08 sub $0x8,%rsp 4008f8: 48 83 ec 08 retq pate85@thrumil:-/dpate85/hb/2/puzzles$ ./2
The password is "yes" without quotes if the call to curl_easy_perform was successful; the password is "no" without quotes if the call to curl_easy_perform as unsuccessful. Dpate85@thrumil:-/dpate85/hb/2/puzzles$ readelf - 2
Symbol table '.dynsym' contains 14 entries:
          uptions are:
-a --all
-h --file-header
-l --program-headers
--segments
-S --section-headers
                                                                                                            Equivalent to: -h -l -S -s -r -d -V -A -I
                                                                                                         Equivalent to: -n -t -5 -5 -r -
Display the ELF file header
Display the program headers
An alias for —-program-headers
Display the sections' header
An alias for —-section-headers
                          --sections
```

4007da:

```
-e --headers
                                                                          Equivalent to: -h -l -S
     -s --syms
--symbols
--dyn-syms
                                                                         Display the symbol table
An alias for --syms
Display the dynamic symbol table
                                                                         Display the dynamic symbol table
Display the core notes (if present)
Display the relocations (if present)
Display the unwind info (if present)
Display the unwind info (if present)
Display the dynamic section (if present)
Display the version sections (if present)
Display architecture specific information (if any)
Display the symbol/file index in an archive
Use the dynamic section info when displaying symbols
name>
       -r --relocs
              --unwind
              --dvnamic
               --version-info
              --arch-specific
               --archive-index
              --use-dynamic
                                                                          name>
Dump the contents of section <number|name> as bytes
     -p --string-dump=<number|name>
                                                                         Dump the contents of section <number|name> as strings
     -R --relocated-dump=<number|name>
                                                                        Dump the contents of section <number|name> as relocated bytes
      -w[lLiaprmfFsoRt] or
      --debug-dump[=rawline,=decodedline,=info,=abbrev,=pubnames,=aranges,=macro,=frames,
                                            =frames-interp,=str,=loc,=Ranges,=pubtypes,
=gdb_index,=trace_info,=trace_abbrev,=trace_aranges,
                                             =addr,=cu_index]
                                                                          index)
Display the contents of DWARF2 debug sections
      --dwarf-depth=N
                                                                         Do not display DIEs at depth N or greater
                                                                         Display DIEs starting with \mathbf{N}\text{,} at the same depth
      --dwarf-start=N
                                                                          or deeper
Display histogram of bucket list lengths
      -I --histogram
-1 -Histoyram Display histoyram of butter tist tengths

#W -wide Allow output width to exceed 80 characters

@cfile> Read options from cfile>
-H -help Display this information
-v-version Display this information of readelf
Dpare55@Dhrumil:~/dpate55/hw2/puzzles5 readelf -a 2
          Header:
agic: 7f 45 4c 46 02 01 01 00 00 00 00 00 00 00 00 00
                                                                                                             ELF64
2's complement, little endian
1 (current)
UNIX - System V
     Data:
      ABI Version:
                                                                                                              EXEC (Executable file)
Advanced Micro Devices X86-64
      Type:
      Machine:
      Version:
      Entry point address:
      Start of program headers:
Start of section headers:
                                                                                                              64 (bytes into file)
8600 (bytes into file)
     Flags: Oxtellon leaders: Oxtellon Size of this header: 64
Size of program headers: 56
Number of program headers: 9
Size of section headers: 24
Section header string table index: 27
                                                                                                              9
64 (bytes)
                 Section Headers:
      [Nr] Name
Size
     [19]
     [21]
     [22]
     [23]
     [24]
     [25]
     [26]
     ey to Flags:
W (write), A (alloc), X (execute), M (merge), S (strings), l (large)
I (info), L (link order), G (group), T (TLS), E (exclude), x (unknown)
O (extra OS processing required) o (OS specific), p (processor specific)
There are no section groups in this file.
Program Headers:
     Type
                e Offset VirtAddr PhysAddr FileSiz MemSiz Plags Align Plags Plags Align Plags 
                                                                                                          VirtAddr
                                                                                                                                                                  PhysAddr
     PHDR
     INTERP
     LOAD
     LOAD
     DYNAMTC
```

0x0000000000001e0 0x00000000001e0 RW 8 0x0000000000000254 0x0000000000400254 0x000000000400254

NOTE

```
GNU_EH_FRAME
      GNU STACK
      GNU RELRO
     Section to Segment mapping:
      Seament Sections...
                            .interp
                            .....:p.
.interp.note.ABI-tag .note.gnu.build-id .gnu.hash .dynsym .dynstr .gnu.version .gnu.version_r .rela.dyn .rela.plt .init .plt .text .fini .rodata .eh_frame_hdr .eh_frame
.init_array .fini_array .jcr .dynamic .got .got.plt .data .bss
                            .note.ABI-tag .note.gnu.build-id
         06
07
                           .init array .fini array .icr .dvnamic .got
         08
 Dynamic section at offset 0x1e18 contains 25 entries:
    Tag Type
0x00000000000000001 (NEEDED)
                                                                                                                Name/Value
                                                                                                              Shared library: [libcurl-gnutls.so.4]
Shared library: [libc.so.6]
     0x0000000000000001 (NEEDED)
0x0000000000000000c (INIT)
                                                                                                              0×400600
     0x000000000000000d (FINI)
                                                                                                              0x4008f4
    0x601e00
                                                                                                               8 (bytes)
0x601e08
                                                                                                               8 (bytes)
0x400298
                                                                                                               0×400420
                                                                                                               0x4002d6
   244 (bytes)
                                                                                                               24 (bytes)
                                                                                                               0x0
0x602000
                                                                                                               120 (bytes)
                                                                                                               RELA
0x400588
                                                                                                              24 (bytes)
24 (bytes)
0x400530
                                                                                                              0x400514
 Relocation section '.rela.dyn' at offset 0x570 contains 1 entries:
Offset Info Type Sym. Value Sym. Name + Addend
000000061ff8 000700000000 R_X86_64_GLOB_DAT 000000000000000 __gmon_start__ + 0
 Relocation section '.rela.plt' at offset 0x588 contains 5 entries:

        Relocation section '.rela.plt' at offset 0x588 contains 5 entries:
        offset Info Type Sym. Value Sym. Name + Addend 000000602118 000100000007 R.X86_64_JUMP_SLO 00000000000000000 curl_easy_init + 0 0000000002020 0002000000007 R.X86_64_JUMP_SLO 00000000000000000 curl_easy_perform 000000602028 000400000007 R.X86_64_JUMP_SLO 00000000000000000 curl_easy_setopt + 000000000203 00000000007 R.X86_64_JUMP_SLO 00000000000000000 curl_easy_setopt + 000000000203 00000000007 R.X86_64_JUMP_SLO 0000000000000000 curl_easy_setapt + 0 0000000002038 000700000007 R.X86_64_JUMP_SLO 0000000000000000 curl_easy_setapt + 0

 The decoding of unwind sections for machine type Advanced Micro Devices X86-64 is not currently supported.
Histogram for `.gnu.hash' bucket list length (total of 3 buckets):

Length Number % of total Coverage
0 0 ( 0.0%)
1 1 ( 33.3%) 20.0%
2 2 ( 66.7%) 100.0%
 Version symbols section '.gnu.version' contains 14 entries:
Addr: 00000000000400514 Offset: 0x000514 Link: 5 (.dynsym)
000: 0 (*local*) 2 (CURL_GNUTLS_3) 0 (*local*)
004: 2 (CURL_GNUTLS_3) 0 (*local*) 3 (0.LBC_2.2.5) 0 (*local*)
008: 0 (*local*) 1 (*global*) 1 (*global*) 1 (*global*)
00c: 1 (*global*) 1 (*global*)
Version needs section '.gnu.version_r' contains 2 entries:
Addr: 0x00000000000400530 Offset: 0x000530 Link: 6 (.dynstr)
0000000: Version: 1 File: libc.so.6 Cnt: 1
0x0010: Name: GLIBC_22.5 Flags: none Version: 3
0x0020: Version: 1 File: libcurl-gnutls.so.4 Cnt: 1
0x0030: Name: CURL_GNUTLS_3 Flags: none Version: 2
Displaying notes found at file offset 0x00000254 with length 0x00000020:

Owner Data size Description NT_ONU_ABI_TAG (ABI version tag)
                                                                                                Description
NT_GNU_ABI_TAG (ABI version tag)
           OS: Linux, ABI: 2.6.24
 Displaying notes found at file offset 0x00000274 with length 0x00000024:
                                     Data size Description
0x00000014 NT_GNU_BUILD_ID (unique build ID bitstring)
      Owner
GNU
Build ID: 18ada6ba56c33dea575256ef63955a5Abe4a407

Dpate85@hrumil:-/dpate85/hk2/puzzless objdump 2

Usage: objdump <option(s) > <file(s)>
Display information from object <file(s)>.

At least one of the following switches must be given:

-a, --archive-headers of the section formation of the contents of the overall file header on the contents of the overall file header on the contents of the overall file header on the contents of the section headers of the section of the section headers of the section 
            Build TD: 18ada6ha56c33deac975256efe3955a54he4a407
        -G, --stabs
-W[lLiaprmfFsoRt] or
         Display DWARF info in the file
                                                                        DISPLAY DWARF INTO IN THE TIE
Display the contents of the symbol table(s)
Display the contents of the dynamic symbol table
Display the relocation entries in the file
Display the dynamic relocation entries in the file
      -t, --syms
-T, --dynamic-syms
-r, --reloc
-R, --dynamic-reloc
```

```
file format elf64-x86-64
Contents of the .eh frame section:
 00000000 000000000000014 00000000 CIE
    Version:
                                     1
"zR"
    Augmentation:
    Augmentation: "Z:
Code alignment factor: 1
Data alignment factor: -8
Return address column: 16
Augmentation data: 1b
    DW_CFA_def_cfa: r7 (rsp) ofs 8
DW_CFA_offset: r16 (rip) at cfa-8
DW_CFA_undefined: r16 (rip)
 00000018 00000000000014 0000001c FDE cie=00000000 pc=ffffffffffff58..ffffffffffffc82
    DW_CFA_nop
DW_CFA_nop
   DW_CFA_nop
DW_CFA_nop
DW_CFA_nop
DW_CFA_nop
DW_CFA_nop
 00000030 000000000000014 00000000 CIE
                                            1
"zR"
    Version:
Augmentation:
    Code alignment factor: 1
Data alignment factor: -8
Return address column: 16
    Augmentation data:
    DW_CFA_def_cfa: r7 (rsp) ofs 8
DW_CFA_offset: r16 (rip) at cfa-8
DW_CFA_nop
DW_CFA_nop
   OB000070 00000000000000001c 00000044 FDE cie=00000030 pc=fffffffffffffffd45..fffffffffffd46

DM_CFA_advance_loc: 1 to fffffffffffd46

DM_CFA_offset: 76 (rbp) at cfa=16

DM_CFA_advance_loc: 3 to ffffffffffffd49

DM_CFA_def_cfa=register: 76 (rbp)

DM_CFA_advance_loc: 1 to fffffffffffd49

DM_CFA_def_cfa=register: 76 (rbp)

DM_CFA_def_cfa: 77 (rsp) of 8

DM_CFA_nop

DM_CFA_nop

DM_CFA_nop

DM_CFA_nop
OBORO0090 000000000000000001 000000064 FDE cie=000000030 pc=ffffffffffffffd4b..ffffffffffffd4c
DM_CFA_def_cfa_offset: 16
DM_CFA_def_cfa_offset: 16
DM_CFA_def_cfa_epister: 16
DM_CFA_def_cfa_epister: 16
CFA_def_cfa_epister: 16
CFA_def_cfa_epister: 16
CFA_DM_CFA_def_cfa=ref_stepister: 16
DM_CFA_def_cfa=ref_stepister: 16
DM_CFA_def_cfa=ref_stepister: 16
DM_CFA_def_cfa=ref_stepister
DM_CFA_nop
DM_CFA_nop
DM_CFA_nop
DM_CFA_nop
00000010 000000000000010 00000024 FDE cie=00000030 pc=fffffffffffffddd..ffffffffffddd

DM_CFA_advance_loc: 1 to ffffffffffdde

DM_CFA_offset: 76 (rbp) at cfa-16

DM_CFA_dovance_loc: 3 to fffffffffffdd1

DM_CFA_dovance_loc: 3 to fffffffffffdd1

DM_CFA_def_cfa_register: 76 (rbp)

DM_CFA_def_cfa_register: 76 (rbp)

DM_CFA_def_cfa: 7 (rsp) ofs 8

DM_CFA_nop
    DW_CFA_nop
00000110 000000000000010 00000004 FDE cie=00000030 pc=fffffffffffffd63..ffffffffffd69
DW_CFA_advance_loc: 1 to ffffffffffd64
DW_CFA_dffset: 76 (rbp) at cfa-16
DW_CFA_dffset: 76 (rbp) at cfa-16
DW_CFA_advance_loc: 3 to fffffffffffd67
DW_CFA_def_cfa_register: 76 (rbp)
DW_CFA_ddvance_loc: 1 to fffffffffffd68
DW_CFA_def_cfa: 77 (rsp) ofs 8
DW_CFA_df_nop
DW_CFA_nop
    DW CFA non
    DW CFA nop
 0000130 00000000000000104 FDE cie=0
DW_CFA_davance_loc: 1 to fffffffffffffdda
DW_CFA_def_cfa_offset: 16
DW_CFA_doffset: r6 (rbp) at cfa=16
DW_CFA_davance_loc: 3 to ffffffffffffddd
DW_CFA_davance_loc: 1 to ffffffffffffdde
DW_CFA_davance_loc: 1 to ffffffffffffdde
DW_CFA_davance_loc: 1 to ffffffffffffdde
DW_CFA_davance_loc: 1 to ffffffffffffdde
```

```
DW CFA non
       DW_CFA_nop
00000150 00000000000001c 00000124 FDE cie=00000030 pc=fffffffffffffdf..fffffffffffff70
DW_CFA_advance_loc: 1 to fffffffffffd70
DW_CFA_dffset: 76 (rbp) at cfa-16
DW_CFA_dffset: 76 (rbp) at cfa-16
DW_CFA_advance_loc: 3 to ffffffffffffd73
DW_CFA_def_cfa_register: 76 (rbp)
DW_CFA_dvance_loc: 1 to fffffffffffd74
DW_CFA_def_cfa: 77 (rsp) ofs 8
DW_CFA_nop
DW_CFA_nop
       DW CFA nop
       DW CFA nop
00000170 000000000000010 00000144 FDE cie=00000030 pc=ffffffffffffff75..fffffffffffff76
DW_CFA_advance_loc: 1 to fffffffffff76
DW_CFA_dffset: 76 (rbp) at cfa-16
DW_CFA_dffset: 76 (rbp) at cfa-16
DW_CFA_advance_loc: 3 to ffffffffffff79
DW_CFA_def_cfa_register: 76 (rbp)
DW_CFA_ddvance_loc: 1 to fffffffffff79
DW_CFA_def_cfa: 77 (rsp) ofs 8
DW_CFA_dop
       DW_CFA_nop
DW_CFA_nop
OBMODITO 00000000000000001c 000001c4 FDE cie=000000030 pc=ffffffffffffd8d..ffffffffffd93
DM_CFA_advance_loc: 1 to fffffffffffd8e
DM_CFA_df_cfa_offset: 16 thp) at cfa=16
DM_CFA_df_set: 76 (rbp) at cfa=16
DM_CFA_advance_loc: 3 to ffffffffffffd91
DM_CFA_def_cfa_register: 76 (rbp)
DM_CFA_ddvance_loc: 1 to fffffffffffd92
DM_CFA_df_cfa: 77 (rsp) ofs 8
DM_CFA_nop
DM_CFA_nop
DM_CFA_nop
DM_CFA_nop
 OB000210 0000000000000001c 000001e4 FDE cie=000000030 pc=fffffffffffffff93..ffffffffffff99
UM_CFA_ddvance_loc: 1 to ffffffffffff94
UM_CFA_df'set: 76 (rbp) at cfa=16
UM_CFA_ddvance_loc: 3 to ffffffffffff97
UM_CFA_ddvance_loc: 3 to ffffffffffff97
UM_CFA_ddvance_loc: 1 to fffffffffff99
UM_CFA_ddvance_loc: 1 to fffffffffff98
UM_CFA_def_cfa: r7 (rsp) ofs 8
UM_CFA_nop
UM_CFA_nop
UM_CFA_nop
UM_CFA_nop
0000230 00000000000001c 00000204 FDE cie=00000030 pc=fffffffffffffd91
DM_CFA_ddvance_loc: 1 to fffffffffffd93
DM_CFA_dffset: 76 (rbp) at cfa-16
DM_CFA_dffset: 76 (rbp) at cfa-16
DM_CFA_ddvance_loc: 3 to ffffffffffd9d
DM_CFA_df_cfa_register: 76 (rbp)
DM_CFA_df_cfa_register: 76 (rbp)
DM_CFA_ddvance_loc: 1 to fffffffffffd9e
DM_CFA_df_cfa: 77 (rsp) ofs 8
DM_CFA_nop
DM_CFA_nop
DM_CFA_nop
DM_CFA_nop
0000250 000000000000001c 00000224 FDE cie=00000030 pc=ffffffffffffffffffd5
DM_CFA_ddvance_loc: 1 to fffffffffffda0
DM_CFA_dffset: 76 (rbp) at cfa-16
DM_CFA_dffset: 76 (rbp) at cfa-16
DM_CFA_ddvance_loc: 3 to fffffffffffda3
DM_CFA_dff_cfa_register: 76 (rbp)
DM_CFA_ddvance_loc: 1 to ffffffffffda4
DM_CFA_dff_cfa: 77 (rsp) ofs 8
DM_CFA_nop
DM_CFA_nop
DM_CFA_nop
DM_CFA_nop
00000270 000000000000001c 00000244 FDE cie=00000030 pc=ffffffffffffffda5..fffffffffffda6
DM_CFA_dovance_loc: 1 to ffffffffffda6
DM_CFA_doffset: 76 (rbp) at cfa-16
DM_CFA_dovance_loc: 3 to ffffffffffda9
DM_CFA_dovance_loc: 3 to fffffffffffda9
DM_CFA_dof_cfa_register: 76 (rbp)
DM_CFA_dovance_loc: 1 to fffffffffffda9
DM_CFA_dof_cfa: 77 (rsp) ofs 8
DM_CFA_dof_fa1
DM_CFA_nop
DM_CFA_nop
       DW CFA non
       DW_CFA_nop
00000200 00000000000001c 00000264 FDE cie=00000030 pc=fffffffffffffdab..ffffffffffffdbl DW_CFA_advance_loc: 1 to fffffffffffdac
DW_CFA_dff_set: 76 (rbp) at cfa-16
DW_CFA_dff_set: 76 (rbp) at cfa-16
DW_CFA_dvance_loc: 3 to fffffffffffdf
DW_CFA_def_cfa_register: 76 (rbp)
DW_CFA_def_cfa_register: 76 (rbp)
DW_CFA_def_cfa= 77 (rsp) ofs 8
DW_CFA_nop
       DW_CFA_nop
DW_CFA_nop
```

```
000002d0 00000000000001c 000002a4 FDE cie=00000030 pc=fffffffffffffffdb7..ffffffffffffdb8
DW_CFA_def_cfa_offset: 16
DW_CFA_def_cfa_effset: 16
DW_CFA_def_cfa_effset: 60
DW_CFA_def_cfa_effset: 60
DW_CFA_def_cfa_effset: 70
DW_CFA_def_cfa_effset: 70
DW_CFA_def_cfa_effsetset: 70
DW_CFA_def_cfa: 70
DW_CFA_Def_cfa.
DW_CFA_Affset.
               DW CFA non
               DW_CFA_nop
               DW_CFA_nop
  0000270 000000000000001c 000002c4 FDE cie=00000030 pc=ffffffffffffffdd..ffffffffffdds
DM_CFA_ddvance_loc: 1 to fffffffffffdb
DM_CFA_dffset: 76 (rbp) at cfa-16
DM_CFA_dffset: 76 (rbp) at cfa-16
DM_CFA_ddvance_loc: 3 to fffffffffffdc1
DM_CFA_def_cfa_register: 76 (rbp)
DM_CFA_ddvance_loc: 1 to ffffffffffdc2
DM_CFA_def_cfa: 77 (rsp) ofs 8
DM_CFA_nop
DM_CFA_nop
DM_CFA_nop
DM_CFA_nop
  0000310 00000000000001c 000002e4 FDE cie=00000030 pc=fffffffffffffdc3..fffffffffffdc9
DM_CFA_advance_loc: 1 to fffffffffffdc4
DM_CFA_dffset: 76 (rbp) at cfa-16
DM_CFA_dffset: 76 (rbp) at cfa-16
DM_CFA_dfset: 76 (rbp) at cfa-17
DM_CFA_df_cfa_register: 76 (rbp)
DM_CFA_df_cfa_register: 76 (rbp)
DM_CFA_df_cfa: 76 (rsp) of 8
DM_CFA_df_cfa: 77 (rsp) of 8
DM_CFA_nop
DM_CFA_nop
DM_CFA_nop
DM_CFA_nop
  0000330 000000000000001c 00000304 FDE cie=00000030 pc=ffffffffffffdc9..fffffffffffdca
DM_CFA_def_cfa_offset: 16
DM_CFA_def_cfa_offset: 16
DM_CFA_def_cfa_erset: 16
DM_CFA_def_cfa_register: 66 (rbp)
DM_CFA_def_cfa_register: 66 (rbp)
DM_CFA_def_cfa_register: 66 (rbp)
DM_CFA_def_cfa_register: 60 (rbp)
DM_CFA_nop
DM_CFA_nop
DM_CFA_nop
DM_CFA_nop
     OBOROUSD 0000000000000001 00000324 FDE cie=000000030 pc=fffffffffffffffffdd5
DW_CFA_ddvance_loc: 1 to fffffffffffdd0
DW_CFA_GfSet: 6( tp) at cfa=16
DW_CFA_ddvance_loc: 3 to fffffffffffdd3
DW_CFA_ddvance_loc: 3 to fffffffffffdd3
DW_CFA_ddvance_loc: 1 to ffffffffffdd4
DW_CFA_ddvance_loc: 1 to ffffffffffdd4
DW_CFA_ddvance_loc: 1 to ffffffffffdd4
DW_CFA_ddvance_loc: 1 to ffffffffffdd4
DW_CFA_nop
DW_CFA_nop
DW_CFA_nop
    00000370 0000000000000001c 00000344 FDE cie=00000030 pc=fffffffffffffffffffd5
DM_CFA_davance_loc: 1 to ffffffffffffd6
DM_CFA_dff_cfa_offset: 16
DM_CFA_dffset: 76 (rbp) at cfa-16
DM_CFA_dvance_loc: 3 to ffffffffffffdd9
DM_CFA_def_cfa_register: 76 (rbp)
DM_CFA_def_cfa_register: 76 (rbp)
DM_CFA_dvance_loc1: 116 to fffffffffffdd
DM_CFA_df_cfa_register: 77 (rsp) ofs 8
DM_CFA_nop
DM_CFA_nop
DW_CFA_nop
DW_CFA_nop
DW_CFA_nop
DW_CFA_nop
DW_CFA_nop
DW_CFA_davance_loc: 2 to fffffffffffesa
DW_CFA_davance_loc: 3 to ffffffffffffesb
DW_CFA_davance_loc: 5 to ffffffffffffffff
DW_CFA_davance_loc: 5 to fffffffffffffff
DW_CFA_davance_loc: 5 to fffffffffffffff
DW_CFA_def__cfa_offset: 74
DW_CFA_def__cfa_offset: 74
DW_CFA_def__cfa_offset: 74
DW_CFA_def__cfa_offset: 32
DW_CFA_davance_loc: 5 to fffffffffffff69
DW_CFA_davance_loc: 5 to fffffffffffff69
DW_CFA_def__cfa_offset: 32
DW_CFA_def__cfa_offset: 49
DW_CFA_def__cfa_offset: 49
DW_CFA_def__cfa_offset: 40
DW_CFA_def__cfa_offset: 48
DW_CFA_davance_loc: 8 to ffffffffffff69
DW_CFA_def__cfa_offset: 48
DW_CFA_davance_loc: 8 to ffffffffffff69
DW_CFA_def__cfa_offset: 48
DW_CFA_davance_loc: 8 to fffffffffff69
DW_CFA_def__cfa_offset: 48
DW_CFA_davance_loc: 8 to ffffffffffff69
DW_CFA_def__cfa_offset: 56
DW_CFA_def__cfa_offset: 56
DW_CFA_def__cfa_offset: 56
DW_CFA_davance_loc: 13 to fffffffffff69
DW_CFA_davance_loc: 14 to fffffffffff69
DW_CFA_davance_loc: 15 to fffffffffff69
DW_CFA_davance_loc: 2 to ffffffffff69
DW_CFA_davance_loc: 2 to fffffffff69
DW_CFA_davance_loc: 2 to fffffffff69
DW_CFA_davance_loc: 2 to fffffffff69
DW_CFA_davance_loc: 2 to f
     000003d8 000000000000014 000003ac FDE cie=00000030 pc=fffffffffffffec8..ffffffffffffffeca
            DW_CFA_nop
DW_CFA_nop
DW_CFA_nop
DW_CFA_nop
DW_CFA_nop
               DW CFA non
               DW_CFA_nop
    000003f0 ZERO terminator
```

Dpate85@Dhrumil:~/dpate85/hw2/puzzles\$ objdump -a 2

```
file format elf64-x86-64
        Dpate85@Dhrumil:~/dpate85/hw2/puzzles$ objdump 2
Usage: objdump <option(s)> <file(s)>.
At least one of the following switches must be given:
-a, -archive-headers
-f, -file-headers
-p, -private-neaders
-d, -disassemble
-d, -disassemble
-d, -disassemble-all
-5, -source
-s, -rull-contents
-g, -debugging
-e, -debugging-tags
-G, --stabs
-G| --stabs
-G
            Dpate85@Dhrumil:~/dpate85/hw2/puzzles$ objdump 2
                                -W[lLiaprmfFsoRt] or
                              -WilliaprmfFsORI or
-dwarf[=rawline,=decodedline,=info,=abbrev,=pubnames,=aranges,=macro,=frames,
=frames-interp,=str,=loc,=Ranges,=pubtypes,
=gdb_index,=trace_info,=trace_abbrev,=trace_aranges,
                                                                                          =addr,=cu_index]
                                                                                                                                                                                                                      Display DWARF info in the file
                                                                                                                                                                                                                Display DWARF info in the file
Display the contents of the symbol table(s)
Display the contents of the dynamic symbol table
Display the relocation entries in the file
Display the dynamic relocation entries in the file
Read options from <file>
Display this program's version number
List object formats and architectures supported
Display this information
                           -t, --syms
-T, --dynamic-syms
-r, --reloc
-R, --dynamic-reloc
                           @<file>
                           @<file>
-v, --version
-i, --info
-H, --help
            -H, --help Display this information Dpate85@Dhrumil:~/dpate85/hw2/puzzles$ objdump -s
| High | 
                                                            file format elf64-x86-64
```

```
H..].UH..].UH..]
.UH..].UH..].UH.
.].UH..].UH..].U
H..].UH..].UH..]
        400790 c3554889 e55dc355 4889e55d c3554889
        4007a0 e55dc355 4889e55d c3554889 e55dc355
        4007b0 4889e55d c3554889 e55dc355 4889e55d
       400700 48899504 (3554889 e55dc335 4889955d (3554889
400700 e55dc355 4889e55d c3554889 e55dc355
400700 4889955d (3554889 e55dc355
400700 4889955d (3554889 e55dc355 4889955d
400700 63554889 e55dc355 4889955d (3554889
400800 e54883ec 20e826fe ffff4889 45f84883
                                                                                                                                                                         .UH..].UH..].UH.
.].UH..].UH..].U
                                                                                                                                                                        AWA..AVI..AUI..A
        400890 544c8d25 68152000 55488d2d 68152000
4008a0 534c29e5 31db48c1 fd034883 ec08e84d
                                                                                                                                                                          TL.%h. .UH.-h. .
SL).1.H...H...M
        4008b0 fdffff48 85ed74le 0f1f8400 00000000
4008c0 4c89ea4c 89f64489 ff41ff14 dc4883c3
                                                                                                                                                                          ...H..t......
L..L..D..A...H..
                                                                                                                                                                          .H9.u.H...[]A\A]
A^A_.ff.....
        4008d0 014839eb 75ea4883 c4085b5d 415c415d
4008e0 415e415f c366662e 0f1f8400 00000000
        4008f0 f3c3
   400810 13c3
Contents of section .fini:
4008f4 4883ec08 4883c408 c3
H...H....
   400014 4003Ct00 4003C
                                                                                                                                                                         .@l.8A.0A.(B. B.
   400e18 00000000
Contents of section .init_array:
601e00 40074000 00000000
Contents of section .fini_array:
601e08 20074000 00000000
                                                                                                                                                                          @.@....
  Contents of Section .fini_array:
60e108 20074000 00000000

Contents of Section .jcr:
60e10 00000000 00000000

Contents of section
                                                                                                                                                                         .....
```

```
601ec8 0a000000 00000000 f4000000 00000000
  601ed8 0b000000 00000000 18000000 00000000
  601ee8 15000000 00000000 00000000 00000000
  601ef8 03000000 00000000 00206000 00000000
  601f08 02000000 00000000 78000000 00000000
  601f18 14000000 00000000 07000000 00000000
  601f28 17000000 00000000 88054000 00000000
  601f38 07000000 00000000 70054000 00000000
  601f48 08000000 00000000 18000000 00000000
  601f58 09000000 00000000 18000000 00000000
  601f68 feffff6f 00000000 30054000 00000000
  601f78 ffffff6f 00000000 02000000 00000000
  601f88 f0ffff6f 00000000 14054000 00000000
  601f98 00000000 00000000 00000000 00000000
  601fa8 00000000 00000000 00000000 00000000
  601fb8 00000000 00000000 00000000 00000000
  601fc8 00000000 00000000 00000000 00000000
  601fd8 00000000 00000000 00000000 00000000
  601fe8 00000000 00000000 00000000 00000000
 Contents of section .got: 601ff8 00000000 000000000
 602030 66064000 00000000 76064000 00000000 f.@....v.@.....
 Contents of section .data:
602040 00000000 00000000 00000000 ......
file format elf64-x86-64
 Disassembly of section .init:
0000000000400600 < init>:
400600: 48 83 ec 08
400604: 48 80 05 ed 19 20 00
40060b: 48 85 c0
40060e: 74 05
400610: e8 5b 00 00 00
400615: 48 83 c4 08
400619: c3
                                                       $0x8,%rsp
0x2019ed(%rip),%rax
%rax,%rax
400615 <_init+0x15>
400670 <__gmon_start__@plt>
$0x8,%rsp
                                               sub
mov
test
                                                                                     # 601ff8 <_fini+0x201704>
                                               je
callq
add
retq
 Disassembly of section .plt:
 0000000000400620 <curl_easy_init@plt-0x10>:
400620: ff 35 e2 19 20 00 pus
400626: ff 25 e4 19 20 00 jmm;
40062c: 0f 1f 40 00 nop
                                                       0x2019e2(%rip)
*0x2019e4(%rip)
0x0(%rax)
                                                                                 # 602008 <_fini+0x201714>
# 602010 <_fini+0x20171c>
 0000000000400630 <curl_easy_init@plt>:
400630: ff 25 e2 19 20 00
400636: 68 00 00 00 00
400636: e9 e0 ff ff ff
                                                        *0x2019e2(%rip)
                                                                                  # 602018 <_fini+0x201724>
                                                        $0x0
400620 <_init+0x20>
 0000000000400640 <curl_easy_perform@plt>:
400640: ff 25 da 19 20 00 j
400646: 68 01 00 00 0 p
40064b: e9 d0 ff ff ff j
                                                        *0x2019da(%rip)
                                                                                  # 602020 <_fini+0x20172c>
                                                        400620 < init+0x20>
 0000000000400650 <curl_easy_setopt@plt>:
400650: ff 25 d2 19 20 00
400656: 68 02 00 00 00
40065b: e9 c0 ff ff ff
                                                        *0x2019d2(%rip)
                                                                                  # 602028 < fini+0x201734>
                                                        400620 < init+0x20>
 *0x2019ca(%rip)
                                                                                  # 602030 < fini+0x20173c>
                                                        400620 < init+0x20>
 *0x2019c2(%rip)
                                                                                  # 602038 < fini+0x201744>
                                                pusha
                                                        400620 < init+0x20>
Disassembly of section .text:
 00000000000400680 <.text>:
   400680:
                   31 ed
49 89 d1
                                                        %ebp.%ebp
                                               mov
pop
mov
and
   400682:
                                                        %rdx,%r9
   400685:
                                                        %rsi
                   48 89 e2
   400686:
                                                        %rsp,%rdx
$0xffffffffffffff0,%rsp
                   48 83 e4 f0
   400689:
                                               push
push
mov
mov
mov
callq
    40068d:
    40068e:
                                                        $0x4008f0.%r8
    40068f:
                    49 c7 c0 f0 08 40 00
                   48 c7 c1 80 08 40 00
48 c7 c7 fd 07 40 00
e8 b7 ff ff ff
   400696:
                                                        $0x400880.%rcx
   40069d:
                                                        $0x4007fd.%rdi
                                                        400660 <__libc_start_main@plt>
   4006a4:
   4006a9:
                                               nopw
mov
push
sub
cmp
mov
ja
                   66 0f 1f 44 00 00
b8 57 20 60 00
   4006aa:
                                                        0x0(%rax,%rax,1)
$0x602057,%eax
   4006b0:
                                                        %rbp
$0x602050,%rax
   4006b5
                   48 2d 50 20 60 00
48 83 f8 0e
48 89 e5
77 02
   4006b6:
   4006bc
                                                        $0xe.%ra
   4006c0:
                                                        %rsp,%rbp
4006c7 < qmon start @plt+0x57>
   4006c3:
```

```
4006c5:
                                                                                                                                    %rbp
                                                                                                                pop rety mov test je pop mov push ssar mov mshr add sar pop mov test je pop mov test je pop mov test je pop mov mov jnopl cmpb jnopl push
4006c6:
4006c7:
                                                                                                                                    $0x0.%eax
 4006cc:
                                                                                                                                     %rax,%rax
4006c5 <__gmon_start__@plt+0x55>
 4006cf:
 4006d1:
                                                                                                                                    %rbp
$0x602050,%edi
 4006d2:
 4006d7:
                                                                                                                                    0x0(%rax)
 4006d9:
4006e0:
                                                                                                                                     $0x602050.%eax
4006e5:
                                                                                                                                    %rbp
$0x602050,%rax
4006e6:
4006ec:
                                                                                                                                    $0x3.%rax
                                                                                                                                    %rsp,%rbp
%rax,%rdx
$0x3f,%rdx
%rdx,%rax
4006f0:
4006f3:
4006f6:
4006fa:
4006fd:
                                                                                                                                     രാദം
400704 <__gmon_start__@plt+0x94>
400700:
400702:
                                                                                                                                    %rbp
                                       50
C3
ba 00 00 00 00
48 85 d2
74 f4
55
d
48 89 C6
bf 50 20 60 00
ff e2
07 15 11
55
48 89 e5
e8 7e ff ff ff
5d
C6 05 16 19 20 00 01
17 48 00
48 83 3d c8 16 20 00
400703:
                                         с3
400704:
                                                                                                                                    $0x0,%edx
400709:
                                                                                                                                    %rdx,%rdx
400702 <__gmon_start__@plt+0x92>
40070c:
40070e:
                                                                                                                                    %rbp
%rax,%rsi
40070f:
400712:
                                                                                                                                    $0x602050,%edi
400717:
                                                                                                                                    0x0(%rax)
400719:
                                                                                                                                    0x0(%rax)

$0x0,0x201929(%rip) # 602

40073a <__gmon_start__@plt+0xca>
                                                                                                                                                                                                                  # 602050 <_edata>
400720:
400727:
400729:
                                                                                                                                    %rbp
                                                                                                                                    %rsp,%rbp
4006b0 <__gmon_start__@plt+0x40>
40072a:
                                                                                                                mov
callq
40072d:
400732:
400733:
40073a:
                                                                                                                pop
movb
                                                                                                                                    %rbp
$0x1,0x201916(%rip) # 602050 <_edata>
                                                                                                                 repz retq
                                                                                                                                    0x0(%rax)
$0x0,0x2016c8(%rip)
40073c:
                                                                                                                nopl
                                                                                                                                                                                                    # 601e10 <_fini+0x20151c>
                                                                                                                cmpq
400714: 400756: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766: 400766
                                       400768 <__gmon_start__@plt+0xf8> 
$0x0,%eax
                                                                                                                jе
                                                                                                                mov
test
                                                                                                                                    %rax,%rax
400768 <__gmon_start__@plt+0xf8>
                                                                                                                je
push
                                                                                                                                    %rbp
$0x601e10,%edi
                                                                                                               mov
mov
callq
                                                                                                                                    %rsp,%rbp
*%rax
%rbp
4006e0 <__gmon_start__@plt+0x70>
                                                                                                               (%rax)
4006e0 < _gmon_start__@plt+0x70>
%rbp
%rsp,%rbp
%rsp,%rbp
                                                                                                                                   %rsp,%rbp
%rbp
                                                                                                                                    %rbp
%rsp,%rbp
%rbp
4007ba.
4007bc
4007bc.
400700
4007c1:
                                                                                                                                    %rbp
4007c2:
                                                                                                                                    %rsp,%rbp
%rbp
4007c5:
4007c6:
4007c7:
                                                                                                                                    %rbp
                                                                                                                                    %rsp,%rbp
%rbp
4007c8:
4007cb:
4007cc:
4007cd:
                                                                                                                                    %rbp
                                        48 89 e5
5d
c3
55
                                                                                                                                    %rsp,%rbp
%rbp
4007ce:
4007d1:
4007d2:
                                                                                                                                    %rbp
4007d3:
                                        48 89 e5
5d
c3
55
4007d4:
                                                                                                                                    %rsp,%rbp
%rbp
4007d7:
 4007d8:
                                                                                                                                    %rbp
 4007d9:
                                        48 89 e5
5d
c3
4007da:
                                                                                                                                    %rsp,%rbp
%rbp
4007dd:
4007de:
                                        55
48 89 e5
5d
c3
55
                                                                                                               push
mov
pop
retq
push
mov
pop
                                                                                                                                    %rbn
4007df:
                                                                                                                                    %rsp,%rbp
%rbp
4007e0:
4007e3:
4007e4:
                                                                                                                                    %rbn
4007e5:
                                        48 89 e5
5d
4007e6:
                                                                                                                                    %rsp,%rbp
%rbp
4007e9:
```

```
55
48 89 e5
5d
c3
                                                                                                                                                                                           %rbp
%rsp,%rbp
%rbp
                                                                                                                                                                push
mov
pop
retq
push
mov
pop
retq
push
mov
pop
retq
push
mov
sub
            4007eb:
            4007ec:
            4007ef:
            4007f0:
            4007f1:
                                                                                                                                                                                           %rbp
            4007f2
                                                                  48 89 e5
                                                                                                                                                                                            %rsp.%rbp
            4007f5
                                                                  5d
c3
                                                                                                                                                                                            %rbp
            4007f6:
            4007f7:
                                                                  55
48 89 e5
                                                                                                                                                                                           %rbp
            4007f8:
                                                                                                                                                                                            %rsp.%rbp
            4007fb:
                                                                                                                                                                                            %rbp
            4007fc:
            4007fd:
                                                              55
48 89 e5
48 83 ec 20
e8 26 fe ff ff
48 89 45 f8
48 83 7d f8 00
74 5a c7 45 ec 12 27 00 00
80 4d ec
48 8b 45 f8
a0 80 90 40 00
89 ce
48 89 c7
                                                                                                                                                                                            %rbp
            4007fe:
                                                                                                                                                                                            %rsp.%rbp
            400801:
                                                                                                                                                                                             $0x20,%rsp
            400805:
                                                                                                                                                                 callo
                                                                                                                                                                                             400630 <curl easy init@plt>
            40080a:
                                                                                                                                                                 mov
cmpq
                                                                                                                                                                                            %rax,-0x8(%rbp)
$0x0,-0x8(%rbp)
            40080e:
            400813:
                                                                                                                                                                 je
movl
                                                                                                                                                                                            40086f <__gmon_start__@plt+0x1ff>
$0x2712,-0x14(%rbp)
            400815:
            40081c:
                                                                                                                                                                 mov
                                                                                                                                                                                             -0x14(%rbp),%ecx
            40081f:
                                                                                                                                                                 mov
                                                                                                                                                                                            -0x8(%rbp),%rax
$0x400908,%edx
            400823:
                                                                                                                                                                 mov
                                                              Da WS W9 40 W9
89 C7
48 89 C7
88 00 00 00 00
e8 19 fe ff ff
c7 45 fe 34 00 00 00
8b 4d fe
48 8b 45 f8
ba 01 00 00 00
88 9 C7
ba 00 00 00 00
e8 7 fd ff
48 8b 45 ff
            400828:
                                                                                                                                                                 mov
                                                                                                                                                                                            %ecx,%esi
           40082a:
                                                                                                                                                                 mov
                                                                                                                                                                                            %rax,%rdi
                                                                                                                                                                                          %rax,%rd1
$0x0,%eax
400650 <curl_easy_setopt@plt>
50x34,-0x10(%rbp)
-0x10(%rbp),%eax
-0x8(%rbp),%rax
            40082d:
                                                                                                                                                                callq
movl
mov
           400832:
           400837:
           40083e
           400841
                                                                                                                                                                 mov
            400845:
                                                                                                                                                                                            $0x1,%edx
            40084a:
                                                                                                                                                                                             %ecx,%esi
            40084c
                                                                                                                                                                 mov
                                                                                                                                                                                             %rax,%rdi
                                                                                                                                                                                           $0x0,%eax
400650 <curl_easy_setopt@plt>
-0x8(%rbp),%rax
            40084f
                                                                                                                                                                 mov
callq
            400854:
            400859:
                                                                                                                                                                 mov
                                                                                                                                                                                          -0x8(%rDp),%rax
%rax,%rdi
400640 <curl_easy_perform@plt>
%eax,-0xc(%rbp)
50x0,%eax
400874 <_gmon_start_@plt+0x204>
50x1,%eax
            40085d:
                                                                                                                                                                 mov
callq
            400860:
            400865:
                                                                                                                                                                 mov
                                                                                                                                                                 mov
            400868:
            40086d:
                                                                  eb 05
b8 01 00 00 00
            40086f
                                                                                                                                                                 leaveg
            400874:
                                                              c9

c3

66 2e 0f 1f 84 00 00

00 00 00

41 57

41 89 ff

49 89 f6

41 55

49 89 d5

41 54

40 80 d5

40 80 d6

41 55

40 80 d6

40 80 d6

41 55

40 80 d6

4
            400875:
                                                                                                                                                                 retq
                                                                                                                                                                                       %cs:0x0(%rax,%rax,1)
            400876:
                                                                                                                                                                nopw
            40087d:
                                                                                                                                                                                           %r15
            400880:
                                                                                                                                                                push
                                                                                                                                                                                           %edi,%r15d
%r14
                                                                                                                                                                mov
push
                                                                                                                                                                                         %rsi,%r14
%rsi,%r14
%r13
                                                                                                                                                                 mov
push
            40088a:
                                                                                                                                                                                           %r13
%rdx,%r13
%r12
0x201568(%rip),%r12
                                                                                                                                                                mov
push
lea
push
lea
push
                                                             41 54
4c 8d 25 68 15 20 00
55
48 8d 2d 68 15 20 00
53
4c 29 e5
31 db
48 c1 fd 03
48 83 ec 08
e8 4d fd ff ff
48 85 ed
74 1e
0f 1f 84 00 00 00 00
4c 89 ea
4c 89 f6
44 89 ff
41 ff 14 dc
48 83 c3 01
48 83 c4 08
5b
5d
41 5c
41 5c
41 5c
41 5c
41 5c
41 5c
66 66 2e 0f 1f 84 00
00 00 00 00
55
66 66 2e 0f 1f 84 00
55
67 3c
58 ection .fini:
                                                                                                                                                                                                                                                                                                   # 601e00 <_fini+0x20150c>
                                                                                                                                                                                            %rbp
0x201568(%rip),%rbp
                                                                                                                                                                                                                                                                                                   # 601e08 <_fini+0x201514>
                                                                                                                                                                                            %rbx
%r12,%rbp
                                                                                                                                                                                           %11, %10)
%ebx,%ebx
$0x3,%rbp
$0x3,%rbp
$0x8,%rsp
400600 <_init>
%rbp,%rbp
400866 <_gmon_start__@plt+0x266>
0x0(%rax,%rax,1)
                                                                                                                                                                sub
callq
test
                                                                                                                                                                 je
nopl
                                                                                                                                                                                         mov
mov
callq
add
cmp
jne
add
pop
pop
pop
                                                                                                                                                                pop %r15
retq
data32 nopw %cs:0x0(%rax,%rax,1)
Disassembly of section .fini:
   Dpate85@Dhrumil:~/dpate85/hw2/puzzles$ readelf -s 3
    Symbol table '.dynsym' contains 11 entries:
                   | Not | Table | ".dynsym" | Contains | 11 entries: | Size | Type | Bind | Vis | Ndx | Name | Not | Not | Ndx | Name | Not | Ndx | Name | Not | Ndx | N
  Dpate85@hrumil:~/dpate85/hw2/puzzles$ vi howto.txt
Dpate85@hrumil:~/dpate85/hw2/puzzles$ vi howto.txt
Dpate85@hrumil:~/dpate85/hw2/puzzles$ readelf -s 3
  Ndx Name
                                                                                                                                                                                                                        NOX name
UND
UND puts@GLIBC_2.2.5 (2)
UND strlen@GLIBC_2.2.5 (2)
UND _stack_chk_fail@GLIBC_2.4 (3)
UND printf@GLIBC_2.2.5 (2)
                                                                                                                                                         GLOBAL DEFAULT UND printf@CLIBC_2.2.5 (2)
GLOBAL DEFAULT UND __ilbc_start_main@GLIBC_2.2.5 (2)
GLOBAL DEFAULT UND calloc@CLIBC_2.2.5 (2)
WEAK DEFAULT UND __mon_start_
GLOBAL DEFAULT UND __xstat@GLIBC_2.2.5 (2)
GLOBAL DEFAULT UND __stat@CLIBC_2.2.5 (2)
GLOBAL DEFAULT UND access@GLIBC_2.2.5 (2)
                                                                                                                  0 FUNC
0 FUNC
0 FUNC
0 NOTYPE
0 FUNC
0 FUNC
                                  000000000000000000
                                  000000000000000000
                                  000000000000000000
                                  000000000000000000
                                  000000000000000000
                                  00000000000000000
  Dpate85@Dhrumil:~/dpate85/hw2/puzzles$ ls
```

4007ea:

```
0 1 2 3 4 howto.txt secrets.txt

Dpate85@Dhrumil:-/dpate85/hw2/puzzles$ gdb 3

GNU gdb (Ubuntu 7.7.1-obuntu5-14.04.2) 7.7.1

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This GDB was configured as "x86_64-linux-gnu".

Type "show configuration" for configuration details.

For bug reporting instructions, please see:

<a href="http://www.gnu.org/software/gdb/bugs/">http://www.gnu.org/software/gdb/bugs/</a>

Find the GDB manual and other documentation resources online at:

<a href="http://www.gnu.org/software/gdb/bugs/">http://www.gnu.org/software/gdb/bugs/</a>
       ring the GUB manual and other documentation resources online at 
whttp://www.gnu.org/software/gdb/documentation/>.
For help, type "help".
Type "apropos word" to search for commands related to "word"...
Reading symbols from 3...(no debugging symbols found)...done.
(gdb) b 1
          (gdb) b 1
No symbol table is loaded. Use the "file" command.
(gdb) file 3
Reading symbols from 3...(no debugging symbols found)...done.
(gdb) disas
             No frame selected.
             (gdb) Quit
               (gdb) quit
          Dpate85@Dhrumil:~/dpate85/hw2/puzzles$ clear
       \label{limits} $$ \begin{array}{ll} Dpate85@Dhrumil:$\sim$/dpate85/hw2/puzzles$ strings $3 \mid grep '\txt' Dpate85@Dhrumil:$\sim$/dpate85/hw2/puzzles$ strings $3 \ libe4/ld-linux-$86-64.so.2 \ libc.so.6 \\ \end{array} $$ \begin{array}{ll} Dpate85@Dhrumil:$\sim$/dpate85/hw2/puzzles$ strings $3 \ libc.so.6 \\ \end{array} $$ \begin{array}{ll} Dpate85@Dhrumil:$\sim$/dpate85/hw2/puzzles$ strings $3 \ libc.so.6 \\ \end{array} $$ \begin{array}{ll} Dpate85@Dhrumil:$\sim$/dpate85/hw2/puzzles$ strings $3 \ libc.so.6 \\ \end{array} $$ \begin{array}{ll} Dpate85@Dhrumil:$\sim$/dpate85/hw2/puzzles$ strings $3 \ libc.so.6 \\ \end{array} $$ \begin{array}{ll} Dpate85@Dhrumil:$\sim$/dpate85/hw2/puzzles$ strings $3 \ libc.so.6 \\ \end{array} $$ \begin{array}{ll} Dpate85@Dhrumil:$\sim$/dpate85/hw2/puzzles$ strings $3 \ libc.so.6 \\ \end{array} $$ \begin{array}{ll} Dpate85@Dhrumil:$\sim$/dpate85/hw2/puzzles$ strings $3 \ libc.so.6 \\ \end{array} $$ \begin{array}{ll} Dpate85@Dhrumil:$\sim$/dpate85/hw2/puzzles$ strings $3 \ libc.so.6 \\ \end{array} $$ \begin{array}{ll} Dpate85@Dhrumil:$\sim$/dpate85/hw2/puzzles$ strings $3 \ libc.so.6 \\ \end{array} $$ \begin{array}{ll} Dpate85@Dhrumil:$\sim$/dpate85/hw2/puzzles$ strings $3 \ libc.so.6 \\ \end{array} $$ \begin{array}{ll} Dpate85@Dhrumil:$\sim$/dpate85/hw2/puzzles$ strings $3 \ libc.so.6 \\ \end{array} $$ \begin{array}{ll} Dpate85@Dhrumil:$\sim$/dpate85/hw2/puzzles$ strings $3 \ libc.so.6 \\ \end{array} $$ \begin{array}{ll} Dpate85@Dhrumil:$\sim$/dpate85/hw2/puzzles$ strings $3 \ libc.so.6 \\ \end{array} $$ \begin{array}{ll} Dpate85@Dhrumil:$\sim$/dpate85/hw2/puzzles$ strings $3 \ libc.so.6 \\ \end{array} $$ \begin{array}{ll} Dpate85@Dhrumil:$\sim$/dpate85/hw2/puzzles$ strings $3 \ libc.so.6 \\ \end{array} $$ \begin{array}{ll} Dpate85@Dhrumil:$\sim$/dpate85/hw2/puzzles$ strings $3 \ libc.so.6 \\ \end{array} $$ \begin{array}{ll} Dpate85Dhrumil:$\sim$/dpate85/hw2/puzzles$ strings $3 \ libc.so.6 \\ \end{array} $$ \begin{array}{ll} Dpate85Dhrumil:$\sim$/dpate85/hw2/puzzles$ strings $3 \ libc.so.6 \\ \end{array} $$ \begin{array}{ll} Dpate85Dhrumil:$\sim$/dpate85/hw2/puzzles$ strings $3 \ libc.so.6 \\ \end{array} $$ \begin{array}{ll} Dpate85Dhrumil:$\sim$/dpate85Dhrumil:$\sim$/dpate85/hw2/puzzles$ strings $3 \ libc.so.6 \\ \end{array} $$ \begin{array}{ll} Dpate85Dhrumil:$\sim$/dpate85Dhrumil:$\sim$/dpate85Dhrumil:$\sim$/dpate85Dhrumil:$\sim$/dpate85Dhrumil:$\sim$/dpate85Dhrumil:$\sim$/dpate85Dhrumil:$\sim$/dpate85Dhrumil:$\sim$/dpate85Dhrumil:$\sim$/dpate85Dhrumil:$\sim$/dpate85Dhrumil:$\sim$/dpate85Dhrumil:$\sim$/dpate85Dhrumil:$\sim$/dpate85Dhrumil:$\sim$/dpate85Dhrumil:$\sim$/dpate85D
          puts
     puts
__stack_chk_fail
printf
calloc
strlen
getlogin_r
     access
__libc_start_main
__xstat
__gmon_start__
GLIBC_2.4
GLIBC_2.2.5
dH30%(
          dH34%(
[]A\A]A^A
             iamspecial
23456789012345678901
     23456789012345678901
%%s%s
behold! I will only tell you the secret password if you enter the random number I just generated! you win! the secret is:
beelzebub
checking for the existence of a file with a special name...
correct file found.
check failed.
checking for appropriate access rights...
correct rights found.
;**35"
  checking for appropriate access rights...
correct rights found.
;#35"
ARDCFEGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/
GCC: (Ubuntu 4.8.4-2ubuntu1-14.04) 4.8.4
GCC: (Ubuntu 4.8.2-19ubuntu1) 4.8.2
.shstrtab
.interp
.note.ABI—tag
.note.gnu.build—id
.gnu.hash
.dynsym
.dynstr
.gnu.version
.gnu.version
.rela.dyn
.rela.blt
.init
.text
.fini
.rodata
.eh_frame
.init_array
.jcr
.dynamic
.got
.dynamic
.got
.got.plt
.jcr ... , dynamic ... , dynamic ... , got ... , dynamic ... , got ... , dynamic ... , got ... ,
     Dpate85@Dhrumil:~/dpate85/hw2/puzzles$ ./3 checking for the existence of a file with a special name... correct file found. checking for appropriate access rights... check failed.
Dpate85@hrumil:~/dpate85/hw2/puzzles$ strings 3 /lib64/ld-linux-x86-64.so.2 libc.so.6 puts __stack_chk_fail rintf calloc strlen getloning
          getlogin_r
access
       __libc_start_main
__xstat
     __xstat
__gmon_start__
GLIBC_2.4
GLIBC_2.2.5
dH34%(
[]A\A]A^A_
```

```
23456789012345678901
       NSYMS behold! I will only tell you the secret password if you enter the random number I just generated! you win! the secret is:
         beelzebub
checking for the existence of a file with a special name...
correct file found.
check failed.
checking for appropriate access rights...
correct rights found.
       :43s* | 183s* 
         .interp
.note.ABI-tag
.note.gnu.build-id
.gnu.hash
           .dynsym
.dynstr
           .gnu.version
           .gnu.version_u
           .rela.plt
.init
         .text
.fini
           .rodata
           .eh_frame_hdr
.eh_frame
         .init_array
.fini_array
           .jcr
.dynamic
           .got
.got.plt
.data
 .uss
.comment
.pgate85@Dhrumil:~/dpate85/hw2/puzzles$ vi iamspecial
.pgate85@Dhrumil:~/dpate85/hw2/puzzles$ ./3
.checking for the existence of a file with a special name...
.correct file found.
.checking for appropriate access rights...
.check failed.
.pgate85@Dhrumil:~/dpate85/hw2/puzzles$ vi iamspecial
.pgate85@Dhrumil:~/dpate85/hw2/puzzles$ vi iamspecial
.pgate85@Dhrumil:~/dpate85/hw2/puzzles$ ./3
.checking for the existence of a file with a special name...
.correct file found.
.checking parporpriate access rights...
.check failed
.pgate85@Dhrumil:~/dpate85/hw2/puzzles$ strings 3
.lib64/ld-linux~x86-64.so.2
.libc.so.6
.pus
           .bss
   libc.so.6
puts
_stack_chk_fail
printf
calloc
strlen
getlogin_r
access
_libc_start_main
_xstat
_gmon_start_
GLIBC_2.4
GLIBC_2.5
dH34%[
I]A\A]A^A_
iamspecial
GLIBC_2.2.5
dr34%[
[]ANA]A^A
Iamspecial
23456789912345678901
%s%s
behold! I will only tell you the secret password if you enter the random number I just generated!
you win! the secret is:
beelzebub
checking for the existence of a file with a special name...
correct file found.
check failed.
checking for appropriate access rights...
correct rights found.
338"
ABCOBFGHIJKLMNOPORSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/
GCC: (Ubuntu 4.8.2-ubuntu1-14.04) 4.8.4
GCC: (Ubuntu 4.8.2-ubuntu1) 4.8.2
.shstrtab
.interp
.note.ABI-tag
.note.gnu.build-id
.gnu.hash
.dynsym
.dynstr
.gnu.version-
.gnu.version-
.rela.dyn
.rela.plt
.init
.text
.fini
.rodata
.eh_frame
.init_array
.jcr
.dynamic
.got
.got.plt
.data
.bss
.comment
Dpate85g0hrumil:~/dpate85/hw2/puzzles$ vi iamspecial
     .comment
Dpate85@Dhrumil:~/dpate85/hw2/puzzles$ vi iamspecial
Dpate85@Dhrumil:~/dpate85/hw2/puzzles$ vi iamspecial
Dpate85@Dhrumil:~/dpate85/hw2/puzzles$ vi iamspecial
Dpate85@Dhrumil:~/dpate85/hw2/puzzles$ ./3
checking for the existence of a file with a special name...
correct file found.
checking for appropriate access rights...
check failed.
     check failed.

Dpate85@Dhrumil:~/dpate85/hw2/puzzles$ vi iamspecial
Dpate85@Dhrumil:~/dpate85/hw2/puzzles$ ./3
checking for the existence of a file with a special name...
correct file found.
checking for appropriate access rights...
check failed.
Dpate8KaDhrumil...
         Check Tailed.

Dpate85@Dhrumil:~/dpate85/hw2/puzzles$ vi iamspecial
     Dpate85@hrumii:-/dpate85/hw2/puz2less vi anspecial
Dpate85@hrumii:-/dpate85/hw2/puz2less v./3
checking for the existence of a file with a special name...
correct file found.
checking for appropriate access rights...
check failed.
       check failed.
Dpate85@hrumil:~/dpate85/hw2/puzzles$ vi iamspecial
Dpate85@hrumil:~/dpate85/hw2/puzzles$ ./3
checking for the existence of a file with a special name...
correct file found.
```

```
checking for appropriate access rights...
check failed.
cneck faled.

Dpate85@Dhrumil:~/dpate85/hw2/puzzles$ vi iamspecial
Dpate85@Dhrumil:~/dpate85/hw2/puzzles$ ./3
checking for the existence of a file with a special name...
correct file found.
 checking for appropriate access rights...
check failed.
check failed.

Dpate85@Dhrumil:~/dpate85/hw2/puzzles$ vi imspecial

Dpate85@Dhrumil:~/dpate85/hw2/puzzles$ ./3

checking for the existence of a file with a special name...

correct file found.

checking for appropriate access rights...

check failed.

Dpate8Canh-waith...
check failed.
Dpate85gDhrumil:~/dpate85/hw2/puzzles$ vi iamspecial
Dpate85gDhrumil:~/dpate85/hw2/puzzles$ ./3
checking for the existence of a file with a special name...
correct file found.
 checking for appropriate access rights...
 check failed.
Dpate85@Dhrumil:~/dpate85/hw2/puzzles$ vi_iamspecial
Dpate85@hrrumil:-/dpate85/hw2/puzzles$ ./3
checking for the existence of a file with a special name...
correct file found.
checking for appropriate access rights...
 check failed.
Dpate85@Dhrumil:~/dpate85/hw2/puzzles$ readelf -s 3
Symbol table '.dynsym' contains 11 entries:

        Not table '.dynsym' contains 11 ent

        Um: Value
        Size Type

        0: 0000000000000000
        0 NOTYPE

        1: 000000000000000
        0 FUNC

        2: 00000000000000
        0 FUNC

        3: 00000000000000
        0 FUNC

        5: 000000000000000
        0 FUNC

        6: 000000000000000
        0 FUNC

        7: 000000000000000
        0 FUNC

        7: 0000000000000000
        0 FUNC

        8: 000000000000000
        0 FUNC

        9: 000000000000000
        0 FUNC

        9: 000000000000000
        0 FUNC

        9: 000000000000000
        0 FUNC

        0: 000000000000000
        0 FUNC

        0: 0000000000000000
        0 FUNC

                                                                            tries:
Bind Vis
LOCAL DEFAULT
GLOBAL DEFAULT
WEAK DEFAULT
                                                                                                               Ndx Name
                                                                                                              UND puts@GLIBC_2.2.5 (2)
UND strlengGLIBE_2.2.5 (2)
UND _stack_chk_fail@GLIBC_2.4 (3)
UND _printf@GLIBC_2.2.5 (2)
                                                                                                               UND __libc_start_main@GLIBC_2.2.5 (2)
UND calloc@GLIBC_2.2.5 (2)
                                                                              WEAK DEFAULT UND __gmon_start___(2)
GLOBAL DEFAULT UND __state@GLIBC_2.2.5 (2)
GLOBAL DEFAULT UND getlogin_r@GLIBC_2.2.5 (2)
GLOBAL DEFAULT UND access@GLIBC_2.2.5 (2)
                00000000000000000
                                                           0 FUNC
Dpate85@Dhrumil:~/dpate85/hw2/puzzles$ objdump -S 3
            file format elf64-x86-64
Disassembly of section .init:
 00000000000400598 <.init>:
    400598:
40059c:
4005a3:
4005a6:
4005a8:
4005ad:
4005b1:
                               8 <.1nit>:
48 83 ec 08
48 8b 05 55 1a 20 00
48 85 c0
74 05
e8 83 00 00 00
48 83 c4 08
c3
                                                                                               $0x8,%rsp
0x201a55(%rip),%rax
                                                                                                                                                  # 601ff8 <access@plt+0x201998>
                                                                                 mov
test
                                                                                               %rax,%rax
4005ad <puts@plt-0x23>
400630 <__gmon_start__@plt>
$0x8,%rsp
                                                                                 je
callq
                                                                                 add
retq
Disassembly of section .plt:
 00000000004005c0 <puts@plt=0x10>:
4005c0: ff 35 42 1a 20 00
4005c6: ff 25 44 1a 20 00
4005cc: 0f 1f 40 00
                                                                                              0x201a42(%rip)
*0x201a44(%rip)
0x0(%rax)
                                                                                                                                           # 602008 <access@plt+0x2019a8>
# 602010 <access@plt+0x2019b0>
                                                                                 jmpq
nopl
 00000000004005d0 <puts@plt>:
4005d0: ff 25 42 1a 20 00
4005d6: 68 00 00 00 00
4005db: e9 e0 ff ff ff
                                                                                                *0x201a42(%rip)
                                                                                                                                             # 602018 <access@plt+0x2019b8>
                                                                                               $0x0
4005c0 <puts@plt-0x10>
 00000000004005e0 <strlen@plt>:
4005e0: ff 25 3a 1a 20 00
4005e6: 68 01 00 00 00
4005eb: e9 d0 ff ff ff
                                                                                               *0x201a3a(%rip)
$0x1
4005c0 <puts@plt-0x10>
                                                                                                                                             # 602020 <access@plt+0x2019c0>
 00000000004005f0 <__stack_chk_fail@plt>
4005f0: ff 25 32 1a 20 00
4005f6: 68 02 00 00 00
4005fb: e9 c0 ff ff ff
                                                                                                *0x201a32(%rip)
                                                                                                                                             # 602028 <access@plt+0x2019c8>
                                                                                                $0x2
4005c0 <puts@plt-0x10>
 *0x201a2a(%rip)
$0x3
4005c0 <puts@plt-0x10>
                                                                                                                                             # 602030 <access@plt+0x2019d0>
 0000000000400610 <__libc_start_main@p
400610: ff 25 22 1a 20 00
400616: 68 04 00 00 00
40061b: e9 a0 ff ff ff
                                                                                                *0x201a22(%rip)
                                                                                                                                             # 602038 <access@plt+0x2019d8>
                                                                                               *0x201a22(3)1p,
$0x4
4005c0 <puts@plt-0x10>
 000000000400620 <calloc@plt>:
400620: ff 25 1a 1a 20 00
400626: 68 05 00 00 00
40062b: e9 90 ff ff ff
                                                                                                *0x201a1a(%rip)
                                                                                                                                             # 602040 <access@plt+0x2019e0>
                                                                                               4005c0 <puts@plt-0x10>
*0x201a12(%rip)
                                                                                                                                             # 602048 <access@plt+0x2019e8>
                                                                                               $0x6
4005c0 <puts@plt-0x10>
*0x201a0a(%rip)
                                                                                                                                             # 602050 <access@plt+0x2019f0>
                                                                                               4005c0 <puts@plt-0x10>
*0x201a02(%rip)
                                                                                                                                             # 602058 <access@plt+0x2019f8>
                                                                                 pushq
jmpq
                                                                                               4005c0 <nuts@nlt=0x10>
 0000000000400660 <access@plt>:
                               ff 25 fa 19 20 00
68 09 00 00 00
e9 50 ff ff ff
     400660:
                                                                                 impa
                                                                                               *0x2019fa(%rip)
                                                                                                                                            # 602060 <access@plt+0x201a00>
     400666:
                                                                                 pushq
jmpq
                                                                                               4005c0 <puts@plt-0x10>
    40066b:
Disassembly of section .text:
00000000000400670 <.text>:
                                                                                 xor
mov
pop
mov
and
    400670:
                                31 ed
49 89 d1
                                                                                               %ebp.%ebp
    400672:
                                                                                               %rdx,%r9
     400675:
                                                                                               %rsi
                                 48 89 e2
     400676:
                                                                                                %rsp,%rdx
$0xffffffffffffff0,%rsp
                                48 83 e4 f0
     400679:
                                                                                 push
push
mov
mov
callq
     40067d:
     40067e:
                                                                                               %rsp
$0x400ba0,%r8
     40067f:
                                 49 c7 c0 a0 0b 40 00
                                48 c7 c1 30 0b 40 00
48 c7 c7 5d 07 40 00
e8 77 ff ff ff
     400686:
                                                                                               $0x400b30.%rcx
     40068d:
                                                                                               $0x40075d,%rdi
400610 <__libc_start_main@plt>
     400694:
     400699
                               66 0f 1f 44 00 00
b8 17 21 60 00
55
                                                                                 h1t
                                                                                 nopw
mov
push
sub
cmp
mov
                                                                                               0x0(%rax,%rax,1)
$0x602117,%eax
%rbp
$0x602110,%rax
     40069a:
     4006a0:
     4006a5:
                                48 2d 10 21 60 00
48 83 f8 0e
48 89 e5
     4006a6:
     4006ac:
                                                                                               $0xe,%rax
%rsp,%rbp
```

4006b0:

```
4006b3:
                                    77 02
                                                                                                                     4006b7 <access@plt+0x57>
                                                                                                   ja
pop
retq
mov
test
je
pop
mov
jmpq
nopl
mov
push
sub
sar
                                    77 62
5d
c3
b8 00 00 00 00
4006b5:
4006b6:
4006b7:
                                                                                                                     $0x0.%eax
                                   b8 00 00 00 00

48 85 c0

74 f4

5d

bf 10 21 60 00

ff e0

0f 1f 80 00 00 00 00

b8 10 21 60 00

55
4006bc
                                                                                                                      4006b5 <access@plt+0x55>
4006bf:
4006c1:
                                                                                                                      %rbp
$0x602110,%edi
4006c2:
4006c7:
4006c9:
                                                                                                                     0x0(%rax)
4006d0:
                                                                                                                      $0x602110.%eax
                                  b8 10 21 60 00 555 48 2d 10 21 60 00 48 c1 f8 03 48 99 55 48 89 c2 48 c1 ea 3f 48 01 f8 75 02 5d c3
4006d5:
                                                                                                                      %rbp
$0x602110,%rax
4006d6:
4006dc:
                                                                                                                     $0x3.%rax
4006e0:
                                                                                                                     %rsp,%rbp
%rax,%rdx
4006e3:
4006e6:
                                                                                                                     $0x3f.%rdx
                                                                                                   add
sar
jne
                                                                                                                     %rdx.%rax
4006ea:
4006ed:
4006f0:
                                                                                                                      4006f4 <access@plt+0x94>
                                                                                                   pop
retq
mov
test
je
4006f2:
                                                                                                                     %rbp
4006f3:
                                    с3
4006f4:
                                    ba 00 00 00 00
                                                                                                                    $0x0,%edx
4006f9:
                                    48 85 d2
74 f4
                                                                                                                     %rdx,%rdx
4006f2 <access@plt+0x92>
                                  74 d 4

48 89 c6

48 89 c6

bf 10 21 60 00

ff e2 7

67 18 00 00 00 00 00

75 11

48 89 e5

48 89 e5

48 7e ff ff ff

5d

66 05 e2 19 20 00 01

f3 c3

67 14 40 00

48 83 3d e8 16 20 00

00
4006fc:
4006fe:
                                                                                                   pop
mov
mov
jmpq
nopl
cmpb
jne
push
                                                                                                                     %rbp
4006ff:
400702:
                                                                                                                     $0x602110,%edi
400707:
                                                                                                                      *%rdx
                                                                                                                     0x0(%rax)
400709:
                                                                                                                     0x9(%rax)
$0x0,0x2019f5(%rip) # 60210c <access@plt+0x201aac>
40072a <access@plt+0xca>
400710:
400717:
                                                                                                                    %rbp
%rsp,%rbp
4006a0 <access@plt+0x40>
400719:
40071a:
                                                                                                   mov
callq
40071d:
400722:
                                                                                                   pop
movb
                                                                                                                     %rbp
$0x1,0x2019e2(%rip)
                                                                                                                                                                                        # 60210c <access@plt+0x201aac>
400723:
                                                                                                   repz retq
nopl 0x0(%rax)
cmpq $0x0,0x2016e8(%rip)
40072a:
40072c:
                                                                                                                                                                                         # 601e20 <access@plt+0x2017c0>
400730:
                                                                                                   cmpq
                                   74 1e
b8 00 00 00 00
74 17
74 14
                                                                                                                     400758 <access@plt+0xf8>
400738:
40073a:
                                                                                                   test
40073f:
                                                                                                                     %rax,%rax
400758 <access@plt+0xf8>
400742:
                                  push
400744:
                                                                                                                     %rbp
$0x601e20,%edi
400745:
                                                                                                   mov
                                                                                                                    %rsp,%rbp
*%rax
%rbp
4006d0 <access@plt+0x70>
40074a:
                                                                                                   mov
callq
400746: 400756: 400756: 400756: 400756: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758: 400758
                                                                                                   pop
                                                                                                   jmpq
nopl
                                                                                                                     (%rax)
4006d0 <access@plt+0x70>
                                                                                                   jmpq
push
                                                                                                                   mov
sub
                                                                                                   mov
callq
                                                                                                                                                                                          # 602090 <access@plt+0x201a30>
                                                                                                   mov
lea
                                                                                                   mov
callq
mov
mov
callq
cmp
je
jmp
                                                                                                                                                                                        # 602090 <access@plt+0x201a30>
                                                                                                   # 602098 <access@plt+0x201a38>
                                                                                                                                                                                          # 6020b8 <access@plt+0x201a58>
# 6020a0 <access@plt+0x201a40>
                                  400821
                                                                                                                    %rbp
%rsp,%rbp
%rbx
400822
400825
                                                                                                                    %rbx
$0x438,%rsp
%rdi,-0x438(%rbp)
%fs:0x28,%rax
400826
400824
400834
40083h
                                                                                                   mov
xor
lea
mov
mov
400834
                                                                                                                     %ray -0x18(%rhn)
400841
                                                                                                                      %eax,%eax
-0x420(%rbp).%rax
400843:
40084a:
                                                                                                                    $0x400,%esi

%rax,%rdi

400650 <getlogin_r@plt>

$0x0,-0x42c(%rbp)
40084f:
400852
                                                                                                   calla
400857:
40085e:
                                                                                                                    4008a1 <access@plt+0x241>
-0x42c(%rbp),%eax
400861:
                                                                                                   jmp
mov
400863:
                                   48 98
0f b6 94 05 e0 fb ff
ff
400869:
                                                                                                   clta
                                                                                                   movzbl -0x420(%rbp.%rax.1).%edx
40086b:
400872:
                                    8b 85 d4 fb ff ff
                                                                                                                     -0x42c(%rbp).%eax
400873:
                                                                                                  movslq %eax,%rcx
mov -0x438(%rbp),%eax
mov -0x438(%rbp),%rax
add %rcx,%rax
                                   8b 85 d4 fb ff ff
48 63 c8
48 8b 85 c8 fb ff ff
48 01 c8
0f b6 00
31 c2
8b 85 d4 fb ff ff
400879:
40087c:
                                                                                                   add %rcx,%rax
movzbl (%rax),%eax
xor %eax,%edx
mov -0x42c(%rbp),%eax
400883:
400886:
400889:
40088b:
400891:
                                   48 98
88 94 05 e0 fb ff ff
                                                                                                   clta
                                                                                                                    %dl,-0x420(%rbp,%rax,1)
400893:
                                   88 94 05 e0 fb ff ff
83 85 d4 fb ff ff 01
8b 85 d4 fb ff ff
48 63 d8
48 8d 85 e0 fb ff ff
48 89 c7
e8 27 fd ff ff
48 39 c3
                                                                                                   addl $0x1,-0x42c(%rbp)
mov -0x42c(%rbp),%eax
40089a:
                                                                                                   4008a1:
4008a7:
4008aa:
                                                                                                   mov %rax,%rdi
callq 4005e0 <strlen@plt>
cmp %rax,%rbx
4008b1:
4008b4:
```

4008b9:

```
72 a5
8b 85 d4 fb ff ff
48 63 c8
48 8d 95 d8 fb ff ff
48 8d 85 e0 fb ff ff
                                                                                                                                                                                                                                             jb
mov
movslq
lea
lea
mov
mov
callq
4008bc:
                                                                                                                                                                                                                                                                                          400863 <access@plt+0x203>
 4008be:
                                                                                                                                                                                                                                                                                            -0x42c(%rbp),%eax
 4008c4:
                                                                                                                                                                                                                                                                                        %eax,%rcx
-0x428(%rbp),%rdx
 4008c7:
 4008ce:
                                                                                                                                                                                                                                                                                            -0x420(%rbp),%rax
                                                                                     48 89 c7
48 89 c7
48 89 c7
48 1e 00 00 00
48 8b 75 e8
64 48 33 34 25 28 00
 4008d5:
                                                                                                                                                                                                                                                                                          %rcx.%rsi
 4008d8:
                                                                                                                                                                                                                                                                                            %rax.%rdi
                                                                                                                                                                                                                                                                                        4008fe <access@plt+0x29e>
-0x18(%rbp),%rsi
%fs:0x28,%rsi
 4008db:
 4008e0:
                                                                                                                                                                                                                                               mov
xor
 4008e4:
                                                                                     64 48 33 34 25 28 00
00 00
74 05
e8 fc fc ff ff
48 81 c4 38 04 00 00
5b
5d
 4008eb:
                                                                                                                                                                                                                                                                                        4008f4 <access@plt+0x294>
4005f0 <__stack_chk_fail@plt>
$0x438,%rsp
 4008ed:
                                                                                                                                                                                                                                               je
callq
 4008ef:
                                                                                                                                                                                                                                               add
 4008f4:
                                                                                                                                                                                                                                             pop
pop
retq
4008fb:
                                                                                                                                                                                                                                                                                          %rbx
 4008fc:
                                                                                                                                                                                                                                                                                          %rbp
4008fd:
                                                                                     c3
55
48 89 e5
48 83 ec 40
48 89 7d d8
48 89 75 d0
48 89 55 c8
48 8b 45 d0
48 83 c0 02
                                                                                                                                                                                                                                                                                        %rbp
%rsp,%rbp
$0x40,%rsp
%rdi,-0x28(%rbp)
%rsi,-0x30(%rbp)
%rdx,-0x38(%rbp)
                                                                                                                                                                                                                                             push
mov
sub
4008fe:
4008ff:
400902:
400906:
40090a:
                                                                                                                                                                                                                                               mov
40090e:
                                                                                                                                                                                                                                               mov
400912:
                                                                                                                                                                                                                                                                                            -0x30(%rbp),%rax
400916:
                                                                                                                                                                                                                                               add
                                                                                                                                                                                                                                                                                          $0x2,%rax
                                                                                    48 Ba 60 02
48 ba ab aa aa aa aa
aa aa aa
48 f7 e2
48 89 d0
48 d1 e8
48 8d 14 85 00 00 00
                                                                                                                                                                                                                                             movabs $0xaaaaaaaaaaaaaab,%rdx
40091a:
400921:
400924:
                                                                                                                                                                                                                                               mul
                                                                                                                                                                                                                                                                                        %rdx
%rdx,%rax
400927:
40092a:
                                                                                                                                                                                                                                                                                        0x0(,%rax,4),%rdx
                                                                                                                                                                                                                                               lea
40092d:
                                                                                400934:
                                                                                                                                                                                                                                                                                              -0x38(%rbp),%rax
400935:
                                                                                                                                                                                                                                               mov
400939:
                                                                                                                                                                                                                                                                                          %rdx,(%rax)
-0x38(%rbp),%rax
40093c:
                                                                                                                                                                                                                                               mov
400940:
                                                                                                                                                                                                                                               mov
                                                                                                                                                                                                                                                                                            (%rax),%rax
$0x1,%esi
400943:
                                                                                                                                                                                                                                               mov
                                                                                                                                                                                                                                                                                        $081, %e51

%rax,%rdi

400620 <calloc@plt>

%rax,-0x8(%rbp)

$0x0,-0x8(%rbp)

400965 <access@plt+0x305>
400948:
                                                                                                                                                                                                                                               mov
callq
40094b:
                                                                                                                                                                                                                                             mov
cmpq
jne
400950:
400954:
400959:
                                                                                                                                                                                                                                                                                        $0x0,%eax
400b25 <access@plt+0x4c5>
$0x0,-0x20(%rbp)
$0x0,-0x1c(%rbp)
40095b:
                                                                                                                                                                                                                                             jmpq
movl
movl
jmpq
mov
cltq
400960:
400965:
40096c:
                                                                                                                                                                                                                                                                                          400ab3 <access@plt+0x453>
-0x20(%rbp),%eax
 400973:
 400978:
                                                                                                                                                                                                                                                                                     -0x20(%rbp), %eax
-0x30(%rbp), %eax
400990 <access@plt+0x33e>
-0x20(%rbp), %eax
%edx, -0x20(%rbp)
%eax, %rdx
-0x28(%rbp), %rax
%rdx, %rax
(%rax), %eax
%alx, %eax
40933 <access@plt+0x343>
50x0, %eax
%eax, -0x20
%eax, -0x20
%eax, -0x20
%eax, -0x20
%eax
-0x20(%rbp), %eax
-0x20(%rbp), %eax
 40097b:
                                                                                                                                                                                                                                             cmp
jae
mov
lea
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480916
                                                                                                                                                                                                                                               mov
movslq
                                                                                                                                                                                                                                               mov
add
                                                                                                                                                                                                                                             movzbl
movzbl
                                                                                                                                                                                                                                             jmp
mov
mov
                                                                                                                                                                                                                                        -0x20(%rbp),%eax

cltq
-0x30(%rbp),%eax

jae
-0x20(%rbp),%eax

lea
-0x20(%rbp),%eax

lea
-0x20(%rbp),%eax

dea
-0x20(%rbp),%eax

dea
-0x28(%rbp),%rax

dea
-0x28(%rbp),%rax

dea
-0x28(%rbp),%rax

dea
-0x28(%rbp),%rax

dea
-0x20(%rbp),%eax

dea
 400a26
 400a2a
 400a2d
 400a30:
 400a33:
 400a36:
 400a38:
 400a3f:
                                                                                       88 02
                                                                                     88 02
8b 45 e4
8d 50 01
89 55 e4
 400a41:
 400a44:
 400a47:
 400a4a:
                                                                                       48 63 d0
                                                                                                                                                                                                                                 ., wrdx
..., wrdx
..., wrdx;
...,
 400a4d:
                                                                                       48 8b 45 f8
 400a51:
                                                                                       48 01 c2
8b 45 f4
 400a54:
                                                                                       c1 e8 0c
83 e0 3f
89 c0
0f b6 80 c0 20 60 00
 400a57:
 400a5a:
 400a5d:
 400a5f:
                                                                                       88 02
 400a66:
                                                                                     88 02
8b 45 e4
8d 50 01
89 55 e4
                                                                                                                                                                                                                                        -muv -0x1c(%rbp),%eax
lea 0x1(%rax),%edx
mov %edx,-0x1c(%rbp)
movslq %eax,%rdx
mov -0x8(%rbp),%rax
add %rax,%rdx
 400a68:
 400a6b:
 400a6e:
                                                                                    89 55 e4
48 63 d0
48 8b 45 f8
48 01 c2
8b 45 f4
c1 e8 06
83 e0 3f
89 c0
400a71:
 400a74:
 400a78:
                                                                                                                                                                                                                                                                                          %rax,%rdx
-0xc(%rbp),%eax
400a7h:
                                                                                                                                                                                                                                               mov
                                                                                                                                                                                                                                                                                        $0x6,%eax
$0x3f,%eax
%eax,%eax
400a7e:
400a81:
                                                                                                                                                                                                                                               and
400a84:
```

```
400a86:
                                                                                             0f b6 80 c0 20 60 00
                                                                                                                                                                                                                                  movzbl 0x6020c0(%rax).%eax
                                                                                           88 02
8b 45 e4
8d 50 01
89 55 e4
                 400a8d:
                                                                                                                                                                                                                                                                           %al,(%rdx)
-0x1c(%rbp),%eax
                 400a8f:
                 400a92:
                                                                                                                                                                                                                                                                         0x1(%rax),%edx
%edx,-0x1c(%rbp)
                 400a95:
                 400a98:
                                                                                             48 63 d0
48 8b 45 f8
                                                                                                                                                                                                                                                                         %eax,%rdx
                                                                                                                                                                                                                                                                            -0x8(%rbp).%rax
                 400a9b
                                                                                           48 01 c2
8b 45 f4
83 e0 3f
                                                                                                                                                                                                                                   add
                 400a9f:
                                                                                                                                                                                                                                                                         %rax.%rdx
                                                                                                                                                                                                                                                                            -0xc(%rbp).%eax
                 400aa2:
                                                                                                                                                                                                                                   mov
and
                 400aa5:
                                                                                                                                                                                                                                                                         $0x3f.%eax
                                                                                                                                                                                                                                  mov
movzbl
mov
                 400aa8:
                                                                                             89 c0
0f b6 80 c0 20 60 00
                                                                                                                                                                                                                                                                           %eax.%eax
                                                                                                                                                                                                                                                                        0x6020c0(%rax).%eax
                 400aaa
                 400ab1:
                                                                                        88 02

8b 45 e0

48 98

48 3b 45 d0

0f 82 b6 fe ff ff

C7 45 e0 00 00 00 00

48 8b 45 c8

48 8b 19

8b 45 e0

8b 45 e0
                                                                                             88 02
                                                                                                                                                                                                                                                                         %al.(%rdx)
                                                                                                                                                                                                                                                                         -0x20(%rbp).%eax
                 400ab3:
                 400ab6:
                                                                                                                                                                                                                                   clta
                                                                                                                                                                                                                                                                            -0x30(%rbp).%rax
                 400ab8:
                                                                                                                                                                                                                                                                        400978 <access@plt+0x318>
$0x0,-0x20(%rbp)
                                                                                                                                                                                                                                   jb
movl
                 400abc:
                 400ac2:
                                                                                                                                                                                                                                                                         400aef <access@plt+0x48f>
-0x38(%rbp),%rax
               400ac9:
                                                                                                                                                                                                                                   jmp
mov
               400acb:
                                                                                                                                                                                                                                   mov
               400acf:
                                                                                                                                                                                                                                                                           (%rax),%rdx
-0x20(%rbp),%eax
               400ad2:
                                                                                             48 98
48 29 c2
48 89 d0
               400ad5:
                                                                                                                                                                                                                                   cltq
               400ad7:
                                                                                                                                                                                                                                   sub
                                                                                                                                                                                                                                                                         %rax,%rdx
               400ada:
                                                                                                                                                                                                                                   mov
lea
                                                                                          48 89 00

48 80 50 ff

48 8b 45 f8

48 01 d0

60 03 d

83 45 e0 01

48 8b 4d d0

48 ba ab aa aa aa aa
               400add:
                                                                                                                                                                                                                                                                           -0x1(%rax),%rdx
-0x8(%rbp),%rax
               400ae1:
                                                                                                                                                                                                                                   add
               400ae5:
                                                                                                                                                                                                                                                                         %rdx,%rax
                                                                                                                                                                                                                                                                        $0x3d,(%rax)
$0x1,-0x20(%rbp)
-0x30(%rbp),%rcx
               400ae8:
                                                                                                                                                                                                                                   movb
addl
               400aeb:
               400aef:
               400af3:
                                                                                        movabs
                                                                                                                                                                                                                                                                        $0xaaaaaaaaaaaaab,%rdx
               400afa:
                                                                                                                                                                                                                                                                        %rcx,%rax
               400afd:
                                                                                                                                                                                                                                   mov
               400b00:
                                                                                                                                                                                                                                   mul
shr
               400b03:
                                                                                                                                                                                                                                                                         %rdx
               400b06:
                                                                                                                                                                                                                                                                         %rdx,%rax
                                                                                                                                                                                                                                                                        %rax,%rax
%rdx,%rax
%rax,%rcx
               400b09:
                                                                                                                                                                                                                                   add
               400b0c
                                                                                                                                                                                                                                   add
               400b0f
                                                                                                                                                                                                                                   sub
                                                                                                                                                                                                                                                                        %rax,%rdx
%rcx,%rdx
0x602100(,%rdx,4),%eax
-0x20(%rbp),%eax
400acb <access@plt+0x46b>
-0x8(%rbp),%rax
               400b12
                                                                                                                                                                                                                                   mov
mov
               400b15:
                 400b1c:
                                                                                                                                                                                                                                   cmp
                 400b1f
                                                                                                                                                                                                                                   jg
                 400b21:
               400b25:
                                                                                                                                                                                                                                   leaveq
retq
                                                                                        C3
60 0f 1f 84 00 00 00
61 07
41 57
41 89 ff
41 98 9f 6
41 98 9d 5
41 54 84 82 25 c8 12 20 00
55
42 96 5
31 db
48 81 2d c8 12 20 00
53
48 84 2f 68 68 85 fa ff ff
48 85 ed
74 16 84 80 00 00 00 00
60 89 ea
44 89 ff
41 51 40 40 89 66
41 55
41 55
41 56
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                 400b26:
                                                                                                                                                                                                                                                                        0x0(%rax,%rax,1)
                 400b27:
                                                                                                                                                                                                                                  nopw
                 400b2e:
                                                                                                                                                                                                                                  push
                                                                                                                                                                                                                                                                         %r15
                 400b30:
                                                                                                                                                                                                                                                                        %edi,%r15d
%r14
               400152: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153: 400153
                                                                                                                                                                                                                                  mov
push
                                                                                                                                                                                                                                                                      %r14
%rsi,%r14
%r13
%rdx,%r13
%r12
0x2012c8(%rip),%r12
%rhn
                                                                                                                                                                                                                                  mov
push
                                                                                                                                                                                                                                  mov
push
lea
push
lea
push
sub
xor
sar
                                                                                                                                                                                                                                                                                                                                                                                                                           # 601e10 <access@plt+0x2017b0>
                                                                                                                                                                                                                                                                      0x2012c8(%rip),%r12
%rbp
0x2012c8(%rip),%rbp
%rbx
%rlx,%rbp
%ebx,%ebx
50x3,%rbp
50x6,%rsp
400598 cputs@plt-0x38>
%rbp,%rbp
400b66 <access@plt+0x526>
0x0(%rax,%rax,1)
                                                                                                                                                                                                                                                                                                                                                                                                                           # 601e18 <access@plt+0x2017b8>
                                                                                                                                                                                                                                   je
nopl
                                                                                                                                                                                                                               0x0(%rax,%rax,1)
%r13,%rdx
%r14,%rsi
%r15d,%edi
%rbp,%rbx
400b70 <access@plt+0x510>
$vrb,%rbx
4rbp
%rbx
%rbp
%rbx
%rbp
%rbx
%rby
%r12
%r13
%r14
%r15
                                                                                                                                                                                                                                   repz retq
nopw %cs:0x0(%rax,%rax,1)
                                                                                                                                                                                                                                                                      0x0(%rax)
%rsi,%rdx
%rdi,%rsi
$0x1,%edi
400640 <__xstat@plt>
                                                                                                                                                                                                                                  nopl
mov
mov
mov
jmpq
                 400bbb:
   Disassembly of section .fini:
0000000000400bc0 <.fini>:
DpateS@Dhrumil:-/dpate85/hw2/puzzles5 ls 0 1 2 3 4 howto.txt iamspecial secrets.txt Dpate85@Dhrumil:-/dpate85/hw2/puzzles5 vi secrets.txt Dpate85@Dhrumil:-/dpate85/hw2/puzzles5 vi howto.txt Dpate83@Dhrumil:-/dpate85/hw2/puzzles5 vi howto.txt Dpate83@Dhrumil:-/dpate85/hw2/puzzles5 vi howto.txt Dpate83@Dhrumil:-/dpate85/hw2/puzzles5 vi howto.txt Dpate83@Dhrumil:-/dpate85/hw2/puzzles5 vi howto.txt Dpate85@Dhrumil:-/dpate85/hw2/puzzles5 vi secrets.txt Dpate85/hw2/puzzles5 vi secrets.txt Dpate85/hw2/puzzles5 vi secrets.txt Dpate85/hw2/puzzles5 vi secrets.txt Dpate85/hw2/puzzles5 vi secrets.txt Dp
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