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Лабораторная работа №1 по курсу «Операционные системы»

Приобретение практических навыков диагностики работы программного обеспечения.

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1 Постановка задачи

При выполнении последующих лабораторных работ необходимо продемонстрировать ключевые системные вызовы, которые в них используются.

Используемые утилиты:strace, ltrace.

2 Описание утилит

Strace – утилита Linux для отслеживания системных вызовов, которые представляют собой механизм трансляции, обеспечивающий интерфейс между процессом и ядром. Работы strace возможна благодаря функции ядра ptrace. С помощью данной утилиты можно понять, что процесс пытается сделать в данное время.

Используемые ключи:

- -o file перенаправить вывод протокола в файл
- -f отслежичать системные вызовы у дочерних процессов
- -e trace=filters указываются группы системных вызовов по которым будет фильтроваться вывод.

ltrace – утилита Linux, отслеживающая системные вызовы, связанные с динамическими библиотеками.

3 Примеры использования утилит

```
2452 read(0, <unfinished ...>
2454 dup2(3,0)
                                       = 0
2454 read(4,"\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\360q
2\0\0\0\0\0\\dots,832) = 832
2454 read(0, <unfinished ...>
2452 < \dots \text{ read resumed} > "1 2 3 n", 1024) = 6
2452 write(4,"1",1)
2454 <... read resumed>"1",4096)
                                       = 1
2452 write(4," ",1 <unfinished ...>
2454 read(0, <unfinished ...>
2452 < ... write resumed>)
                                        = 1
2454 < ... read resumed>" ",4096)
                                       = 1
2452 write(4,"2",1 <unfinished ...>
2454 read(0, <unfinished ...>
2452 < ... write resumed>)
                                        = 1
2454 <... read resumed>"2",4096)
                                       = 1
2452 write(4," ",1 <unfinished ...>
2454 read(0, <unfinished ...>
2452 < ... write resumed>)
                                        = 1
2454 <... read resumed>" ",4096)
                                       = 1
2452 write(4,"3",1 <unfinished ...>
2454 read(0, <unfinished ...>
2452 <... write resumed>)
                                        = 1
2454 < ... read resumed>"3",4096)
                                       = 1
2452 write(4,"\n",1 <unfinished ...>
2454 read(0, <unfinished ...>
2452 < ... write resumed>)
                                        = 1
2454 < ... read resumed>"\n",4096)
                                       = 1
2452 read(0, <unfinished ...>
2454 read(0, <unfinished ...>
2452 < \dots \text{ read resumed} > "0 0 n", 1024) = 4
2452 write(4,"0",1)
2454 <... read resumed>"0",4096)
                                       = 1
2452 write(4," ",1 <unfinished ...>
2454 read(0, <unfinished ...>
2452 < ... write resumed>)
                                        = 1
2454 <... read resumed>" ",4096)
                                       = 1
2452 write(4,"0",1)
                                      = 1
2454 read(0, <unfinished ...>
2452 write(4, "\n", 1)
                                      = 1
2454 <... read resumed>0\n,4096)
                                       = 2
```

```
2452 read(0, <unfinished ...>
2454 read(0, <unfinished ...>
2452 < \dots \text{ read resumed} > "2 -1 \ ", 1024) = 5
2452 write(4,"2",1)
2454 < ... read resumed>"2",4096)
                                       = 1
2452 write(4," ",1 <unfinished ...>
2454 read(0, <unfinished ...>
2452 < ... write resumed>)
                                        = 1
2454 <... read resumed>" ",4096)
                                       = 1
2452 write(4,"-",1 <unfinished ...>
2454 read(0, <unfinished ...>
2452 <... write resumed>)
                                        = 1
2454 <... read resumed>"-",4096)
                                       = 1
2452 write(4,"1",1 <unfinished ...>
2454 read(0, <unfinished ...>
2452 <... write resumed>)
                                        = 1
2454 < ... read resumed>"1",4096)
                                       = 1
2452 write(4,"\n",1 <unfinished ...>
2454 read(0, <unfinished ...>
2452 < ... write resumed>)
                                        = 1
2454 <... read resumed>"\n",4096)
                                       = 1
2452 read(0, <unfinished ...>
2454 read(0, <unfinished ...>
2452 < ... read resumed>"",1024)
                                       = 0
2454 < ... read resumed>"",4096)
                                       = 0
2454 write(4,"6\n0\n1\n",6)
                                      = 6
2452 +++ exited with 0 +++
2454 +++ exited with 0 +++
```

```
pavel@DESKTOP-K5KMLPV:~/Project/mai/2_course/OS/LB3$ strace -f -e
trace="%process,write" -o log.txt ./main 4
23 55 -36 7 0 254 -454 3
-454
-36
0
3
7
23
55
254
pavel@DESKTOP-K5KMLPV:~/Project/mai/2_course/OS/LB3$ cat log.txt
1273 execve("./main",["./main","4"],0x7ffda4153150 /* 29 vars */) = 0
1273 arch_prctl(0x3001 /* ARCH_??? */,0x7ffc25e05a30) = -1 EINVAL
(Invalid argument)
1273 arch_prctl(ARCH_SET_FS, 0x7f2ea1d04740) = 0
1273 clone(child_stack=0x7f2ea1d02fb0,flags=CLONE_VM|CLONE_FS|
CLONE_FILES | CLONE_SIGHAND | CLONE_THREAD | CLONE_SYSVSEM | CLONE_SETTLS
|CLONE_PARENT_SETTID|CLONE_CHILD_CLEARTID, parent_tid=[1274],
tls=0x7f2ea1d03700,child_tidptr=0x7f2ea1d039d0) = 1274
1273 clone(child_stack=0x7f2ea1501fb0,flags=CLONE_VM|CLONE_FS|
CLONE_FILES | CLONE_SIGHAND | CLONE_THREAD | CLONE_SYSVSEM | CLONE_SETTLS |
CLONE_PARENT_SETTID | CLONE_CHILD_CLEARTID, parent_tid=[1275],
tls=0x7f2ea1502700, child\_tidptr=0x7f2ea15029d0) = 1275
1275 exit(0)
1274 clone(child_stack=0x7f2ea0d00fb0,flags=CLONE_VM|CLONE_FS|
CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|
CLONE_PARENT_SETTID | CLONE_CHILD_CLEARTID <unfinished ...>
1275 +++ exited with 0 +++
1273 clone(child_stack=0x7f2ea1501fb0,flags=CLONE_VM|CLONE_FS|
CLONE FILES CLONE SIGHAND CLONE THREAD CLONE SYSVSEM CLONE SETTLS
CLONE_PARENT_SETTID|CLONE_CHILD_CLEARTID <unfinished ...>
1274 <... clone resumed>,parent_tid=[1276],tls=0x7f2ea0d01700,
child_tidptr=0x7f2ea0d019d0) = 1276
1273 <... clone resumed>,parent_tid=[1277],tls=0x7f2ea1502700,
child_tidptr=0x7f2ea15029d0) = 1277
                                         = ?
1277 exit(0)
1277 +++ exited with 0 +++
```

```
1276 exit(0)
                                        = ?
1276 +++ exited with 0 +++
1274 clone(child_stack=0x7f2ea0d00fb0,flags=CLONE_VM|CLONE_FS|
CLONE_FILES | CLONE_SIGHAND | CLONE_THREAD | CLONE_SYSVSEM | CLONE_SETTLS |
CLONE_PARENT_SETTID | CLONE_CHILD_CLEARTID, parent_tid=[1278],
tls=0x7f2ea0d01700,child_tidptr=0x7f2ea0d019d0) = 1278
1274 clone(child_stack=0x7f2ea1501fb0,flags=CLONE_VM|CLONE_FS|
CLONE_FILES | CLONE_SIGHAND | CLONE_THREAD | CLONE_SYSVSEM | CLONE_SETTLS |
CLONE_PARENT_SETTID|CLONE_CHILD_CLEARTID <unfinished ...>
1278 exit(0 <unfinished ...>
1274 <... clone resumed>,parent_tid=[1279],tls=0x7f2ea1502700,
child_tidptr=0x7f2ea15029d0) = 1279
1278 <... exit resumed>)
1278 +++ exited with 0 +++
1279 exit(0)
1279 +++ exited with 0 +++
                                        = ?
1274 exit(0)
1274 +++ exited with 0 +++
1273 clone(child_stack=0x7f2ea1d02fb0,flags=CLONE_VM|CLONE_FS|
CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|
CLONE_PARENT_SETTID | CLONE_CHILD_CLEARTID, parent_tid=[1280],
tls=0x7f2ea1d03700,child_tidptr=0x7f2ea1d039d0) = 1280
1273 clone(child_stack=0x7f2ea0d00fb0,flags=CLONE_VM|CLONE_FS|
CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|
CLONE_PARENT_SETTID|CLONE_CHILD_CLEARTID <unfinished ...>
1280 clone(child_stack=0x7f2ea1501fb0,flags=CLONE_VM|CLONE_FS|
CLONE_FILES | CLONE_SIGHAND | CLONE_THREAD | CLONE_SYSVSEM | CLONE_SETTLS |
CLONE_PARENT_SETTID|CLONE_CHILD_CLEARTID <unfinished ...>
1273 <... clone resumed>,parent_tid=[1281],tls=0x7f2ea0d01700,
child_tidptr=0x7f2ea0d019d0) = 1281
1280 <... clone resumed>,parent_tid=[1282],tls=0x7f2ea1502700,
child_tidptr=0x7f2ea15029d0) = 1282
1281 exit(0)
                                        = ?
1281 +++ exited with 0 +++
1282 clone(child_stack=0x7f2ea0d00fb0,flags=CLONE_VM|CLONE_FS|
CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|
CLONE_PARENT_SETTID | CLONE_CHILD_CLEARTID, parent_tid=[1283],
tls=0x7f2ea0d01700,child_tidptr=0x7f2ea0d019d0) = 1283
1283 exit(0)
1283 +++ exited with 0 +++
1282 exit(0)
                                        = ?
```

```
1282 +++ exited with 0 +++
1280 exit(0)
                                      = ?
1280 +++ exited with 0 +++
1273 write(1,"-454\n",5)
                                    = 5
1273 write(1,"-36\n",4)
                                    = 4
1273 write(1,"0\n",2)
                                    = 2
                                    = 2
1273 write(1,"3\n",2)
1273 write(1,"7\n",2)
                                    = 2
1273 write(1,"23\n",3)
                                    = 3
1273 write(1,"55\n",3)
                                    = 3
1273 write(1,"254\n",4)
                                    = 4
1273 exit_group(0)
                                     = ?
1273 +++ exited with 0 +++
```

```
pavel@DESKTOP-K5KMLPV:~/Project/mai/2_course/OS/LB4$ strace -f -e trace=
"%process,read,write,dup2,mmap" -o log.txt ./parent
test2
1 2 3
0 0
2 -1
pavel@DESKTOP-K5KMLPV:~/Project/mai/2_course/OS/LB4$ cat log.txt
      execve("./parent",["./parent"],0x7fffe2329438 /* 29 vars */) = 0
      arch_prctl(0x3001 /* ARCH_???? */,0x7ffe9622c3c0) = -1
679
EINVAL (Invalid argument)
      mmap(NULL, 45372, PROT_READ, MAP_PRIVATE, 3, 0) = 0x7f8283ee3000
      read(3,"\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0 7\0
679
000000 = 832
      mmap(NULL,8192,PROT_READ|PROT_WRITE,MAP_PRIVATE
|MAP\_ANONYMOUS, -1, 0\rangle = 0x7f8283ee1000
      mmap(NULL,44000,PROT_READ,MAP_PRIVATE|
MAP_DENYWRITE, 3, 0) = 0x7f8283ed6000
      mmap(0x7f8283ed9000,16384,PROT_READ|PROT_EXEC,MAP_PRIVATE|MAP_FIXED
|MAP_DENYWRITE, 3, 0x3000) = 0x7f8283ed9000
      mmap(0x7f8283edd000,4096,PROT_READ,MAP_PRIVATE|MAP_FIXED|
MAP_DENYWRITE, 3, 0x7000) = 0x7f8283edd000
      mmap(0x7f8283edf000,8192,PROT_READ|PROT_WRITE,MAP_PRIVATE|
MAP_FIXED|MAP_DENYWRITE,3,0x8000) = 0x7f8283edf000
      read(3,"\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\220
679
201\0\0\0\0\0\0\ = 832
      mmap(NULL, 140408, PROT_READ, MAP_PRIVATE)
679
MAP_DENYWRITE, 3, 0) = 0x7f8283eb3000
679
      mmap(0x7f8283eba000,69632,PROT_READ|PROT_EXEC,MAP_PRIVATE|
MAP_FIXED|MAP_DENYWRITE, 3,0x7000) = 0x7f8283eba000
      mmap(0x7f8283ecb000,20480,PROT_READ,MAP_PRIVATE|MAP_FIXED|
679
MAP_DENYWRITE, 3, 0x18000) = 0x7f8283ecb000
      mmap(0x7f8283ed0000,8192,PROT_READ|PROT_WRITE,MAP_PRIVATE|
MAP_FIXED | MAP_DENYWRITE, 3, 0x1c000) = 0x7f8283ed0000
      mmap(0x7f8283ed2000,13432,PROT_READ|PROT_WRITE,MAP_PRIVATE|
MAP_FIXED | MAP_ANONYMOUS, -1, 0) = 0x7f8283ed2000
      read(3,"\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\360q
2\0\0\0\0\0\...,832) = 832
      mmap(NULL, 2036952, PROT_READ, MAP_PRIVATE)
679
MAP_DENYWRITE, 3, 0) = 0x7f8283cc1000
```

```
679
      mmap(0x7f8283ce6000,1540096,PROT_READ|PROT_EXEC,MAP_PRIVATE|
MAP_FIXED|MAP_DENYWRITE, 3,0x25000) = 0x7f8283ce6000
      mmap(0x7f8283e5e000,303104,PROT_READ,MAP_PRIVATE|MAP_FIXED|
679
MAP_DENYWRITE, 3,0x19d000) = 0x7f8283e5e000
      mmap(0x7f8283ea9000,24576,PROT_READ|PROT_WRITE,MAP_PRIVATE|
MAP_FIXED|MAP_DENYWRITE, 3, 0x1e7000) = 0x7f8283ea9000
      mmap(0x7f8283eaf000,13528,PROT_READ|PROT_WRITE,MAP_PRIVATE|
MAP_FIXED|MAP_ANONYMOUS, -1,0) = 0x7f8283eaf000
      mmap(NULL, 12288, PROT_READ| PROT_WRITE, MAP_PRIVATE|
MAP_ANONYMOUS, -1, 0) = 0x7f8283cbe000
679
      arch_prctl(ARCH_SET_FS,0x7f8283cbe740) = 0
      mmap(NULL, 4096, PROT_READ| PROT_WRITE,
MAP\_SHARED, 3, 0) = 0x7f8283f1b000
      mmap(NULL,4,PROT_READ|PROT_WRITE,MAP_SHARED,4,0) = 0x7f8283eee000
679
679
      mmap(NULL,8,PROT_READ|PROT_WRITE,MAP_SHARED,5,0) = 0x7f8283eed000
679
      read(0,"test2\n",1024)
                                       = 6
679
      clone(child_stack=NULL,flags=CLONE_CHILD_CLEARTID|
CLONE_CHILD_SETTID|SIGCHLD,child_tidptr=0x7f8283cbea10) = 680
      read(0, <unfinished ...>
680
      execve("./child",["child","test2","my_shared_mem",
"my_shared_mem_size", "my_mutex"], 0x7ffe9622c4a8 /* 29 vars */) = 0
      arch_prctl(0x3001 /* ARCH_??? */,0x7ffc20777f70) = -1
EINVAL (Invalid argument)
      mmap(NULL, 45372, PROT_READ, MAP_PRIVATE, 3, 0) = 0x7fa203107000
680
      read(3,"\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0 7\0
680
000000 = 832
      mmap(NULL,8192,PROT_READ|PROT_WRITE,MAP_PRIVATE|
MAP\_ANONYMOUS, -1, 0) = 0x7fa203105000
      mmap(NULL, 44000, PROT_READ, MAP_PRIVATE)
MAP_DENYWRITE, 3, 0) = 0x7fa2030fa000
680
      mmap(0x7fa2030fd000,16384,PROT_READ|PROT_EXEC,MAP_PRIVATE|
MAP_FIXED|MAP_DENYWRITE, 3,0x3000) = 0x7fa2030fd000
      mmap(0x7fa203101000,4096,PROT_READ,MAP_PRIVATE|MAP_FIXED|
MAP_DENYWRITE, 3, 0x7000) = 0x7fa203101000
      mmap(0x7fa203103000,8192,PROT_READ|PROT_WRITE,MAP_PRIVATE|
MAP_FIXED|MAP_DENYWRITE,3,0x8000) = 0x7fa203103000
      read(3,"\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\220
680
201\0\0\0\0\0\0\ = 832
      mmap(NULL, 140408, PROT_READ, MAP_PRIVATE)
680
MAP_DENYWRITE, 3,0) = 0x7fa2030d7000
      mmap(0x7fa2030de000,69632,PROT_READ|PROT_EXEC,MAP_PRIVATE|
680
```

```
MAP_FIXED|MAP_DENYWRITE, 3,0x7000) = 0x7fa2030de000
      mmap(0x7fa2030ef000,20480,PROT_READ,MAP_PRIVATE|MAP_FIXED|
MAP_DENYWRITE, 3, 0x18000) = 0x7fa2030ef000
      mmap(0x7fa2030f4000,8192,PROT_READ|PROT_WRITE,MAP_PRIVATE|
MAP_FIXED|MAP_DENYWRITE, 3, 0x1c000) = 0x7fa2030f4000
      mmap(0x7fa2030f6000,13432,PROT_READ|PROT_WRITE,MAP_PRIVATE|
MAP_FIXED | MAP_ANONYMOUS, -1, 0) = 0x7fa2030f6000
      read(3,"\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\360q
680
2\0\0\0\0\0\...,832) = 832
      mmap(NULL, 2036952, PROT_READ, MAP_PRIVATE | MAP_DENYWRITE, 3, 0)
= 0x7fa202ee5000
      mmap(0x7fa202f0a000,1540096,PROT_READ|PROT_EXEC,MAP_PRIVATE|
MAP_FIXED|MAP_DENYWRITE, 3,0x25000) = 0x7fa202f0a000
      mmap(0x7fa203082000,303104,PROT_READ,MAP_PRIVATE|MAP_FIXED|
MAP_DENYWRITE, 3, 0x19d000) = 0x7fa203082000
      mmap(0x7fa2030cd000,24576,PROT_READ|PROT_WRITE,MAP_PRIVATE|
MAP_FIXED|MAP_DENYWRITE,3,0x1e7000) = 0x7fa2030cd000
      mmap(0x7fa2030d3000,13528,PROT_READ|PROT_WRITE,MAP_PRIVATE|
MAP_FIXED | MAP_ANONYMOUS, -1, 0) = 0x7fa2030d3000
680
      mmap(NULL, 12288, PROT_READ | PROT_WRITE, MAP_PRIVATE |
MAP\_ANONYMOUS, -1, 0) = 0x7fa202ee2000
      arch_prctl(ARCH_SET_FS,0x7fa202ee2740) = 0
680
      mmap(NULL, 4096, PROT_READ | PROT_WRITE,
680
MAP\_SHARED, 3, 0) = 0x7fa20313f000
      mmap(NULL, 4, PROT_READ|PROT_WRITE, MAP_SHARED, 4, 0) = 0x7fa203112000
680
680
      mmap(NULL,8,PROT_READ|PROT_WRITE,MAP_SHARED,5,0) = 0x7fa203111000
679
      <... read resumed>"1 2 3\n",1024) = 6
679
      read(0,"0 0\n",1024)
                                       = 4
679
      read(0,"2 -1\n",1024)
                                       = 5
679
      read(0,"",1024)
                                       = 0
680
      write(6, "6\n0\n1\n", 6)
679
      exit_group(0)
679
      +++ exited with 0 +++
                                         = ?
680
      exit_group(0)
680
      +++ exited with 0 +++
```

```
pavel@DESKTOP-K5KMLPV:~/Project/mai/2_course/OS/LB5$
ltrace -o log_link.txt ./linking
2 4
8.000000
6
110
pavel@DESKTOP-K5KMLPV:~/Project/mai/2_course/OS/LB5$ cat log_link.txt
__isoc99_scanf(0x7f799b400a42,0x7fffdbee5098,
0x7fffdbee51a8,0x7f799b4009b0) = 1
_{\rm lisoc99\_scanf}(0x7f799b400a34,0x7fffdbee509c,0x7fffdbee50a0,16) = 2
Square(0,2,0x7f799addd8d0,0x7fffdbee4b41) = 0x40000000
printf("%f\n",8.000000) = 9
_{-}isoc99_{scanf}(0x7f799b400a42,0x7fffdbee5098,0,0) = 1
_{\rm lisoc99\_scanf}(0x7f799b400a3e,0x7fffdbee50a0,0x7f799addd8d0,16) = 1
Translation(6,1,0x7f799addd8d0,16) = 0x7fffd42e3280
puts("110") = 4
__isoc99_scanf(0x7f799b400a42,0x7fffdbee5098,
0x7f799addd8c0,0x7fffd42e1010) = 0xffffffff
+++ exited (status 0) +++
pavel@DESKTOP-K5KMLPV:~/Project/mai/2_course/OS/LB5$
ltrace -o log_dynamic.txt ./dynamic
1
2 4
8.000000
2
6
110
0
1
2 4
4.000000
2
6
pavel@DESKTOP-K5KMLPV:~/Project/mai/2_course/OS/LB5$ cat log_dynamic.txt
dlopen("lib1.so",1) = 0x7fffee054290
dlsym(0x7fffee054290,"Square") = 0x7f4659be06ea
```

```
dlsym(0x7fffee054290, "Translation") = 0x7f4659be0704
 _{\rm lisoc99\_scanf}(0x7f465a800b85,0x7fffff60316f4,1,0) = 1
 _{\rm liso} cos _{\rm liso} c
printf("%f\n", 8.000000) = 9
_{-isoc99\_scanf}(0x7f465a800b85,0x7fffff60316f4,0,0) = 1
 _{\rm liso} cos _{\rm liso} c
puts("110") = 4
 _{\rm lisoc99\_scanf}(0x7f465a800b85,0x7ffff60316f4,0x7f465a1dd8c0,
0x7fffee054010) = 1
dlclose(0x7fffee054290) = 0
dlopen("lib2.so",1) = 0x7fffee054290
dlsym(0x7fffee054290,"Square") = 0x7f4659be0784
dlsym(0x7fffee054290, "Translation") = 0x7f4659be07aa
 _{\text{loc}} = 1 _{\text{loc}} =
 _{\rm lisoc99\_scanf}(0x7f465a800b77,0x7ffff60316f8,0x7fffff6031700,16) = 2
printf("%f\n",4.000000) = 9
 _{\rm lisoc99\_scanf}(0x7f465a800b85,0x7fffff60316f4,0,0) = 1
 _{\rm lisoc99\_scanf}(0x7f465a800b81,0x7ffff6031700,0x7f465a1dd8d0,16) = 1
puts("20") = 3
 __isoc99_scanf(0x7f465a800b85,0x7ffff60316f4,0x7f465a1dd8c0,
0x7fffee054010) = 0xffffffff
dlclose(0x7fffee054290) = 0
+++ exited (status 0) +++
```

```
pavel@DESKTOP-K5KMLPV:~/Project/mai/2_course/OS/LB6_8$ cat log.txt
      execve("./client",["./client"],0x7ffe8b8368e0 /* 30 vars */) = 0
ork(NULL) = 0x5637fbcb3000
brk(NULL) = 0x5637fbcb3000
arch_prctl(0x3001 /* ARCH_??? */,0x7fff0a455420) = -1 EINVAL (Invalid argument)
access("/etc/ld.so.preload",R_OK) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./tls/x86_64/x86_64/libzmq.so.5",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./tls/x86_64/libzmq.so.5",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./tls/x86_64/libzmq.so.5",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./tls/libzmq.so.5",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/x86_64/libzmq.so.5",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/libzmq.so.5",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/libzmq.so.5",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./s66_64/libzmq.so.5",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libzmq.so.5",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libzmq.so.5",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libzmq.so.5",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libzmq.so.5",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libzmq.so.5",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libzmq.so.5",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libzmq.so.5",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libzmq.so.5",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libzmq.so.5",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libzmq.so.5",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libzmq.so.5",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libzmq.so.5",O_RDON
  fstat(3,{st_mode=S_IFREG|0644,st_size=675776,...}) = 0
mmap(NULL,8192,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_ANONYMOUS,-1,0) = 0x7f721d427000
mmap(NULL,678128,PROT_READ,MAP_PRIVATE|MAP_DENYWRITE,3,0) = 0x7f721d381000
 mmap(0x7f721d397000,430080,PROT_READ|PROT_EXEC,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x16000) = 0x7f721d397000
mmap(0x7f721d400000,126976,PROT_READ,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x7f000) = 0x7f721d400000
  mmap(0x7f721d41f000,32768,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x9d000) = 0x7f721d41f000
| fstat(3, {st_mode=S_IFREG|0644, st_size=1952928,...}) = 0 | mmap(NULL, 1968128, PROT_READ, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) = 0x7f721d1a0000 | mprotect(0x7f721d236000, 1286144, PROT_NONE) = 0 | mmap(0x7f721d236000, 983040, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3,0x96000) = 0x7f721d236000
 mmap(0x7f721d326000,299008,PROT_READ,MAP_PRIVATE|MAP_FIVED|MAP_DENYWRITE,3,0x166000) = 0x7f721d326000
mmap(0x7f721d370000,57344,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x1cf000) = 0x7f721d370000
   \begin{array}{l} mmap (0x7f721d37e000,10240,PROT\_READ|PROT\_WRITE,MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS,-1,0) = 0x7f721d37e000 \\ close(3) = 0 \end{array} 
close(3)

openat(AT_FDCWD,"./tls/x86_64/x86_64/libgcc_s.so.1",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./tls/x86_64/libgcc_s.so.1",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./tls/x86_64/libgcc_s.so.1",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./tls/libgcc_s.so.1",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./x86_64/x86_64/libgcc_s.so.1",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./x86_64/libgcc_s.so.1",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./x86_64/libgcc_s.so.1",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./x86_64/libgcc_s.so.1",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libgcc_s.so.1",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libgcs_s.so.1",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libgcs_s.so.1",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libgcs_s.so.1",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libgcs_s.so.1",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libgcs_s.so.1",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libgcs_s.so.1",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libgcs_s.so.1",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libgcs_s.so.1",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libgcs_s.so.1",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libgcs_s.so.1",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libgcs_s.so.1",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libgcs_s.so.1",O_RDONLY|O_CLOEXEC) = -
  mmap(0x7f721d19a000,16384,PROT_READ,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x15000) = 0x7f721d19a000
mmap(0x7f721d19a000,8192,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x18000) = 0x7f721d19a000
close(3) = 0

openat(AT_FDCWD,"./tls/x86_64/x86_64/libc.so.6",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./tls/x86_64/libc.so.6",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./tls/x86_64/libc.so.6",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./tls/libc.so.6",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./x86_64/x86_64/libc.so.6",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./x86_64/libc.so.6",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./x86_64/libc.so.6",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libc.so.6",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libc.so.6",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"/libc.so.6",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"/libc.so.6",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"/libc.so.6",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"/libc.so.6",0_RDONLY|0_LOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"/libc.so.6",0_RDONLY|0_LOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"/libc.so.6",0_RDONLY|0_LOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"/libc.so.6",0_RDONLY|0_LOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"/libc.so.6",0_RDONLY|0_LOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"/libc.so.6",0_RDONLY|0_LOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"/libc.so.6",0_RDONLY|0_LOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"/libc.so.6",0_RDONLY|0_LOEXEC) = -1 ENOENT (No such file or directory)
pread64(3,"\4\0\0\0\2\0\0\5\0\0\0GNU\0\2\0\0\3\0\0\0\0\0\0\0\0\0,3,2,848) = 32
pread64(3,"\4\0\0\0\24\0\0\0\3\0\0GNU\0\t\233\222%\274\260\320\31\331\326\10\204\276X>\263"...,68,880) = 68
 mmap(NUL,2036952,PROT_READ,MAP_PRIVATE|MAP_DENYWRITE,3,0) = 0x7f721cf93000
mprotect(0x7f721cfb8000,1847296,PROT_NONE) = 0
mmap(0x7f721cfb8000,1540096,PROT_READ|PROT_EXEC,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x25000) = 0x7f721cfb8000
  mmap(0x7f721d130000,303104,PROT_READ,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x19d000) = 0x7f721d130000
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mmap(0x7f721d17b000,24576,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x1e7000) = 0x7f721d17b000
 mmap(0x7f721d181000,13528,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS,-1,0) = 0x7f721d181000
 openat(AT_FDCWD,"./tls/x86_64/x86_64/libsodium.so.23",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
mmap(NULL,357384,PROT_READ,MAP_PRIVATE MAP_DENYWRITE,3,0) = 0x7f721cf3b000
mmap(0x7f721cf47000,229376,PROT_READ|PROT_EXEC,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0xc000) = 0x7f721cf47000
 mmap(0x7f721cf7f000,73728,PROT_READ,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x44000) = 0x7f721cf7f000
mmap(0x7f721cf91000,8192,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x55000) = 0x7f721cf91000
                                                                                                     = 0
mmap(0x7f721cf35000,8192,PROT_READ|PROT_WRITE,MAP_PRIVATE MAP_FIXED|MAP_DENYWRITE,3,0x48000) = 0x7f721cf35000
 mmap(0x7f721cf37000,14384,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS,-1,0) = 0x7f721cf37000
mmap(0x7f721ce35000,16384,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0xa5000) = 0x7f721ce35000
mmap(0x7f721ce39000,723680,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS,-1,0) = 0x7f721ce39000
                                                                                                    = 0
close(3) = 0
openat(AT_FDCWD,"./tls/x86_64/x86_64/libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./tls/x86_64/libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./tls/x86_64/libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./tls/libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/x86_64/libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libgsapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libgsapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libgsapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libgsapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libgsapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
mmap(0x7f721cd4d000,204800,PROT_READ|PROT_EXEC,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0xb000) = 0x7f721cd4d000
 mmap(0x7f721cd7f000,49152,PROT READ,MAP PRIVATE|MAP FIXED|MAP DENYWRITE,3.0x3d000) = 0x7f721cd7f000
 mmap(0x7f721cd8b000,16384,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x48000) = 0x7f721cd8b000
close(3) = 0
openat(AT_FDCWD,"./tls/x86_64/x86_64/libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./tls/x86_64/libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./tls/x86_64/libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./tls/libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/x86_64/libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/libpthread.so.0",0_RDONLY|0_CLOEXE
                                                                                                     = 0
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mmap(0x7f721cd26000,69632,PROT_READ|PROT_EXEC,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x7000) = 0x7f721cd26000
mmap(0x7f721cd37000,20480,PROT_READ,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x18000) = 0x7f721cd37000
mmap(0x7f721cd3c000,8192,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x1c000) = 0x7f721cd3c000
mmap(0x7f721cd3c000,13432,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS,-1,0) = 0x7f721cd3c000
close(3) = 0
mmap(0x7f721cc86000,618496,PROT_READ,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0xb6000) = 0x7f721cc86000
mmap(0x7f721cd1d000,8192,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x14c000) = 0x7f721cd1d000
mmp(0x7f721cbt5000,397312,PROT_READ|PROT_EXEC_MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x22000) = 0x7f721cbt5000 mmap(0x7f721cbt6000,299008,PROT_READ,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x2000) = 0x7f721cbt6000 mmap(0x7f721cbc0000,65536,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0xcc000) = 0x7f721cbc0000 close(3) = 0
mmap(0x7f721cae0000,53248,PROT_READ,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x20000) = 0x7f721cae0000
mmap(0x7f721cae000,8192,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x2d000) = 0x7f721cae000
mmap(0x7f721caf0000,88,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS,-1,0) = 0x7f721caf0000
= 0
fstat(3,{st_mode=S_IFREG|0644,st_size=22600,...}) = 0
mmap(NULL,24744,PROT_READ,MAP_PRIVATE|MAP_DENYWRITE,3,0) = 0x7f721cab9000
mmap(0xff721cabb000,8192,PR0T_READ)PR0T_EXEC_MAP_PRIVATE|MAP_FIXED|MAP_FIXED|MAP_DENYWRITE,3,0x2000) = 0x7f721cabb000
mmap(0xff721cabb000,4096,PR0T_READ)PR0T_EXEC_MAP_FIXED|MAP_FIXED|MAP_FIXED|MAP_DENYWRITE,3,0x2000) = 0x7f721cabb000
mmap(0x7f721cabd000,4096,PR0T_READ,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x4000) = 0x7f721cabd000
mmap(0x7f721cabe000,8192,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x4000) = 0x7f721cabe000
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mmap(NULL,58344,PROT_READ,MAP_PRIVATE|MAP_DENYWRITE,3,0) = 0x7f721caaa000
 mmap(0x7f721caad000,28672,PR0T_READ|PR0T_EXEC_MAP_PRIVATE |MAP_FIXED|MAP_DENYWRITE,3,0x3000) = 0x7f721caad000 mmap(0x7f721cab4000,12288,PR0T_READ,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0xa000) = 0x7f721cab4000
   \begin{aligned} & mmap (0x7f721cab7000,8192,PROT\_READ|PROT\_WRITE,MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE,3,0xc000) &= 0x7f721cab7000 \\ & close(3) &= 0 \end{aligned}
 mmap(0x7f721caa7000,4096,PROT_READ,MAP_RRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x4000) = 0x7f721caa7000
mmap(0x7f721caa8000,8192,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x4000) = 0x7f721caa8000
close(3) = 0

openat(AT_FDCWD,"./tls/x86_64/x86_64/libresolv.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./tls/x86_64/libresolv.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./tls/x86_64/libresolv.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./tls/libresolv.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./x86_64/libresolv.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./x86_64/libresolv.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./x86_64/libresolv.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./s86_64/libresolv.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libresolv.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libresolv.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libresolv.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libresolv.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libresolv.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libresolv.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libresolv.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libresolv.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libresolv.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libresolv.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libresolv.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./s86_64/libresolv.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./s86_64/libreso
                                                                                                                                                     = 0
 mprotect(0xff/21ca8b000,81920,PR0T_NONE) = 0
mmap(0xff/21ca8b000,6536,PR0T_READ|PR0T_EXEC,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x4000) = 0xff/21ca8b000
mmap(0xff/21ca9b000,12288,PR0T_READ,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x14000) = 0xff/21ca9b000
mmap(0xff/21ca9f000,8192,PR0T_READ|PR0T_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x17000) = 0xff/21ca9f000
mmap(0xff/21caa1000,6784,PR0T_READ|PR0T_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS,-1,0) = 0xff/21caa1000
                                                                                                                                                      = 0
 close(3) = 0

openat(AT_FDCWD,"./tls/x86_64/x86_64/libdl.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./tls/x86_64/libdl.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./tls/x86_64/libdl.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./tls/libdl.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./x86_64/ribdl.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./x86_64/libdl.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./x86_64/libdl.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./ibdl.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./ibdl.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./ibdl.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./ibdl.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./ibdl.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./ibdl.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./ibdl.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./ibdl.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./ibdl.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./ibdl.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./ibdl.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./ibdl.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./ibdl.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./ibdl.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./ibdl.so.2",0_RDONLY|0_CLOEXEC)
 fstat(3,{st_mode=S_IFREG|0644,st_size=18816,...}) = 0
mmap(NULL,8192,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_ANONYMOUS,-1,0) = 0x7f721ca85000
mmap(NULL, 8192, PROI_READ|PROI_WRITE, MAP_PRIVATE|MAP_ROUNTMOUS,-1,0) = 0xf1721ca85000

mmap(NULL, 20752, PROI_READ, MAP_PRIVATE|MAP_DENYWRITE,3,0) = 0x7f721ca7f000

mmap(0x7f721ca80000,8192, PROI_READ)|PROI_EXEC, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x1000) = 0x7f721ca80000

mmap(0x7f721ca82000,4096, PROI_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x3000) = 0x7f721ca82000

mmap(0x7f721ca83000,8192, PROI_READ, PROI_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x3000) = 0x7f721ca83000
                                                                                                                                                      = 0
 mmap(NULL,8192,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_ANONYMOUS,-1,0) = 0x7f721ca7d000
mmap(NULL,8192,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_ANONYMOUS,-1,0) = 0x7f721ca7b000
arch_prctl(ARCH_SET_FS,0x7f721ca7e600) = 0
  mprotect(0x7f721d17b000,12288,PROT_READ) = 0
mprotect(0x7f721ca83000,4096,PROT_READ) = 0
  mprotect(0x7f721ca9f000,4096,PROT_READ) = 0
mprotect(0x7f721caa8000,4096,PROT_READ) = 0
  mprotect(0x7f721cab7000,4096,PROT_READ) = 0
mprotect(0x7f721cd3c000,4096,PROT_READ) = 0
  mprotect(0x7f721cabe000,4096,PROT_READ) = 0
mprotect(0x7f721caee000,4096,PROT_READ) = 0
  mprotect(0x7f721cbc0000,57344,PROT_READ) = 0
mprotect(0x7f721cd1d000,4096,PROT_READ) = 0
  mprotect(0x7f721cd8b000,8192,PROT_READ) = 0
mprotect(0x7f721d19e000,4096,PROT_READ) = 0
  mprotect(0x7f721d370000,45056,PROT_READ) = 0
  mprotect(0x7f721ce35000,12288,PROT_READ) = 0
  mprotect(0x7f721cf35000,4096,PROT_READ) = 0
  mprotect(0x7f721cf91000,4096,PROT_READ) = 0
mprotect(0x7f721d41f000,28672,PROT_READ) = 0
mprotect(0x/f/21d411000,286/2,PR0T_READ) = 0
mprotect(0x5637fb5f8000,4096,PR0T_READ) = 0
mprotect(0x7f721d462000,4096,PR0T_READ) = 0
munmap(0x7f721d429000,45372) = 0
set_tid_address(0x7f721ca7e8d0) = 25
                                                                                                                                                   = 2942
  set_robust_list(0x7f721ca7e8e0,24) = 0
rt_sigaction(SIGRTMIN,{sa_handler=0x7f721cd26bf0,sa_mask=[],sa_flags=SA_RESTORER|SA_SIGINF0,sa_restorer=0x7f721cd343c0},NULL,8) = 0
 rt_sigaction(SIGRT_1,{sa_handler=0x7f721cd26c90,sa_mask=[],sa_flags=SA_RESTORER|SA_RESTORER|SA_SIGINFO,sa_restorer=0x7f721cd343c0},NULL,8) = 0 rt_sigprocmask(SIG_UNBLOCK,[RTMIN RT_1],NULL,8) = 0
```

```
prlimit64(0,RLIMIT_STACK,NULL,{rlim_cur=8192*1024,rlim_max=RLIM64_INFINITY}) = 0
  brk(NULL)
                                                                                                                                                         = 0x5637fbcb3000
  brk(0x5637fbcd4000)
                                                                                                                                                         = 0x5637fbcd4000
  futex(0x7f721d37e6bc.FUTEX WAKE PRIVATE.2147483647) = 0
  futex(0x7f721d37e6c8,FUTEX_WAKE_PRIVATE,2147483647) = 0
  openat(AT_FDCWD,"/sys/devices/system/cpu/online",0_RDONLY|0_CLOEXEC) = 3
                            "0-3\n",8192)
                                                                                                                                                          = 0
 close(3)
  openat(AT_FDCWD,"/sys/devices/system/cpu",O_RDONLY|O_NONBLOCK|O_CLOEXEC|O_DIRECTORY) = 3
 fstat(3,{st_mode=S_IFDIR|0755,st_size=0,...}) = 0
getdents64(3,/* 17 entries */,32768) = 496
getdents64(3,/* 0 entries */,32768) = 0
  close(3)
                                                                                                                                                        = 0
                                                                                                                                                         = 2942
geupla() = 2942

sched_getaffinity(2942,128,[0,1,2,3]) = 32

openat(AT_FDCWD,"/etc/nsswitch.conf",0_RDONLY|0_CLOEXEC) = 3

fstat(3,{st_mode=S_IFREG|0644,st_size=510,...}) = 0

read(3,"# /etc/nsswitch.conf\n#\n# Example"...,4096) = 510

read(3,"",4096) = 0
 getpid()
 close(3)
close(3) = 0
openat(AT_FDCWD,"./tls/x86_64/x86_64/libnss_db.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./tls/x86_64/libnss_db.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./tls/x86_64/libnss_db.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./tls/libnss_db.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/libnss_db.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/libnss_db.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/libnss_db.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./1bnss_db.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./ibnss_db.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./etc/ld.so.cache",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./etc/ld.so.cache",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./etc/ld.so.cache",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./etc/ld.so.cache",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./etc/ld.so.cache",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./etc/ld.so.cache",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./etc/ld.so.cache",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./etc/ld.so.cache",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./etc/ld.so.cache",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./etc/ld.so.cache",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./etc/ld.so.cache",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./etc/ld.so.cache",O_RDONLY|O_CLOEXEC) = -
                                                                                                                                                            = 0
 close(3) openat(AT_FDCWD,"/lib/x86_64-linux-gnu/tls/x86_64/x86_64/libnss_db.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
 openat(AT_FDCWD, /lib/x86_64-linux-gnu/tls/x86_64/x86_64",0x7fff0a452420) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD, "/lib/x86_64-linux-gnu/tls/x86_64",0x7fff0a452420) = -1 ENDENT (No such file or directory)

stat("/lib/x86_64-linux-gnu/tls/x86_64",0x7fff0a452420) = -1 ENDENT (No such file or directory)
stat("/lib/x86_64-linux-gnu/tls/x86_64",0x7fff0a452420) = -1 ENDENT (No such file or directory)
openat(AT_FDCWD,"/lib/x86_64-linux-gnu/tls/x86_64/libnsz_db.so.2",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)
stat("/lib/x86_64-linux-gnu/tls/x86_64',0x7fff0a4652420) = -1 ENDENT (No such file or directory)
openat(AT_FDCWD,"/lib/x86_64-linux-gnu/tls/libnsz_db.so.2",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)
openat(AT_FDCWD,"/lib/x86_64-linux-gnu/x86_64/x86_64/libnsz_db.so.2",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)
openat(AT_FDCWD,"/lib/x86_64-linux-gnu/x86_64/x86_64/libnsz_db.so.2",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)
stat("/lib/x86_64-linux-gnu/x86_64/x86_64/libnsz_db.so.2",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)
openat(AT_FDCWD,"/lib/x86_64-linux-gnu/x86_64/libnsz_db.so.2",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)
openat(AT_FDCWD,"/lib/x86_64-linux-gnu/x86_64/libnsz_db.so.2",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)
stat("/lib/x86_64-linux-gnu/x86_64",0x7fff0a452420) = -1 ENDENT (No such file or directory)
openat(AT_FDCWD,"/lib/x86_64-linux-gnu/x86_64",0x7fff0a452420) = -1 ENDENT (No such file or directory)
openat(AT_FDCWD,"/lib/x86_64-linux-gnu/x86_64",0x7fff0a452420) = -1 ENDENT (No such file or directory)
openat(AT_FDCWD,"/lib/x86_64-linux-gnu/x86_64",0x7fff0a452420) = -1 ENDENT (No such file or directory)
openat(AT_FDCWD,"/lib/x86_64-linux-gnu/x86_64",0x7fff0a452420) = -1 ENDENT (No such file or directory)
openat(AT_FDCWD,"/lib/x86_64-linux-gnu/x86_64,0x7fff0a452420) = -1 ENDENT (No such file or directory)
openat(AT_FDCWD,"/lib/x86_64-linux-gnu/x86_64,0x7fff0a452420) = -1 ENDENT (No such file or directory)
openat(AT_FDCWD,"/lib/x86_64-linux-gnu/x86_64,0x7fff0a452420) = -1 ENDENT (No such file or directory)
 stat("/lib/x86_64-linux-gnu",{st_mode=S_IFDIR|0755,st_size=40960,...}) = 0
openat(AT_FDCWD,"/usr/lib/x86_64-linux-gnu/tls/x86_64/x86_64/libnss_db.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
 openat(AI_FDCWD, "/usr/lib/x86_64-linux_gnu/tls/x86_64", 0xffff0a452420) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD, "/usr/lib/x86_64-linux_gnu/tls/x86_64", 0xffff0a452420) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD, "/usr/lib/x86_64-linux_gnu/tls/x86_64", 0xffff0a452420) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD, "/usr/lib/x86_64-linux_gnu/tls/x86_64", 0xffff0a452420) = -1 ENDENT (No such file or directory)

stat("/usr/lib/x86_64-linux_gnu/tls/x86_64", 0xffff0a452420) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD, "/usr/lib/x86_64-linux_gnu/tls/x86_64", 0xffff0a452420) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD, "/usr/lib/x86_64-linux_gnu/tls/libnss_db.so.2", 0_RDDNLY|0_CLDEXEC) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD, "/usr/lib/x86_64-linux_gnu/tls/libnss_db.so.2", 0_RDDNLY|0_CLDEXEC) = -1 ENDENT (No such file or directory)
 stat("/usr/lib/x86_64-linux-gnu/tls",0x7ffff0a452420) = -1 ENDENT (No such file or directory)
openat(AT_FDCWD,"/usr/lib/x86_64-linux-gnu/x86_64/x86_64/libnss_db.so.2",0_RDONLY|O_CLOEXEC) = -1 ENDENT (No such file or directory)
 Openat(NT_FOCWD, "Just/lib/x80_64-linux_gnu/x86_64/x86_64", 0x7fff0a452420) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD, "Just/lib/x86_64-linux_gnu/x86_64/x86_64", 0x7fff0a452420) = -1 ENDENT (No such file or directory)

stat("Just/lib/x86_64-linux_gnu/x86_64", 0x7fff0a452420) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD, "Just/lib/x86_64-linux_gnu/x86_64", 0x7fff0a452420) = -1 ENDENT (No such file or directory)

stat("Just/lib/x86_64-linux_gnu/x86_64", 0x7fff0a452420) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD, "Just/lib/x86_64-linux_gnu/x86_64", 0x7fff0a452420) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD, "Just/lib/x86_64-linux_gnu/libnss_db.so.2", 0_RDONLY|0_CLDEXEC) = -1 ENDENT (No such file or directory)
 stat("/usr/lib/x86_64-linux-gnu",{st_mode=S_IFDIR|0755,st_size=40960,...}) = 0
openat(AT_FDCWD,"/lib/tls/x86_64/x86_64/libnss_db.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
  stat("/lib/tls/x86_64/x86_64",0x7fff0a452420) = -1 ENOENT (No such file or directory)
  openat(AT_FDCWD,"/lib/tls/x86_64/libnss_db.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
  stat("/lib/tls/x86 64".0x7fff0a452420) = -1 ENOENT (No such file or directory)
  openat(AT_FDCWD,"/lib/tls/x86_64/libnss_db.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/lib/t1s/x86_64/libnss_db.so.2",Q_RDDNLY|Q_CLOEXEC) = -1 ENDENT (No such file or directory)
stat("/lib/t1s/x86_64",0x7fff0a452420) = -1 ENDENT (No such file or directory)
openat(AT_FDCWD,"/lib/t1s/libnss_db.so.2",Q_RDDNLY|Q_CLOEXEC) = -1 ENDENT (No such file or directory)
stat("/lib/t1s",0x7fff0a452420) = -1 ENDENT (No such file or directory)
openat(AT_FDCWD,"/lib/x86_64/x86_64/libnss_db.so.2",Q_RDDNLY|Q_CLOEXEC) = -1 ENDENT (No such file or directory)
stat("/lib/x86_64/x86_64",0x7fff0a452420) = -1 ENDENT (No such file or directory)
openat(AT_FDCWD,"/lib/x86_64/libnss_db.so.2",Q_RDDNLY|Q_CLOEXEC) = -1 ENDENT (No such file or directory)
stat("/lib/x86_64",0x7fff0a452420) = -1 ENDENT (No such file or directory)
openat(AT_FDCWD,"/lib/x86_64/libnss_db.so.2",Q_RDDNLY|Q_CLOEXEC) = -1 ENDENT (No such file or directory)
stat("/lib/x86_64",0x7fff0a45240) = -1 ENDENT (No such file or directory)
  stat("/lib/x86 64".0x7fff0a452420)
                                                                                                                                                   = -1 ENOENT (No such file or directory)
  openat(AT_FDCWD,"/lib/libnss_db.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AI_FDCWD, "/ID/IIDRS_dos.o.2",Q_DUBLING_CLUEARC) = -1 EVOLEN (No such file or directory) stat("||i|", fst_mode=S_IFDIR|0755, st_size=4096, ...}) = 0 openat(AT_FDCWD, "/usr/lib/tls/x86_64/x86_64/libns_db.so.2",Q_RDONLY|Q_CLOEXEC) = -1 ENOENT (No such file or directory) stat("/usr/lib/tls/x86_64/x86_64",0x7fff0a452420) = -1 ENOENT (No such file or directory) openat(AI_FDCWD, "/usr/lib/tls/x86_64",0x7fff0a452420) = -1 ENOENT (No such file or directory) stat("/usr/lib/tls/x86_64",0x7fff0a452420) = -1 ENOENT (No such file or directory)
```

```
openat(AT_FDCWD,"/usr/lib/tls/x86_64/libnss_db.so.2",0_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
 Openat(NT_FOCMD, /UsI/In)/18/X80_04",0x7fff0a452420) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD, "/usr/lib/tls/R86_64",0x7fff0a452420) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD, "/usr/lib/tls",0x7fff0a452420) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD, "/usr/lib/x86_64/X86_64/libnss_db.so.2",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)

stat("/usr/lib/x86_64/x86_64/libnss_db.so.2",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)

stat("/usr/lib/x86_64/x86_64/libnss_db.so.2",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD, "/usr/lib/x86_64/libnss_db.so.2",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)

stat("/usr/lib/x86_64/ 0x7fff0a452420) = -1 ENDENT (No such file or directory)
 stat("/usr/lib/x86_64",0x7fff0a452420) = -1 ENOENT (No such file or directory)
stat("\USY/116\X80_04",\UNYITIO4842420\) = -1 ENDENT (No Such Tile of afrectory)
openat(AT_FDCWD,"\USY/116\X80_64\Y11bnss_db.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
stat("\usr/lib\x80_64",0x7fff0a452420\) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"\usr/lib\x11bnss_db.so.2",O_RDONLY|O_CLOEXEC\) = -1 ENOENT (No such file or directory)
stat("\usr/lib",\st_imode=8_IFDIR[0755,st_size=4096,...\) = 0
munmap(0x7f721d429000,45372\) = 0
fstat(3,{st_mode=S_IFREG|0644,st_size=45372,...}) = 0
mmap(NULL,45372,PROT_READ,MAP_PRIVATE,3,0) = 0x7f721d429000
 close(3) = 0
openat(AT_FDCWD,"/lib/x86_64-linux-gnu/libnss_files.so.2",0_RDONLY|0_CLOEXEC) = 3
mmap(0x7f721ca71000,8192,PR0T_READ,MAP_PRIVATE |MAP_FIXED|MAP_DENYWRITE,3,0xa000) = 0x7f721ca71000
mmap(0x7f721ca73000,8192,PR0T_READ|PR0T_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0xb000) = 0x7f721ca730
mmap(0x7f721ca75000,22328,PR0T_READ|PR0T_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS,-1,0) = 0x7f721ca75000
close(3) = 0
 mprotect(0x7f721ca73000,4096,PROT_READ) = 0
 munmap(0x7f721d429000,45372)
                                                                                         = 0
 openat(AT_FDCWD,"/etc/protocols",0_RDONLY|0_CLOEXEC) = 3 lseek(3,0,SEEK_CUR) = 0
= 0 fstat(3,{st_mode=S_IFREG|0644,st_size=2932,...}) = 0 read(3,"# Internet (IP) protocols\n#\n# Up"...,4096) lseek(3,0,SEEK_CUR) = 2932
                                                                                     n# Up"...,4096) = 2932
= 2932
 read(3,"",4096)
                                                                                         = 0
 close(3)
  eventfd2(0,EFD_CLOEXEC)
                                                                                       = 3
                                                                                         = 0x2 (flags O_RDWR)
 fcntl(3,F_GETFL)
fcntl(3,F_SETFL,O_RDWR|O_NONBLOCK)
                                                                                      = 0
 fcntl(3,F_GETFL)
                                                                                        = 0x802 (flags O_RDWR|O_NONBLOCK)
 fcntl(3,F_SETFI,O_RDWR|O_NONBLOCK) = 0
getrandom("\x56\x80\x68\xc8\xe6\xdc\x06\x42\x09\xc7\xdc\xca\x57\xe1\xa2\x7d",16,0) = 16
  getrandom("\xc0\xe4\x95\x51\x14\x81\x6c\x19\x4f\x9b\xf3\xa3\xb3\x1d\x9e\x7a",16,0) = 16 eventfd2(0,EFD\_CLOEXEC) = 4 
                                                                                      = 4
= 0x2 (flags O_RDWR)
 fcntl(4,F_GETFL)
fcntl(4,F_SETFL,O_RDWR|O_NONBLOCK)
                                                                                      = 0
 fcntl(4,F_GETFL)
fcntl(4,F_SETFL,O_RDWR|O_NONBLOCK)
                                                                                        = 0x802 (flags O_RDWR|O_NONBLOCK)
                                                                                     = 0
 epoll_create1(EPOLL_CLOEXEC)
                                                                                          = 5
 epoll_ctl(5,EPOLL_CTL_ADD,4,{0,{u32=4224474464,u64=94798447664480}}) = 0
 epoll_cT1(5,EPOLL_CTL_MOD,4,{EPOLLIN,{u32=4224474464,u64=94798447664480}}) = 0
mmap(NULL,8392704,PROT_NONE,MAP_PRIVATE|MAP_ANONYMOUS|MAP_STACK,-1,0) = 0x7f721c266000
 mprotect(0x7f721c267000,8388608,PROT_READ|PROT_WRITE) = 0
clone(child_stack=0x7f721ca65d30,flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SET
 {\tt TLS|CLONE\_PARENT\_SETTID|CLONE\_CHILD\_CLEARTID,parent\_tid=[2943], tls=0x7f721ca66700, child\_tidptr=0x7f721ca669d0)=2943}
 eventfd2(0,EFD_CLOEXEC)
 fcntl(6,F_GETFL)
fcntl(6,F_SETFL,O_RDWR|O_NONBLOCK)
                                                                                       = 0x2 (flags O_RDWR)
                                                                                     = 0
= 0x802 (flags O_RDWR|O_NONBLOCK)
 fcntl(6,F_GETFL)
 fcntl(6,F_SETFL,O_RDWR|O_NONBLOCK)
                                                                                      = 0
 epoll create1(EPOLL CLOEXEC)
 epoll_ctl(7,EPOLL_CTL_ADD,6,{0,{u32=4224473792,u64=94798447663808}}) = 0
 epoll_ct1(7,EPOLL_CTL_MOD,6,{EPOLLIN,{u32=4224473792,u64=94798447663808}}) = 0
mmap(NULL,8392704,PROT_NONE,MAP_PRIVATE|MAP_ANONYMOUS|MAP_STACK,-1,0) = 0x7f721ba65000
 mprotect(0x7f721ba66000,8388608,PROT_READ|PROT_WRITE) = 0
 improvectivity in Industrial Council C
  eventfd2(0,EFD_CLOEXEC)
                                                                                       = 8
= 0x2 (flags O_RDWR)
 fcntl(8.F GETFL)
  fcnt1(8,F_SETFL,O_RDWR|O_NONBLOCK)
                                                                                      = 0
 fcntl(8,F GETFL)
                                                                                       = 0x802 (flags 0 RDWR|O NONBLOCK)
 fcnt1(8,F_SETFL,O_RDWR|O_NONBLOCK)
                                                                                     = 0
 fstat(0,{st_mode=S_IFCHR|0620,st_rdev=makedev(0x88,0),...}) = 0
read(0,"create 2 -1\n",1024) = 12
eventfd2(0,EFD_CLOEXEC) = 9
 fcntl(9,F_GETFL)
fcntl(9,F_SETFL,O_RDWR|O_NONBLOCK)
                                                                                        = 0x2 (flags O_RDWR)
```

```
= 0x802 (flags O_RDWR|O_NONBLOCK)
          fcnt1(9.F SETFL,O_RDWR|O_NONBLOCK)
                                                                                                                                                                                                                                                                                                                                                      = 0
          poll([{fd=9,events=POLLIN}],1,0)
                                                                                                                                                                                                                                                                                                                                                   = 0 (Timeout)
              socket(AF_NETLINK,SOCK_RAW|SOCK_CLOEXEC,NETLINK_ROUTE) = 10
      socket(AF_NETLINK,SOCK_RAW|SOCK_CLOEXEC,NETLINK_ROUTE) = 10
bind(10,{sa_family=AF_NETLINK,nl_pid=0,nl_groups=00000000},12) = 0
getsockname(10,{sa_family=AF_NETLINK,nl_pid=2942,nl_groups=00000000},[12]) = 0
sendto(10,{{len=20,type=RTM_GETLINK,flags=NLM_F_REQUEST|NLM_F_DUMP,seq=1619099638,pid=0},{ifi_family=AF_UNSPEC,...}},20,
0,{sa_family=AF_NETLINK,nl_pid=0,nl_groups=00000000},12) = 20
recvmsg(10,{msg_name={sa_family=AF_NETLINK,nl_pid=0,nl_groups=0000000},msg_namelen=12,msg_iov=[{iov_base=[{len=1316,type=RTM_NEWLINK,flags=NLM_F_MUTI,seq=1619099638,pid=2942},{ifi_family=AF_UNSPEC,ifi_type=ARPHRD_LOOPBACK,ifi_index=if_nametoin
dex("lo"),ifi_flags=IFF_UP|IFF_LOOPBACK|IFF_RUNNING|IFF_LOWER_UP,ifi_change=0},[{{nla_len=7,nla_type=IFLA_IFNAME},"lo"},{{nla_len=8,nla_type=IFLA_TXQLEN},1000},{{nla_len=5,nla_type=IFLA_DPERSTATE},0},{{nla_len=5,nla_type=IFLA_LNMMODE},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GRRIER},1},{{nla_len=12,nla_type=IFLA_QDISC},"noqueue"},{{nla_len=8,nla_type=IFLA_CARRIER},1},{{nla_len=8,nla_type=IFLA_CARRIER},1},{{nla_len=8,nla_type=IFLA_CARRIER},1},{{nla_len=8,nla_type=IFLA_CARRIER},1},{{nla_len=8,nla_type=IFLA_CARRIER},1},{{nla_len=8,nla_type=IFLA_CARRIER},1},{{nla_len=8,nla_type=IFLA_CARRIER},1},{{nla_len=8,nla_type=IFLA_CARRIER},1},{{nla_len=8,nla_type=IFLA_CARRIER},1},{{nla_len=8,nla_type=IFLA_CARRIER},1},{{nla_len=8,nla_type=IFLA_CARRIER},1},{{nla_len=8,nla_type=IFLA_CARRIER},1},{{nla_len=8,nla_type=IFLA_CARRIER},1},{{nla_len=8,nla_type=IFLA_CARRIER},1},{{nla_len=8,nla_type=IFLA_CARRIER},1},{{nla_len=8,nla_type=IFLA_CARRIER},1},{{nla_len=8,nla_type=IFLA_CARRIER},1},{{nla_len=8,nla_type=IFLA_CARRIER},1},{{nla_len=8,nla_type=IFLA_CARRIER},1},{{nla_len=8,nla_type=IFLA_CARRIER},1},{{nl
          _CHANGES],0],{{nla_len=5,nla_type=IFLA_PROTO_DOWN},0],{{nla_len=8,nla_type=IFLA_CARRIER_DUP_COUNT],0},{{nla_len=8,nla_type=IFLA_CARRIER_DOWN_COUNT],0},{{nla_len=36,nla_type=IFLA_MAP},{mem_start=0,mem_end=0,base_addr=0,irq=0,dma=0,port=0}},{{!s=0,tx_packets=0,rx_bytes=0,rx_errors=0,tx_errors=0,rx_dropped=0,tx_dropped=0,multicast=0,collisions=0,r
            x_length_errors=0,rx_over_errors=0,rx_crc_errors=0,rx_frame_errors=0,rx_fifo_errors=0,rx_missed_errors=0,tx_aborted_error
          ANDIETO, ((Inia_len=12, Inia_type=IFIA_XDP), ((Inia_len=5, Inia_type=IFIA_XDP), ((Inia_len=12, Inia_ty
        recvmsg(10,{msg_name={sa_family=AF_NETLINK,nl_pid=0,nl_groups=00000000},msg_namelen=12,msg_iov=[{iov_base=[{{len=1336,type=RTM_NEWLINK,flags=NLM_F_MULTI,seq=1619099638,pid=2942},{ifi_family=AF_UNSPEC,ifi_type=ARPHRD_ETHER,ifi_index=if_nametoindex ("dummy0"),ifi_flags=IFF_BROADCAST|IFF_NOARP,ifi_change=0},[{{nla_len=11,nla_type=IFLA_IFNAME},"dummy0"},{{nla_len=8,nla_type=IFLA_TXQLEN},1000},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_LINKMODE},0},{{nla_len=8,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla_type=IFLA_DPERSTATE},2},{{nla_len=5,nla
          ype=IFLA_TXQLEB},1000}, {{nla_len=5,nla_type=IFLA_UPERSTATE},?}, {{nla_len=5,nla_type=IFLA_LINKMODE},}, {{nla_len=8,nla_type=IFLA_MIV}, 1500}, {{nla_len=8,nla_type=IFLA_MIV}, 1500}, {{nla_len=8,nla_type=IFLA_MIV}, 0}, {{nla_len=8,nla_type=IFLA_CARRIER}, 1}, {{nla_len=9,nla_type=IFLA_MIV}, 0}, {{nla_len=8,nla_type=IFLA_CARRIER}, 0}, {{nla_len=8,nla_type=IFLA_MIV}, 0}, {{nla_len=8,nla_type
          10, nla\_type=IFLA\_ADDRESS\}, "\\x26\\x0b\\x15\\xcf\\xdb\\x28"\}, {\{nla\_len=10, nla\_type=IFLA\_BROADCAST\}, "\\xff\\xff\\xff\\xff"\}, {\{nla\_len=196, nla\_type=IFLA\_STATS64\}, \{rx\_packets=0, tx\_packets=0, tx\_bytes=0, tx\_bytes=0, tx\_errors=0, tx\_errors=0, tx\_drope and the property of the
          ped=0,tx_dropped=0,multicast=0,collisions=0,rx_length_errors=0,rx_over_errors=0,rx_crc_errors=0,rx_frame_errors=0,rx_fifo_errors=0,rx_missed_errors=0,tx_aborted_errors=0,tx_carrier_errors=0,tx_fifo_errors=0,tx_heartbeat_errors=0,tx_windo
          w_errors=0,rx_compressed=0,tx_compressed=0,rx_nohandler=0}},{{nla_len=100,nla_type=IFLA_STATS},{rx_packets=0,tx_packets=0,tx_packets=0,rx_bytes=0,tx_bytes=0,rx_errors=0,rx_dropped=0,tx_dropped=0,multicast=0,collisions=0,rx_length_errors=0,rx_over_errors=0,rx_crc_errors=0,rx_frame_errors=0,rx_fifo_errors=0,rx_missed_errors=0,tx_aborted_errors=0,tx_carrie
        =0,rx_over_errors=0,rx_crc_errors=0,rx_frame_errors=0,rx_fifo_errors=0,rx_missed_errors=0,tx_aborted_errors=0,tx_crrierors=0,tx_errors=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_compressed=0,tx_co
```

```
EPT_LOCAL-1] = 0, [IPV4_DEVCONF_SRC_VMARK-1] = 0, [IPV4_DEVCONF_PROXY_ARP_PVLAN-1] = 0, [IPV4_DEVCONF_ROUTE_LOCALNET-1] = 0, [IPV4_DEVCONF_IGNORE_ROUTE_LOCALNET-1] = 0, [IPV4_DEVCONF_IGNORE_ROUTE_VINTERVAL-1] = 10000, [IPV4_DEVCONF_IGNORE_ROUTE_VINTERVAL-1] = 0, [IPV4_DEVCONF_DROP_UNICAST_IN_L2_MULTICAST-1] = 0, [IPV4_DEVCONF_DROP_UNICAST_IN_L2_MULTICAST-1] = 0, [IPV4_DEVCONF_DROP_GRATUITOUS_ARP-1] = 0, [IPV4_DEVCONF_BC_FORWARDING-1] = 0]}}, {{1}10000, [IPV4_DEVCONF_DROP_GRATUITOUS_ARP-1] = 0, [IPV4_DEVCONF_BC_FORWARDING-1] = 0]}}}, {{1}101000, [IPV4_DEVCONF_BC_FORWARDING-1] = 0]}}, {{1}101000, [IPV4_DEVCONF_BC_FORWARDING-1] = 0]}}, {{1}101000, [IPV4_DEVCONF_BC_FORWARDING-1] = 0]}}, {{1}1010000, [IPV4_DEVCONF_BC_FORWARDING-1] = 0]}}, {{1}1010000, [IPV4_DEVCONF_FORWARDING] = 0, [DEVCONF_HOPLIMIT] = 64, [DEVCONF_MIG] = 1500, [DEVCONF_ACCEPT_RA] = 1, [DEVCONF_ACCEPT_RADIRGTS] = 1, [DEVCONF_FORWARDING] = 0, [DEVCONF_DAD_TRANSMI TS] = 1, [DEVCONF_ART_SOLICITS] = -1, [DEVCONF_ACCEPT_RADIRGTS] = 1, [DEVCONF_RRT_SOLICITS] = -1, [DEVCONF_ACCEPT_RADIRGTS] = 4000, [DEVCONF_RRT_SOLICIT_DELAY] = 10000, [DEVCONF_MAX_DESSES] = 16, [DEVCONF_FORCE_MLD_VERSION] = 0, [DEVCONF_ACCEPT_RA_DEFRT] = 3, [DEVCONF_ACCEPT_RA_DEFRT] = 3, [DEVCONF_ACCEPT_RA_DEFRT] = 1, [DEVCONF_ACCEPT_RA_DEFRT] = 1, [DEVCONF_ACCEPT_RA_DEFRT] = 1, [DEVCONF_ACCEPT_RA_DEFRT] = 1, [DEVCONF_ACCEPT_RA_DEFRT] = 0, [DEVCONF_AC
         EPT_LOCAL-1] = 0,[IPV4_DEVCONF_SRC_VMARK-1] = 0,[IPV4_DEVCONF_PROXY_ARP_PVLAN-1] = 0,[IPV4_DEVCONF_ROUTE_LOCALNET-
    PSIAIS_MIB_INDISCARDS] = 0, [IPSIAIS_MIB_UDIDISCARDS] = 0, [IPSIAIS_MIB_UDINOROTES] = 0, [IPSIAIS_MIB_REASMIIMEDUT] = 0, [IPSIAIS_MIB_REASMIIMEDUT] = 0, [IPSIAIS_MIB_REASMIIMEDUT] = 0, [IPSIAIS_MIB_INECASTORIS] = 0, [IPSIAIS_MIB_INECASTORIS] = 0, [IPSIAIS_MIB_INECASTORIS] = 0, [IPSIAIS_MIB_INECASTORIS] = 0, [IPSIAIS_MIB_UTBCASTORIS] = 0, [
       R_GEN_MODE}, IN6_ADDR_GEN_MODE_EUI64}]}]}}}, {{len=1316, type=RTM_NEWLINK,flags=NLM_F_MULTI,seq=1619099638,pid=2942}, {ifi_family=AF_UNSPEC,ifi_type=ARPHRD_ETHER,ifi_index=if_nametoindex("eth0"),ifi_flags=IFF_UP|IFF_BROADCAST|IFF_RUNNING|IFF_MULTIC
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    EPI_LOCAL-I] = 0,[IPV4_DEVCONF_SRC_VMARK-I] = 0,[IPV4_DEVCONF_PROXT_ARP_PVLAN-I] = 0,[IPV4_DEVCONF_ROUTE_LOCALREI-I] = 0,
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4_DEVCONF_IGMORE_ROUTES_WITH_LINKDOWN-I] = 0, [IPV4_DEVCONF_DROP_UNICAST_IN_L2_MULTICAST-I] = 0, [IPV4_DEVCONF_DROP_GRATUITOU
S_ARP-1] = 0, [IPV4_DEVCONF_BC_FORWARDING-1] = 0]}},{{nla_len=620,nla_type=AF_INET6}, [{{nla_len=8,nla_type=IFLA_INET6_FLA}}
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    GS), T_RS_SEMIIT_READIT, \(\tau_{\text{Int}} = \text{Int} = \text{Int}
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DROP_UNICAST_IN_L2_MULTICAST-1] = 0, [IPV4_DEVCONF_DROP_GRATUITOUS_ARP-1] = 0, [IPV4_DEVCONF_BC_FORWARDING-1] = 0]}}, {{nalen=620,nla_type=AF_INET6}, [{{nla_len=8,nla_type=IFLA_INET6_FLAGS},0}, {{nla_len=20,nla_type=IFLA_INET6_CACHEINF0}, {{max_reasm_len=65535,tstamp=25,reachable_time=39600,retrans_time=1000}}, {{(nla_len=208,nla_type=IFLA_INET6_CONF},[[DEVC ONF_FORWARDING] = 0, [DEVCONF_HOPLINTT] = 64, [DEVCONF_INTU6] = 1480, [DEVCONF_ACCEPT_RA] = 1, [DEVCONF_ACCEPT_REDIRECTS] = 1, [DEVCONF_AUTOCONF] = 1, [DEVCONF_ADD_TRANSMITS] = 1, [DEVCONF_RTS_SOLICIT_INTERVAL] = 4000, [DEVCONF_RTS_SOLICIT_DELAY] = 1000, [DEVCONF_USS_TEMPADDR] = -1, [DEVCONF_TEMP_VALID_LFT] = 604800, [DEVCONF_TEMP_PREFERED_LFT] = 86400, [DEVCONF_ACCEPT_RA_RTS_PIRS] = 1, [DEVCONF_ACCEPT_RA_PREF] = 0, [DEVCONF_TEMP_PREFERED_LFT] = 86400, [DEVCONF_ACCEPT_RA_DEFTR] = 1, [DEVCONF_ACCEPT_RA_PINF0] = 1, [DEVCONF_ACCEPT_RA_RTR_PREF] = 0, [DEVCONF_RTR_PROBE_INTERVAL] = 0, [DEVCONF_ACCEPT_RA_RT_INF0_MAX_PLEN] = 0, [DEVCONF_PROXY_NDP] = 0, [DEVCONF_PROTE_DAD] = -1, [DEVCONF_ACCEPT_SOURCE_ROUTE] = 0, [DEVCONF_MC_FORWARDING] = 0, [DEVCONF_DISABLE_IPV6] = 0, [DEVCONF_ACCEPT_DAD] = -1, [DEVCONF_MC_PROXY_NDP] = 0, [DEVCONF_ACCEPT_DAD] = -1, [DEVCONF_MC_PROXY_NDP] = 0, [DEVCONF_MC_PROXY_NDP] = 0, [DEVCONF_ACCEPT_DAD] = -1, [DEVCONF_MC_PROXY_NDP] = 0, [DEVCONF_MC_PROXY_NDP] = -1, [DEVCONF_MC_PROXY_NDP] =
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  Type=RTM_EWADDR, flags=NLM_F_MULTI,seq=1619099639,pid=2942},fid_family=AF_INET_ifa_prefixlen=8,ifa_flags=IFA_FPERNANENT,ifa_scope=RT_SCOPE_HOST,ifa_index=if_nametoindex("lo")},[{{nla_len=8,nla_type=IFA_ADDRESS},inet_addr("127.0.0.1")},{{nla_l
   en=8,
   nla_type=IFA_LOCAL},inet_addr("127.0.0.1")},{{nla_len=7,nla_type=IFA_LABEL},"lo"},{{nla_len=8,nla_type=IFA_FLAGS},IFA_F_
  PERMANENT}
     .{{nla_len=20,nla_type=IFA_CACHEINF0},{ifa_prefered=4294967295,ifa_valid=4294967295,cstamp=98,tstamp=98}}}},,{{len=88,ty
      NEWADDR,flags=NLM_F_MULTI,seq=1619099639,pid=2942},{ifa_family=AF_INET,ifa_prefixlen=20,ifa_flags=IFA_F_PERMANENT,ifa_s
  COPE_UNIVERSE, ifa_index=if_nametoindex("eth0")}, [{{nla_len=8,nla_type=IFA_ADDRESS}, inet_addr("172.24.127.151")}, {{nla_len=8,nla_type=IFA_ADDRESS}}, inet_addr("172.24.127.151")}, [{nla_len=8,nla_type=IFA_ADDRESS}], inet_addr("172.24.127.151")}, [{nla_len=8,nla_
   e=IFA_LOCAL}, inet_addr("172.24.127.151")}, {{nla_len=8,nla_type=IFA_BROADCAST}, inet_addr("172.24.127.255")}, {{nla_len=9,nla_type=IFA_BROADCAST}, inet_addr("172.24.127.255")}, {{nla_len=1, inet_addr("172.24.127.255")}}, {{nla_len=1, inet_addr("172.24.127.255")}}}, {{nla_len=1, inet_addr("172.24.127.255")}}}, {{nla_len=1, inet_addr("172.24.127.255")}}, {{nla_len=1, inet_addr("172.24.127.255")}}}, {{nla_len=1, inet_ad
  A_LABEL}, "eth0"}, {{nla_len=8,nla_type=IFA_FLAGS}, IFA_F_PERMANENT}, {{nla_len=20,nla_type=IFA_CACHEINFO}}, {ifa_prefered=429496}
   7295,ifa_valid=4294967295,cstamp=99},tstamp=99}}]],iov_len=4096}],msg_iovlen=1,msg_controllen=0,msg_flags=0},0) = 164
  recvmsg(10, {msg_name={sa_family=AF_NETLINK,nl_pid=0,nl_groups=00000000},msg_namelen=12,msg_iov=[{iov_base=[{{len=72, type=RTM_NEWADDR,flags=NLM_F_MULTI,seq=1619099639,pid=2942},{ifa_family=AF_INET6,ifa_prefixlen=128,ifa_flags=IFA_F_PERMANENT,
  ifa_scope=RT_SCOPE_HOST,ifa_index=if_nametoindex("lo")},[{{nla_len=20,nla_type=IFA_ADDRESS},inet_pton(AF_INET6,"::1")},{{nla_len=20,nla_type=IFA_CACHEINF0},{ifa_prefered=4294967295,ifa_valid=4294967295,cstamp=98,tstamp=98}},{{nla_len=8,
 recvmsg(10,{msg_name={sa_family=AF_NETLINK,nl_pid=0,nl_groups=00000000},msg_namelen=12,msg_iov=[{iov_base={{len=20,
   type=NLMSG_DONE,flags=NLM_F_MULTI,seq=1619099639,pid=2942},0},iov_len=4096}],msg_iovlen=1,msg_controllen=0,
   msg_flags=0},0) = 20
  socket(AF_INET,SOCK_STREAM|SOCK_CLOEXEC,IPPROTO_TCP) = 10
setsockopt(10,SOL_SOCKET,SO_REUSEADDR,[1],4) = 0
   bind(10, {sa_family=AF_INET, sin_port=htons(4042), sin_addr=inet_addr("127.0.0.1")},16) = 0
  listen(10,100)
```

 $\label{lem:mem_end} $$ mem_end=0, base_addr=0, irq=0, dma=0, port=0\}, {\{nla_len=8, nla_type=IFLA_ADDRESS\}, "\\ x00\\x00\\x00"\}, {\{nla_len=8, nla_type=IFLA_BROADCAST\}, "\\x00\\x00\\x00"\}, {\{nla_len=196, nla_type=IFLA_STATS64\}, \{rx_packets=0, tx_packets=0, tx_$

```
getsockname(10,{sa_family=AF_INET,sin_port=htons(4042),sin_addr=inet_addr("127.0.0.1")},[128->16]) = 0
wilters, 110/00/00/00/00, 65 - 6 color(child_stack=NULL,flags=CLONE_CHILD_CLEARTID|CLONE_CHILD_SETTID|SIGCHLD,child_tidptr=0x7f721ca7e8d0) = 2945 poll([{fd=9,events=POLLIN}],1,0) = 1 ([{fd=9,revents=POLLIN}])
                                        = 1 ([{fd=9,revents=POLLIN}])
= 8
= 0 (Timeout)
read(9,"\1\0\0\0\0\0\0\0",8)
poll([{fd=9,events=POLLIN}],1,0)
poll([{fd=9,events=POLLIN}],1,0)
write(6,"\1\0\0\0\0\0\0\0\0\0\",8)
                                         = 0 (Timeout)
                                          = 8
poll([{fd=9,events=POLLIN}],1,-1)
read(9,"\1\0\0\0\0\0\0\0",8)
                                         = 1 ([{fd=9,revents=POLLIN}])
                                          = 8
poll([{fd=9,events=POLLIN}],1,0)
poll([{fd=9,events=POLLIN}],1,-1)
                                         = 0 (Timeout)
= 1 ([{fd=9,revents=POLLIN}])
read(9,"\1\0\0\0\0\0\0\0",8)
poll([{fd=9,events=POLLIN}],1,0)
                                         = 0 (Timeout)
poll([{fd=9,events=POLLIN}],1,0)
write(6,"\1\0\0\0\0\0\0",8)
                                         = 0 (Timeout)
                                          = 8
                                         = 1 ([{fd=9,revents=POLLIN}])
= 8
poll([{fd=9,events=POLLIN}],1,-1)
read(9,"\1\0\0\0\0\0\0\0\0\0",8)
poll([{fd=9,events=POLLIN}],1,0)
poll([{fd=9,events=POLLIN}],1,0)
                                         = 0 (Timeout)
                                         = 0 (Timeout)
write(6,"\1\0\0\0\0\0\0\0",8)
poll([{fd=9,events=POLLIN}],1,-1)
                                          = 8
                                         = 1 ([{fd=9,revents=POLLIN}])
read(9,"\1\0\0\0\0\0\0\0",8)
poll([{fd=9,events=POLLIN}],1,0)
                                          = 8
                                         = 0 (Timeout)
= 0 (Timeout)
= 8
                                           = 8
= 1 ([{fd=3,revents=POLLIN}])
                                          = 8
                                           = 8
                                             = 0
close(6)
                                             = 0
close(5)
close(4)
                                             = 0
= ?
close(3)
exit_group(0)
+++ exited with 0 +++
```

4 Вывод

Strace и ltrace — удобные инструменты для системных вызовов, они полезны приотладке и тестировании программ. Несмотря на то, что протоколы по умолчанию кажутся слишком объемными, информацию в них можно отфильтровать с помощью ключей.

Утилита strасе позволяет отслеживать большинство системных вызовов, тем не менее если нужно более точно пронаблюдать за узкими аспектами существуют и другие утилиты, такие как: ltrace и ftrace. Такие утилиты пригодились мне для изучения работы программ и поиска ошибок в моих лабораторных работах.