Московский Авиационный Институт (Национальный Исследовательский Университет)

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# Лабораторная работа №8 по курсу

**«Операционные системы» ДИАГНОСТИКА ПРОГРАММНОГО ОБЕСПЕЧЕНИЯ**

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Оценка: Дата: Подпись:

Москва, 2023.

# Постановка задачи

**Цель работы**

Приобретение практических навыков диагностики работы программного обеспечения.

# Общие сведения о программе

При работе с утилитой strace нужно понимать, какие самые основные и важные системные вызовы отображаются в выводе на экран:

1. **int execve(const char\* filename, char\* const argv[], char\* const envp[])** - выполняет прогармму, заданную параметром filename[]. Программа должна быть или двоичным исполняемым файлом или скриптом, начинающимся со строки вида «#! *интерпретатор [aргументы]*». В последнем случае интерпретатор — это правильный путь к исполняемому файлу, который не является скриптом; этот файл будет выполнен как *интерпретатор* [arg]filename. argv - это массив строк в формате **key=value**, которые передаются новой программе в качестве окружения (environment). Как argv, так и envp завершаются нулевым указателем. К массиву аргументов и к окружению можно обратиться из функции **main()**, которая объявлена как **int main(int argc, char\* argv[], char\* envp[])**.
2. **int access(const char\* pathname, int mode)** – проверяет, имеет ли

вызвавший процесс прав доступа к файлу pathname. Если pathname является символьной ссылкой, то проверяются права доступа к файлу, на который она ссылается. Аргумент mode – это маска выполняемых проверок доступа; может быть равна значению **F\_OK** или состоять из одного или несколько побитово сложенных **R\_OK**, **W\_OK** и **X\_OK**. **F\_OK** проверяет существование файла. **R\_OK**, **W\_OK** и **X\_OK** запрашивают проверку,

соответственно, существования файла и возможности его чтения, записи или выполнения.

1. **ssize\_t read(int fd, void\* buf, size\_t count)** – пытается прочитать count байт из файлового дескриптора fd в буфер начинающийся по адресу buf. Для файлов, поддерживающих смещения, операция чтения начинается с текущего файлового смещения и файловое смещение увеличивается на количество прочитанных байт. Если текущее файловое смещение находится за концом файла, то ничего не читается и **read()** возвращает ноль.

Если значение count равно 0, то **read()** может обнаружить ошибки, описанные далее. При отсутствии ошибок, или если **read()** не выполняет проверки, то read() с count равным 0 возвращает 0 и ничего не меняет.

При успешном выполнении возвращается количество прочитанных байт (ноль означает конец файла), а позиция в файле увеличивается на это значение.

# void\* mmap(void\* addr, size\_t length, int prot, int flags, int fd, off\_t offset)

– создает новое отображение в виртуальном адресном пространстве вызывающего процесса.

# Общий метод и алгоритм решения.

Для изучения утилиты strace опробуем ее работу на некотрых программах:

* 1. Запустим strace с выводом содержимого текстового файла.
  2. Проверим работу strace на примере запуска лабораторной работы №4.

# Основные файлы программы

**LAB1**

aleksandr@dots:~/labsOC/lab1var13$ strace ./main

execve("./main", ["./main"], 0x7fffb2d5cb40 /\* 45 vars \*/) = 0

brk(NULL)

= 0x55ab40943000

arch\_prctl(0x3001 /\* ARCH\_??? \*/, 0x7ffcfc3e1410) = -1 EINVAL (Недопустимый

аргумент)

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7ff346244000

access("/etc/ld.so.preload", R\_OK) = -1 ENOENT (Нет такого файла или

каталога)

openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC) = 3

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=68703, ...}, AT\_EMPTY\_PATH)

=0

mmap(NULL, 68703, PROT\_READ, MAP\_PRIVATE, 3, 0) = 0x7ff346233000

close(3)

=0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libstdc++.so.6",

O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=2260296, ...},

AT\_EMPTY\_PATH) = 0

mmap(NULL, 2275520, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0)

= 0x7ff346000000

mprotect(0x7ff34609a000, 1576960, PROT\_NONE) = 0mmap(0x7ff34609a000, 1118208, PROT\_READ|PROT\_EXEC,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x9a000) = 0x7ff34609a000

mmap(0x7ff3461ab000, 454656, PROT\_READ,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1ab000) = 0x7ff3461ab000

mmap(0x7ff34621b000, 57344, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x21a000) =

0x7ff34621b000

mmap(0x7ff346229000, 10432, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7ff346229000

close(3)

=0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libgcc\_s.so.1",

O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=125488, ...}, AT\_EMPTY\_PATH)

=0

mmap(NULL, 127720, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) =

0x7ff345fe0000

mmap(0x7ff345fe3000, 94208, PROT\_READ|PROT\_EXEC,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x3000) = 0x7ff345fe3000

mmap(0x7ff345ffa000, 16384, PROT\_READ,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1a000) = 0x7ff345ffa000

mmap(0x7ff345ffe000, 8192, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1d000) = 0x7ff345ffe000

close(3)

=0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libc.so.6", O\_RDONLY|O\_CLOEXEC)

=3

read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0P\237\2\0\0\0\0\0"..., 832) =

832

pread64(3, "\6\0\0\0\4\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0"..., 784,

64) = 784

pread64(3, "\4\0\0\0 \0\0\0\5\0\0\0GNU\0\2\0\0\300\4\0\0\0\3\0\0\0\0\0\0\0"..., 48,

848) = 48

pread64(3,

"\4\0\0\0\24\0\0\0\3\0\0\0GNU\0\244;\374\204(\337f#\315I\214\234\f\256\271\32"...,

68, 896) = 68

newfstatat(3, "", {st\_mode=S\_IFREG|0755, st\_size=2216304, ...},

AT\_EMPTY\_PATH) = 0

pread64(3, "\6\0\0\0\4\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0"..., 784,

64) = 784

mmap(NULL, 2260560, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0)

= 0x7ff345c00000

mmap(0x7ff345c28000, 1658880, PROT\_READ|PROT\_EXEC,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x28000) = 0x7ff345c28000

mmap(0x7ff345dbd000, 360448, PROT\_READ,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1bd000) =

0x7ff345dbd000mmap(0x7ff345e15000, 24576, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x214000) =

0x7ff345e15000

mmap(0x7ff345e1b000, 52816, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7ff345e1b000

close(3)

=0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libm.so.6", O\_RDONLY|O\_CLOEXEC)

=3

read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=940560, ...}, AT\_EMPTY\_PATH)

=0

mmap(NULL, 942344, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) =

0x7ff345ef9000

mmap(0x7ff345f07000, 507904, PROT\_READ|PROT\_EXEC,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xe000) = 0x7ff345f07000

mmap(0x7ff345f83000, 372736, PROT\_READ,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x8a000) = 0x7ff345f83000

mmap(0x7ff345fde000, 8192, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xe4000) = 0x7ff345fde000

close(3)

=0

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7ff346231000

arch\_prctl(ARCH\_SET\_FS, 0x7ff3462323c0) = 0

set\_tid\_address(0x7ff346232690)

= 5577

set\_robust\_list(0x7ff3462326a0, 24) = 0

rseq(0x7ff346232d60, 0x20, 0, 0x53053053) = 0

mprotect(0x7ff345e15000, 16384, PROT\_READ) = 0

mprotect(0x7ff345fde000, 4096, PROT\_READ) = 0

mprotect(0x7ff345ffe000, 4096, PROT\_READ) = 0

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7ff34622f000

mprotect(0x7ff34621b000, 45056, PROT\_READ) = 0

mprotect(0x55ab3f765000, 4096, PROT\_READ) = 0

mprotect(0x7ff34627e000, 8192, PROT\_READ) = 0

prlimit64(0, RLIMIT\_STACK, NULL, {rlim\_cur=8192\*1024,

rlim\_max=RLIM64\_INFINITY}) = 0

munmap(0x7ff346233000, 68703)

=0

getrandom("\x60\xe7\x4e\xf0\x98\xec\x48\x0c", 8, GRND\_NONBLOCK) = 8

brk(NULL)

= 0x55ab40943000

brk(0x55ab40964000)

= 0x55ab40964000

futex(0x7ff34622977c, FUTEX\_WAKE\_PRIVATE, 2147483647) = 0

newfstatat(0, "", {st\_mode=S\_IFCHR|0620, st\_rdev=makedev(0x88, 0), ...},

AT\_EMPTY\_PATH) = 0

read(0, VVIHBJ bkjbn

"VVIHBJ bkjbn\n", 1024)

= 13

pipe2([3, 4], 0)

=0pipe2([5, 6], 0)

=0

pipe2([7, 8], 0)

=0

write(4, "\f\0\0\0\0\0\0\0", 8)

=8

write(4, "VVIHBJ bkjbn", 12)

= 12

clone(child\_stack=NULL,

flags=CLONE\_CHILD\_CLEARTID|CLONE\_CHILD\_SETTID|SIGCHLD,

child\_tidptr=0x7ff346232690) = 5580

clone(child\_stack=NULL,

flags=CLONE\_CHILD\_CLEARTID|CLONE\_CHILD\_SETTID|SIGCHLD,

child\_tidptr=0x7ff346232690) = 5581

wait4(-1, NULL, 0, NULL)

= 5580

--- SIGCHLD {si\_signo=SIGCHLD, si\_code=CLD\_EXITED, si\_pid=5580,

si\_uid=1000, si\_status=0, si\_utime=0, si\_stime=0} ---

close(6)

=0

dup2(5, 0)

=0

read(0, "vvihbj\_bkjbn\n", 1024)

= 13

newfstatat(1, "", {st\_mode=S\_IFCHR|0620, st\_rdev=makedev(0x88, 0), ...},

AT\_EMPTY\_PATH) = 0

write(1, "vvihbj\_bkjbn\n", 13vvihbj\_bkjbn

)

= 13

--- SIGCHLD {si\_signo=SIGCHLD, si\_code=CLD\_EXITED, si\_pid=5581,

si\_uid=1000, si\_status=0, si\_utime=0, si\_stime=0} ---

exit\_group(0)

=?

+++ exited with 0 +++

**LAB2**

aleksandr@dots:~/labsOC/lab2var7$

strace ./main 10

execve("./main", ["./main", "10"],

0x7ffc5f2075b8 /\* 45 vars \*/) = 0

brk(NULL)

= 0x557b0bafc000

arch\_prctl(0x3001 /\* ARCH\_??? \*/,

0x7ffec3f6cb30) = -1 EINVAL(Недопустимый аргумент)

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) =

0x7f4adfe13000

access("/etc/ld.so.preload", R\_OK)

= -1 ENOENT (Нет такого файла или

каталога)

openat(AT\_FDCWD, "/etc/ld.so.cache",

O\_RDONLY|O\_CLOEXEC) = 3

newfstatat(3, "",

{st\_mode=S\_IFREG|0644, st\_size=68703,

...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 68703, PROT\_READ,

MAP\_PRIVATE, 3, 0) = 0x7f4adfe02000

close(3)

= 0

openat(AT\_FDCWD,

"/lib/x86\_64-linux-gnu/libstdc++.so.6",

O\_RDONLY|O\_CLOEXEC) = 3

read(3,

"\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0

\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) =

832

newfstatat(3, "",

{st\_mode=S\_IFREG|0644, st\_size=2260296,

...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 2275520, PROT\_READ,

MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) =

0x7f4adfa00000

mprotect(0x7f4adfa9a000, 1576960,

PROT\_NONE) = 0

mmap(0x7f4adfa9a000, 1118208,

PROT\_READ|PROT\_EXEC,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3,

0x9a000) = 0x7f4adfa9a000mmap(0x7f4adfbab000, 454656, PROT\_READ,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3,

0x1ab000) = 0x7f4adfbab000

mmap(0x7f4adfc1b000, 57344,

PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3,

0x21a000) = 0x7f4adfc1b000

mmap(0x7f4adfc29000, 10432,

PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS,

-1, 0) = 0x7f4adfc29000

close(3)

= 0

openat(AT\_FDCWD,

"/lib/x86\_64-linux-gnu/libc.so.6",

O\_RDONLY|O\_CLOEXEC) = 3

read(3,

"\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0

\1\0\0\0P\237\2\0\0\0\0\0"..., 832) =

832

pread64(3,

"\6\0\0\0\4\0\0\0@\0\0\0\0\0\0\0@\0\0\0

\0\0\0\0@\0\0\0\0\0\0\0"..., 784, 64) =

784

pread64(3, "\4\0\0\0

\0\0\0\5\0\0\0GNU\0\2\0\0\300\4\0\0\0\3

\0\0\0\0\0\0\0"..., 48, 848) = 48

pread64(3,

"\4\0\0\0\24\0\0\0\3\0\0\0GNU\0\244;\37

4\204(\337f#\315I\214\234\f\256\271\32"

..., 68, 896) = 68

newfstatat(3, "",

{st\_mode=S\_IFREG|0755, st\_size=2216304,

...}, AT\_EMPTY\_PATH) = 0

pread64(3,

"\6\0\0\0\4\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0"..., 784, 64) =

784

mmap(NULL, 2260560, PROT\_READ,

MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) =

0x7f4adf600000

mmap(0x7f4adf628000, 1658880,

PROT\_READ|PROT\_EXEC,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3,

0x28000) = 0x7f4adf628000

mmap(0x7f4adf7bd000, 360448, PROT\_READ,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3,

0x1bd000) = 0x7f4adf7bd000

mmap(0x7f4adf815000, 24576,

PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3,

0x214000) = 0x7f4adf815000

mmap(0x7f4adf81b000, 52816,

PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS,

-1, 0) = 0x7f4adf81b000

close(3)

= 0

openat(AT\_FDCWD,

"/lib/x86\_64-linux-gnu/libm.so.6",

O\_RDONLY|O\_CLOEXEC) = 3

read(3,

"\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0

\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) =

832

newfstatat(3, "",

{st\_mode=S\_IFREG|0644, st\_size=940560,

...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 942344, PROT\_READ,

MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) =

0x7f4adfd1b000

mmap(0x7f4adfd29000, 507904,PROT\_READ|PROT\_EXEC,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3,

0xe000) = 0x7f4adfd29000

mmap(0x7f4adfda5000, 372736, PROT\_READ,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3,

0x8a000) = 0x7f4adfda5000

mmap(0x7f4adfe00000, 8192,

PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3,

0xe4000) = 0x7f4adfe00000

close(3)

= 0

openat(AT\_FDCWD,

"/lib/x86\_64-linux-gnu/libgcc\_s.so.1",

O\_RDONLY|O\_CLOEXEC) = 3

read(3,

"\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0

\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) =

832

newfstatat(3, "",

{st\_mode=S\_IFREG|0644, st\_size=125488,

...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 127720, PROT\_READ,

MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) =

0x7f4adfcfb000

mmap(0x7f4adfcfe000, 94208,

PROT\_READ|PROT\_EXEC,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3,

0x3000) = 0x7f4adfcfe000

mmap(0x7f4adfd15000, 16384, PROT\_READ,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3,

0x1a000) = 0x7f4adfd15000

mmap(0x7f4adfd19000, 8192,

PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3,

0x1d000) = 0x7f4adfd19000close(3)

= 0

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) =

0x7f4adfcf9000

arch\_prctl(ARCH\_SET\_FS, 0x7f4adfcfa3c0)

= 0

set\_tid\_address(0x7f4adfcfa690)

= 4718

set\_robust\_list(0x7f4adfcfa6a0, 24)

= 0

rseq(0x7f4adfcfad60, 0x20, 0,

0x53053053) = 0

mprotect(0x7f4adf815000, 16384,

PROT\_READ) = 0

mprotect(0x7f4adfd19000, 4096,

PROT\_READ) = 0

mprotect(0x7f4adfe00000, 4096,

PROT\_READ) = 0

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) =

0x7f4adfcf7000

mprotect(0x7f4adfc1b000, 45056,

PROT\_READ) = 0

mprotect(0x557b0b610000, 4096,

PROT\_READ) = 0

mprotect(0x7f4adfe4d000, 8192,

PROT\_READ) = 0

prlimit64(0, RLIMIT\_STACK, NULL,

{rlim\_cur=8192\*1024,

rlim\_max=RLIM64\_INFINITY}) = 0

munmap(0x7f4adfe02000, 68703)

= 0

getrandom("\x14\x00\x4d\x4a\xce\x1c\x0b

\x31", 8, GRND\_NONBLOCK) = 8brk(NULL)

= 0x557b0bafc000

brk(0x557b0bb1d000)

= 0x557b0bb1d000

futex(0x7f4adfc2977c,

FUTEX\_WAKE\_PRIVATE, 2147483647) = 0

clock\_gettime(CLOCK\_PROCESS\_CPUTIME\_ID,

{tv\_sec=0, tv\_nsec=2135287}) = 0

newfstatat(1, "",

{st\_mode=S\_IFCHR|0620,

st\_rdev=makedev(0x88, 0), ...},

AT\_EMPTY\_PATH) = 0

write(1, "1) Enter number of points

first "..., 401) Enter number of points

first player: ) = 40

newfstatat(0, "",

{st\_mode=S\_IFCHR|0620,

st\_rdev=makedev(0x88, 0), ...},

AT\_EMPTY\_PATH) = 0

read(0, 0

"0\n", 1024)

= 2

write(1, "2) Enter number of points

second"..., 412) Enter number of points

second player: ) = 41

read(0, 0

"0\n", 1024)

= 2

write(1, "3) Enter the number of this

tour"..., 343) Enter the number of this

tour: ) = 34

read(0, 1

"1\n", 1024)

= 2

write(1, "4) Enter number of throws

(K): ", 314) Enter number of throws

(K): ) = 31read(0, 1000

"1000\n", 1024)

= 5

write(1, "5) Enter number of

experements: ", 325) Enter number of

experements: ) = 32

read(0, 10000

"10000\n", 1024)

= 6

rt\_sigaction(SIGRT\_1,

{sa\_handler=0x7f4adf691870, sa\_mask=[],

sa\_flags=SA\_RESTORER|SA\_ONSTACK|SA\_REST

ART|SA\_SIGINFO,

sa\_restorer=0x7f4adf642520}, NULL, 8) =

0

rt\_sigprocmask(SIG\_UNBLOCK, [RTMIN

RT\_1], NULL, 8) = 0

mmap(NULL, 8392704, PROT\_NONE,

MAP\_PRIVATE|MAP\_ANONYMOUS|MAP\_STACK,

-1, 0) = 0x7f4adedff000

mprotect(0x7f4adee00000, 8388608,

PROT\_READ|PROT\_WRITE) = 0

rt\_sigprocmask(SIG\_BLOCK, ~[], [], 8)

= 0

clone3({flags=CLONE\_VM|CLONE\_FS|CLONE\_F

ILES|CLONE\_SIGHAND|CLONE\_THREAD|CLONE\_S

YSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID

|CLONE\_CHILD\_CLEARTID,

child\_tid=0x7f4adf5ff910,

parent\_tid=0x7f4adf5ff910,

exit\_signal=0, stack=0x7f4adedff000,

stack\_size=0x7fff00,

tls=0x7f4adf5ff640} =>

{parent\_tid=[4720]}, 88) = 4720

rt\_sigprocmask(SIG\_SETMASK, [], NULL,

8) = 0

mmap(NULL, 8392704, PROT\_NONE,

MAP\_PRIVATE|MAP\_ANONYMOUS|MAP\_STACK,-1, 0) = 0x7f4ade5fe000

mprotect(0x7f4ade5ff000, 8388608,

PROT\_READ|PROT\_WRITE) = 0

rt\_sigprocmask(SIG\_BLOCK, ~[], [], 8)

= 0

clone3({flags=CLONE\_VM|CLONE\_FS|CLONE\_F

ILES|CLONE\_SIGHAND|CLONE\_THREAD|CLONE\_S

YSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID

|CLONE\_CHILD\_CLEARTID,

child\_tid=0x7f4adedfe910,

parent\_tid=0x7f4adedfe910,

exit\_signal=0, stack=0x7f4ade5fe000,

stack\_size=0x7fff00,

tls=0x7f4adedfe640} =>

{parent\_tid=[4721]}, 88) = 4721

rt\_sigprocmask(SIG\_SETMASK, [], NULL,

8) = 0

mmap(NULL, 8392704, PROT\_NONE,

MAP\_PRIVATE|MAP\_ANONYMOUS|MAP\_STACK,

-1, 0) = 0x7f4adddfd000

mprotect(0x7f4adddfe000, 8388608,

PROT\_READ|PROT\_WRITE) = 0

rt\_sigprocmask(SIG\_BLOCK, ~[], [], 8)

= 0

clone3({flags=CLONE\_VM|CLONE\_FS|CLONE\_F

ILES|CLONE\_SIGHAND|CLONE\_THREAD|CLONE\_S

YSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID

|CLONE\_CHILD\_CLEARTID,

child\_tid=0x7f4ade5fd910,

parent\_tid=0x7f4ade5fd910,

exit\_signal=0, stack=0x7f4adddfd000,

stack\_size=0x7fff00,

tls=0x7f4ade5fd640} =>

{parent\_tid=[4722]}, 88) = 4722

rt\_sigprocmask(SIG\_SETMASK, [], NULL,

8) = 0mmap(NULL, 8392704, PROT\_NONE,

MAP\_PRIVATE|MAP\_ANONYMOUS|MAP\_STACK,

-1, 0) = 0x7f4add5fc000

mprotect(0x7f4add5fd000, 8388608,

PROT\_READ|PROT\_WRITE) = 0

rt\_sigprocmask(SIG\_BLOCK, ~[], [], 8)

= 0

clone3({flags=CLONE\_VM|CLONE\_FS|CLONE\_F

ILES|CLONE\_SIGHAND|CLONE\_THREAD|CLONE\_S

YSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID

|CLONE\_CHILD\_CLEARTID,

child\_tid=0x7f4adddfc910,

parent\_tid=0x7f4adddfc910,

exit\_signal=0, stack=0x7f4add5fc000,

stack\_size=0x7fff00,

tls=0x7f4adddfc640} =>

{parent\_tid=[4723]}, 88) = 4723

rt\_sigprocmask(SIG\_SETMASK, [], NULL,

8) = 0

mmap(NULL, 8392704, PROT\_NONE,

MAP\_PRIVATE|MAP\_ANONYMOUS|MAP\_STACK,

-1, 0) = 0x7f4adcdfb000

mprotect(0x7f4adcdfc000, 8388608,

PROT\_READ|PROT\_WRITE) = 0

rt\_sigprocmask(SIG\_BLOCK, ~[], [], 8)

= 0

clone3({flags=CLONE\_VM|CLONE\_FS|CLONE\_F

ILES|CLONE\_SIGHAND|CLONE\_THREAD|CLONE\_S

YSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID

|CLONE\_CHILD\_CLEARTID,

child\_tid=0x7f4add5fb910,

parent\_tid=0x7f4add5fb910,

exit\_signal=0, stack=0x7f4adcdfb000,

stack\_size=0x7fff00,

tls=0x7f4add5fb640} =>

{parent\_tid=[4724]}, 88) = 4724

rt\_sigprocmask(SIG\_SETMASK, [], NULL,8) = 0

mmap(NULL, 8392704, PROT\_NONE,

MAP\_PRIVATE|MAP\_ANONYMOUS|MAP\_STACK,

-1, 0) = 0x7f4adc5fa000

mprotect(0x7f4adc5fb000, 8388608,

PROT\_READ|PROT\_WRITE) = 0

rt\_sigprocmask(SIG\_BLOCK, ~[], [], 8)

= 0

clone3({flags=CLONE\_VM|CLONE\_FS|CLONE\_F

ILES|CLONE\_SIGHAND|CLONE\_THREAD|CLONE\_S

YSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID

|CLONE\_CHILD\_CLEARTID,

child\_tid=0x7f4adcdfa910,

parent\_tid=0x7f4adcdfa910,

exit\_signal=0, stack=0x7f4adc5fa000,

stack\_size=0x7fff00,

tls=0x7f4adcdfa640} =>

{parent\_tid=[4725]}, 88) = 4725

rt\_sigprocmask(SIG\_SETMASK, [], NULL,

8) = 0

mmap(NULL, 8392704, PROT\_NONE,

MAP\_PRIVATE|MAP\_ANONYMOUS|MAP\_STACK,

-1, 0) = 0x7f4adbdf9000

mprotect(0x7f4adbdfa000, 8388608,

PROT\_READ|PROT\_WRITE) = 0

rt\_sigprocmask(SIG\_BLOCK, ~[], [], 8)

= 0

clone3({flags=CLONE\_VM|CLONE\_FS|CLONE\_F

ILES|CLONE\_SIGHAND|CLONE\_THREAD|CLONE\_S

YSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID

|CLONE\_CHILD\_CLEARTID,

child\_tid=0x7f4adc5f9910,

parent\_tid=0x7f4adc5f9910,

exit\_signal=0, stack=0x7f4adbdf9000,

stack\_size=0x7fff00,

tls=0x7f4adc5f9640} =>

{parent\_tid=[4726]}, 88) = 4726rt\_sigprocmask(SIG\_SETMASK, [], NULL,

8) = 0

mmap(NULL, 8392704, PROT\_NONE,

MAP\_PRIVATE|MAP\_ANONYMOUS|MAP\_STACK,

-1, 0) = 0x7f4adb5f8000

mprotect(0x7f4adb5f9000, 8388608,

PROT\_READ|PROT\_WRITE) = 0

rt\_sigprocmask(SIG\_BLOCK, ~[], [], 8)

= 0

clone3({flags=CLONE\_VM|CLONE\_FS|CLONE\_F

ILES|CLONE\_SIGHAND|CLONE\_THREAD|CLONE\_S

YSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID

|CLONE\_CHILD\_CLEARTID,

child\_tid=0x7f4adbdf8910,

parent\_tid=0x7f4adbdf8910,

exit\_signal=0, stack=0x7f4adb5f8000,

stack\_size=0x7fff00,

tls=0x7f4adbdf8640} =>

{parent\_tid=[4727]}, 88) = 4727

rt\_sigprocmask(SIG\_SETMASK, [], NULL,

8) = 0

mmap(NULL, 8392704, PROT\_NONE,

MAP\_PRIVATE|MAP\_ANONYMOUS|MAP\_STACK,

-1, 0) = 0x7f4adadf7000

mprotect(0x7f4adadf8000, 8388608,

PROT\_READ|PROT\_WRITE) = 0

rt\_sigprocmask(SIG\_BLOCK, ~[], [], 8)

= 0

clone3({flags=CLONE\_VM|CLONE\_FS|CLONE\_F

ILES|CLONE\_SIGHAND|CLONE\_THREAD|CLONE\_S

YSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID

|CLONE\_CHILD\_CLEARTID,

child\_tid=0x7f4adb5f7910,

parent\_tid=0x7f4adb5f7910,

exit\_signal=0, stack=0x7f4adadf7000,

stack\_size=0x7fff00,

tls=0x7f4adb5f7640} =>{parent\_tid=[4728]}, 88) = 4728

rt\_sigprocmask(SIG\_SETMASK, [], NULL,

8) = 0

mmap(NULL, 8392704, PROT\_NONE,

MAP\_PRIVATE|MAP\_ANONYMOUS|MAP\_STACK,

-1, 0) = 0x7f4ada5f6000

mprotect(0x7f4ada5f7000, 8388608,

PROT\_READ|PROT\_WRITE) = 0

rt\_sigprocmask(SIG\_BLOCK, ~[], [], 8)

= 0

clone3({flags=CLONE\_VM|CLONE\_FS|CLONE\_F

ILES|CLONE\_SIGHAND|CLONE\_THREAD|CLONE\_S

YSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID

|CLONE\_CHILD\_CLEARTID,

child\_tid=0x7f4adadf6910,

parent\_tid=0x7f4adadf6910,

exit\_signal=0, stack=0x7f4ada5f6000,

stack\_size=0x7fff00,

tls=0x7f4adadf6640} =>

{parent\_tid=[4729]}, 88) = 4729

rt\_sigprocmask(SIG\_SETMASK, [], NULL,

8) = 0

futex(0x7f4adf5ff910,

FUTEX\_WAIT\_BITSET|FUTEX\_CLOCK\_REALTIME,

4720, NULL, FUTEX\_BITSET\_MATCH\_ANY) = 0

futex(0x7f4adedfe910,

FUTEX\_WAIT\_BITSET|FUTEX\_CLOCK\_REALTIME,

4721, NULL, FUTEX\_BITSET\_MATCH\_ANY) = 0

futex(0x7f4adddfc910,

FUTEX\_WAIT\_BITSET|FUTEX\_CLOCK\_REALTIME,

4723, NULL, FUTEX\_BITSET\_MATCH\_ANY) = 0

futex(0x7f4add5fb910,

FUTEX\_WAIT\_BITSET|FUTEX\_CLOCK\_REALTIME,

4724, NULL, FUTEX\_BITSET\_MATCH\_ANY) = 0

munmap(0x7f4adedff000, 8392704)

= 0munmap(0x7f4ade5fe000, 8392704)

= 0

futex(0x7f4adc5f9910,

FUTEX\_WAIT\_BITSET|FUTEX\_CLOCK\_REALTIME,

4726, NULL, FUTEX\_BITSET\_MATCH\_ANY) = 0

munmap(0x7f4adddfd000, 8392704)

= 0

munmap(0x7f4add5fc000, 8392704)

= 0

munmap(0x7f4adcdfb000, 8392704)

= 0

futex(0x7f4adadf6910,

FUTEX\_WAIT\_BITSET|FUTEX\_CLOCK\_REALTIME,

4729, NULL, FUTEX\_BITSET\_MATCH\_ANY) =

-1 EAGAIN (Ресурс временно недоступен)

munmap(0x7f4adc5fa000, 8392704)

= 0

write(1, "Probability of the first

player "..., 47Probability of the first

player to win: 0.4993

) = 47

write(1, "Probability of the second

player"..., 48Probability of the second

player to win: 0.4963

) = 48

clock\_gettime(CLOCK\_PROCESS\_CPUTIME\_ID,

{tv\_sec=0, tv\_nsec=255137302}) = 0

write(1, "Time: 0.253002\n", 15Time:

0.253002

)

= 15

lseek(0, -1, SEEK\_CUR)

= -1 ESPIPE (Недопустимая операция

смещения)

exit\_group(0)

**LAB3**

strace ./main

execve("./main", ["./main"], 0x7ffc06552c00 /\* 45 vars \*/) = 0

brk(NULL) = 0x563480d6c000

arch\_prctl(0x3001 /\* ARCH\_??? \*/, 0x7fff88a336b0) = -1 EINVAL (Недопустимый аргумент)

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f9205fc2000

access("/etc/ld.so.preload", R\_OK) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC) = 3

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=70735, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 70735, PROT\_READ, MAP\_PRIVATE, 3, 0) = 0x7f9205fb0000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libstdc++.so.6", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=2260296, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 2275520, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f9205c00000

mprotect(0x7f9205c9a000, 1576960, PROT\_NONE) = 0

mmap(0x7f9205c9a000, 1118208, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x9a000) = 0x7f9205c9a000

mmap(0x7f9205dab000, 454656, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1ab000) = 0x7f9205dab000

mmap(0x7f9205e1b000, 57344, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x21a000) = 0x7f9205e1b000

mmap(0x7f9205e29000, 10432, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7f9205e29000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libgcc\_s.so.1", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=125488, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 127720, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f9205f90000

mmap(0x7f9205f93000, 94208, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x3000) = 0x7f9205f93000

mmap(0x7f9205faa000, 16384, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1a000) = 0x7f9205faa000

mmap(0x7f9205fae000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1d000) = 0x7f9205fae000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libc.so.6", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0P\237\2\0\0\0\0\0"..., 832) = 832

pread64(3, "\6\0\0\0\4\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0"..., 784, 64) = 784

pread64(3, "\4\0\0\0 \0\0\0\5\0\0\0GNU\0\2\0\0\300\4\0\0\0\3\0\0\0\0\0\0\0"..., 48, 848) = 48

pread64(3, "\4\0\0\0\24\0\0\0\3\0\0\0GNU\0 =\340\2563\265?\356\25x\261\27\313A#\350"..., 68, 896) = 68

newfstatat(3, "", {st\_mode=S\_IFREG|0755, st\_size=2216304, ...}, AT\_EMPTY\_PATH) = 0

pread64(3, "\6\0\0\0\4\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0"..., 784, 64) = 784

mmap(NULL, 2260560, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f9205800000

mmap(0x7f9205828000, 1658880, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x28000) = 0x7f9205828000

mmap(0x7f92059bd000, 360448, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1bd000) = 0x7f92059bd000

mmap(0x7f9205a15000, 24576, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x214000) = 0x7f9205a15000

mmap(0x7f9205a1b000, 52816, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7f9205a1b000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libm.so.6", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=940560, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 942344, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f9205ea9000

mmap(0x7f9205eb7000, 507904, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xe000) = 0x7f9205eb7000

mmap(0x7f9205f33000, 372736, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x8a000) = 0x7f9205f33000

mmap(0x7f9205f8e000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xe4000) = 0x7f9205f8e000

close(3) = 0

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f9205ea7000

arch\_prctl(ARCH\_SET\_FS, 0x7f9205ea83c0) = 0

set\_tid\_address(0x7f9205ea8690) = 7640

set\_robust\_list(0x7f9205ea86a0, 24) = 0

rseq(0x7f9205ea8d60, 0x20, 0, 0x53053053) = 0

mprotect(0x7f9205a15000, 16384, PROT\_READ) = 0

mprotect(0x7f9205f8e000, 4096, PROT\_READ) = 0

mprotect(0x7f9205fae000, 4096, PROT\_READ) = 0

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f9205ea5000

mprotect(0x7f9205e1b000, 45056, PROT\_READ) = 0

mprotect(0x563480460000, 4096, PROT\_READ) = 0

mprotect(0x7f9205ffc000, 8192, PROT\_READ) = 0

prlimit64(0, RLIMIT\_STACK, NULL, {rlim\_cur=8192\*1024, rlim\_max=RLIM64\_INFINITY}) = 0

munmap(0x7f9205fb0000, 70735) = 0

getrandom("\xf7\x66\xeb\xd9\x3c\xbd\xff\x4b", 8, GRND\_NONBLOCK) = 8

brk(NULL) = 0x563480d6c000

brk(0x563480d8d000) = 0x563480d8d000

futex(0x7f9205e2977c, FUTEX\_WAKE\_PRIVATE, 2147483647) = 0

newfstatat(0, "", {st\_mode=S\_IFCHR|0620, st\_rdev=makedev(0x88, 0), ...}, AT\_EMPTY\_PATH) = 0

read(0, ejrfkebsl snrglksJKSN

"ejrfkebsl snrglksJKSN\n", 1024) = 23

openat(AT\_FDCWD, "./data.bin", O\_RDWR|O\_CREAT|O\_TRUNC, 0157307) = 3

ftruncate(3, 22) = 0

mmap(NULL, 23, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 3, 0) = 0x7f9205ffb000

msync(0x7f9205ffb000, 22, MS\_SYNC) = 0

clone(child\_stack=NULL, flags=CLONE\_CHILD\_CLEARTID|CLONE\_CHILD\_SETTID|SIGCHLD, child\_tidptr=0x7f9205ea8690) = 7642

clone(child\_stack=NULL, flags=CLONE\_CHILD\_CLEARTID|CLONE\_CHILD\_SETTID|SIGCHLD, child\_tidptr=0x7f9205ea8690) = 7643

wait4(-1, NULL, 0, NULL) = 7642

--- SIGCHLD {si\_signo=SIGCHLD, si\_code=CLD\_EXITED, si\_pid=7642, si\_uid=1000, si\_status=0, si\_utime=0, si\_stime=0} ---

write(1, "ejrfkebsl\_\_snrglksjksn", 22ejrfkebsl\_\_snrglksjksn) = 22

munmap(0x7f9205ffb000, 23) = 0

close(3) = 0

exit\_group(0) = ?

+++ exited with 0 +++

**LAB4**

write(1, "\320\222\320\262\320\265\320\264\320\270 0 \320\264\320\273\321\217 \321\201\320\274\320\265\320\275\321\213 \320"..., 199Введи 0 для смены библиотеки, 1 - для запуска первой функции, 2 - для запуска второй, -1 для завершения программы.

) = 199

newfstatat(0, "", {st\_mode=S\_IFCHR|0620, st\_rdev=makedev(0x88, 0), ...}, AT\_EMPTY\_PATH) = 0

read(0, 0x56194f5dac20, 1024) = ? ERESTARTSYS (To be restarted if SA\_RESTART is set)

--- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

read(0, 0x56194f5dac20, 1024) = ? ERESTARTSYS (To be restarted if SA\_RESTART is set)

--- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

read(0, 1

"1\n", 1024) = 2

write(1, "\320\222\320\262\320\265\320\264\320\270 \321\207\320\265\321\200\320\265\320\267 \320\277\321\200\320\276\320\261\320\265"..., 109Введи через пробел 2 числа, для которых ты хочешь найти НОД.

) = 109

read(0, 34

"34\n", 1024) = 3

read(0, 45

"45\n", 1024) = 3

write(1, "\320\235\320\236\320\224 = 1 \n", 12НОД = 1

) = 12

read(0, 4

"4\n", 1024) = 2

write(1, "\320\222\320\262\320\265\320\264\320\270 0 \320\264\320\273\321\217 \321\201\320\274\320\265\320\275\321\213 \320"..., 199Введи 0 для смены библиотеки, 1 - для запуска первой функции, 2 - для запуска второй, -1 для завершения программы.

) = 199

read(0, 2

"2\n", 1024) = 2

write(1, "\320\222\320\262\320\265\320\264\320\270 \321\206\320\265\320\273\320\276\320\265 \321\207\320\270\321\201\320\273\320\276"..., 148Введи целое число для вычисления числа 'e', чем больше число, тем больше точность.

) = 148

read(0, 234

"234\n", 1024) = 4

write(1, "\320\247\320\270\321\201\320\273\320\276 'e' = 2.712497 \n", 27Число 'e' = 2.712497

) = 27

read(0,

"\n", 1024) = 1

read(0, 3

"3\n", 1024) = 2

write(1, "\320\222\320\262\320\265\320\264\320\270 0 \320\264\320\273\321\217 \321\201\320\274\320\265\320\275\321\213 \320"..., 199Введи 0 для смены библиотеки, 1 - для запуска первой функции, 2 - для запуска второй, -1 для завершения программы.

) = 199

read(0, -1

"-1\n", 1024) = 3

write(1, "\320\237\321\200\320\276\320\263\321\200\320\260\320\274\320\274\320\260 \320\267\320\260\320\262\320\265\321\200\321\210\320"..., 40Программа завершена.

) = 40

**LAB567**

strace ./control 3

execve("./control", ["./control", "3"], 0x7ffc1749a378 /\* 45 vars \*/) = 0

brk(NULL) = 0x561137ebc000

arch\_prctl(0x3001 /\* ARCH\_??? \*/, 0x7fff31a736f0) = -1 EINVAL (Недопустимый аргумент)

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f4a2f24d000

access("/etc/ld.so.preload", R\_OK) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC) = 3

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=70735, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 70735, PROT\_READ, MAP\_PRIVATE, 3, 0) = 0x7f4a2f23b000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libzmq.so.5", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\240\233\1\0\0\0\0\0"..., 832) = 832

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=634936, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 636784, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f4a2f19f000

mmap(0x7f4a2f1b7000, 397312, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x18000) = 0x7f4a2f1b7000

mmap(0x7f4a2f218000, 106496, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x79000) = 0x7f4a2f218000

mmap(0x7f4a2f232000, 36864, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x92000) = 0x7f4a2f232000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libstdc++.so.6", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=2260296, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 2275520, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f4a2ee00000

mprotect(0x7f4a2ee9a000, 1576960, PROT\_NONE) = 0

mmap(0x7f4a2ee9a000, 1118208, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x9a000) = 0x7f4a2ee9a000

mmap(0x7f4a2efab000, 454656, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1ab000) = 0x7f4a2efab000

mmap(0x7f4a2f01b000, 57344, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x21a000) = 0x7f4a2f01b000

mmap(0x7f4a2f029000, 10432, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7f4a2f029000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libgcc\_s.so.1", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=125488, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 127720, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f4a2f17f000

mmap(0x7f4a2f182000, 94208, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x3000) = 0x7f4a2f182000

mmap(0x7f4a2f199000, 16384, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1a000) = 0x7f4a2f199000

mmap(0x7f4a2f19d000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1d000) = 0x7f4a2f19d000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libc.so.6", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0P\237\2\0\0\0\0\0"..., 832) = 832

pread64(3, "\6\0\0\0\4\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0"..., 784, 64) = 784

pread64(3, "\4\0\0\0 \0\0\0\5\0\0\0GNU\0\2\0\0\300\4\0\0\0\3\0\0\0\0\0\0\0"..., 48, 848) = 48

pread64(3, "\4\0\0\0\24\0\0\0\3\0\0\0GNU\0 =\340\2563\265?\356\25x\261\27\313A#\350"..., 68, 896) = 68

newfstatat(3, "", {st\_mode=S\_IFREG|0755, st\_size=2216304, ...}, AT\_EMPTY\_PATH) = 0

pread64(3, "\6\0\0\0\4\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0"..., 784, 64) = 784

mmap(NULL, 2260560, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f4a2ea00000

mmap(0x7f4a2ea28000, 1658880, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x28000) = 0x7f4a2ea28000

mmap(0x7f4a2ebbd000, 360448, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1bd000) = 0x7f4a2ebbd000

mmap(0x7f4a2ec15000, 24576, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x214000) = 0x7f4a2ec15000

mmap(0x7f4a2ec1b000, 52816, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7f4a2ec1b000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libbsd.so.0", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=89096, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 94432, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f4a2f167000

mprotect(0x7f4a2f16b000, 69632, PROT\_NONE) = 0

mmap(0x7f4a2f16b000, 53248, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000) = 0x7f4a2f16b000

mmap(0x7f4a2f178000, 12288, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x11000) = 0x7f4a2f178000

mmap(0x7f4a2f17c000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x14000) = 0x7f4a2f17c000

mmap(0x7f4a2f17e000, 224, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7f4a2f17e000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libsodium.so.23", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=355040, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 357440, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f4a2f10f000

mprotect(0x7f4a2f11b000, 303104, PROT\_NONE) = 0

mmap(0x7f4a2f11b000, 229376, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xc000) = 0x7f4a2f11b000

mmap(0x7f4a2f153000, 69632, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x44000) = 0x7f4a2f153000

mmap(0x7f4a2f165000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x55000) = 0x7f4a2f165000

close(3) = 0

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f4a2f10d000

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libpgm-5.3.so.0", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\340L\0\0\0\0\0\0"..., 832) = 832

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=310264, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 329808, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f4a2f0bc000

mmap(0x7f4a2f0c0000, 172032, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000) = 0x7f4a2f0c0000

mmap(0x7f4a2f0ea000, 118784, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2e000) = 0x7f4a2f0ea000

mmap(0x7f4a2f107000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4a000) = 0x7f4a2f107000

mmap(0x7f4a2f109000, 14416, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7f4a2f109000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libnorm.so.1", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0 \255\0\0\0\0\0\0"..., 832) = 832

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=497824, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 1223168, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f4a2ecd5000

mprotect(0x7f4a2ecdf000, 446464, PROT\_NONE) = 0

mmap(0x7f4a2ecdf000, 286720, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xa000) = 0x7f4a2ecdf000

mmap(0x7f4a2ed25000, 155648, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x50000) = 0x7f4a2ed25000

mmap(0x7f4a2ed4c000, 16384, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x76000) = 0x7f4a2ed4c000

mmap(0x7f4a2ed50000, 719360, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7f4a2ed50000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libgssapi\_krb5.so.2", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=338648, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 340960, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f4a2f068000

mprotect(0x7f4a2f073000, 282624, PROT\_NONE) = 0

mmap(0x7f4a2f073000, 229376, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xb000) = 0x7f4a2f073000

mmap(0x7f4a2f0ab000, 49152, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x43000) = 0x7f4a2f0ab000

mmap(0x7f4a2f0b8000, 16384, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4f000) = 0x7f4a2f0b8000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libm.so.6", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=940560, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 942344, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f4a2e919000

mmap(0x7f4a2e927000, 507904, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xe000) = 0x7f4a2e927000

mmap(0x7f4a2e9a3000, 372736, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x8a000) = 0x7f4a2e9a3000

mmap(0x7f4a2e9fe000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xe4000) = 0x7f4a2e9fe000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libmd.so.0", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=47472, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 49384, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f4a2f05b000

mmap(0x7f4a2f05d000, 28672, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000) = 0x7f4a2f05d000

mmap(0x7f4a2f064000, 8192, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x9000) = 0x7f4a2f064000

mmap(0x7f4a2f066000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xa000) = 0x7f4a2f066000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libpthread.so.0", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=21448, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f4a2f059000

mmap(NULL, 16424, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f4a2f054000

mmap(0x7f4a2f055000, 4096, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1000) = 0x7f4a2f055000

mmap(0x7f4a2f056000, 4096, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000) = 0x7f4a2f056000

mmap(0x7f4a2f057000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000) = 0x7f4a2f057000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libkrb5.so.3", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=827936, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 830576, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f4a2e84e000

mprotect(0x7f4a2e86f000, 634880, PROT\_NONE) = 0

mmap(0x7f4a2e86f000, 380928, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x21000) = 0x7f4a2e86f000

mmap(0x7f4a2e8cc000, 249856, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x7e000) = 0x7f4a2e8cc000

mmap(0x7f4a2e90a000, 61440, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xbb000) = 0x7f4a2e90a000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libk5crypto.so.3", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=182864, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 188472, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f4a2eca6000

mprotect(0x7f4a2ecaa000, 163840, PROT\_NONE) = 0

mmap(0x7f4a2ecaa000, 110592, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000) = 0x7f4a2ecaa000

mmap(0x7f4a2ecc5000, 49152, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1f000) = 0x7f4a2ecc5000

mmap(0x7f4a2ecd2000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2b000) = 0x7f4a2ecd2000

mmap(0x7f4a2ecd4000, 56, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7f4a2ecd4000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libcom\_err.so.2", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=18504, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 20552, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f4a2f04e000

mmap(0x7f4a2f050000, 4096, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000) = 0x7f4a2f050000

mmap(0x7f4a2f051000, 4096, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x3000) = 0x7f4a2f051000

mmap(0x7f4a2f052000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x3000) = 0x7f4a2f052000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libkrb5support.so.0", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=52016, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 54224, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f4a2f040000

mprotect(0x7f4a2f043000, 36864, PROT\_NONE) = 0

mmap(0x7f4a2f043000, 24576, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x3000) = 0x7f4a2f043000

mmap(0x7f4a2f049000, 8192, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x9000) = 0x7f4a2f049000

mmap(0x7f4a2f04c000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xb000) = 0x7f4a2f04c000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libkeyutils.so.1", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=22600, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f4a2f03e000

mmap(NULL, 24592, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f4a2f037000

mmap(0x7f4a2f039000, 8192, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000) = 0x7f4a2f039000

mmap(0x7f4a2f03b000, 4096, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000) = 0x7f4a2f03b000

mmap(0x7f4a2f03c000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000) = 0x7f4a2f03c000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libresolv.so.2", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=68552, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 80456, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f4a2ec92000

mmap(0x7f4a2ec95000, 40960, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x3000) = 0x7f4a2ec95000

mmap(0x7f4a2ec9f000, 12288, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xd000) = 0x7f4a2ec9f000

mmap(0x7f4a2eca2000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xf000) = 0x7f4a2eca2000

mmap(0x7f4a2eca4000, 6728, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7f4a2eca4000

close(3) = 0

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f4a2f035000

mmap(NULL, 12288, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f4a2f032000

arch\_prctl(ARCH\_SET\_FS, 0x7f4a2f0329c0) = 0

set\_tid\_address(0x7f4a2f032c90) = 6262

set\_robust\_list(0x7f4a2f032ca0, 24) = 0

rseq(0x7f4a2f033360, 0x20, 0, 0x53053053) = 0

mprotect(0x7f4a2ec15000, 16384, PROT\_READ) = 0

mprotect(0x7f4a2eca2000, 4096, PROT\_READ) = 0

mprotect(0x7f4a2f03c000, 4096, PROT\_READ) = 0

mprotect(0x7f4a2f04c000, 4096, PROT\_READ) = 0

mprotect(0x7f4a2f052000, 4096, PROT\_READ) = 0

mprotect(0x7f4a2ecd2000, 4096, PROT\_READ) = 0

mprotect(0x7f4a2e90a000, 53248, PROT\_READ) = 0

mprotect(0x7f4a2f057000, 4096, PROT\_READ) = 0

mprotect(0x7f4a2f066000, 4096, PROT\_READ) = 0

mprotect(0x7f4a2e9fe000, 4096, PROT\_READ) = 0

mprotect(0x7f4a2f0b8000, 8192, PROT\_READ) = 0

mprotect(0x7f4a2f19d000, 4096, PROT\_READ) = 0

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f4a2f030000

mprotect(0x7f4a2f01b000, 45056, PROT\_READ) = 0

mprotect(0x7f4a2ed4c000, 12288, PROT\_READ) = 0

mprotect(0x7f4a2f107000, 4096, PROT\_READ) = 0

mprotect(0x7f4a2f165000, 4096, PROT\_READ) = 0

mprotect(0x7f4a2f17c000, 4096, PROT\_READ) = 0

mprotect(0x7f4a2f232000, 32768, PROT\_READ) = 0

mprotect(0x561136520000, 4096, PROT\_READ) = 0

mprotect(0x7f4a2f287000, 8192, PROT\_READ) = 0

prlimit64(0, RLIMIT\_STACK, NULL, {rlim\_cur=8192\*1024, rlim\_max=RLIM64\_INFINITY}) = 0

munmap(0x7f4a2f23b000, 70735) = 0

getrandom("\xcc\x27\xa9\xb7\x3a\xf4\x2c\xb2", 8, GRND\_NONBLOCK) = 8

brk(NULL) = 0x561137ebc000

brk(0x561137edd000) = 0x561137edd000

gettimeofday({tv\_sec=1703532414, tv\_usec=823545}, {tz\_minuteswest=0, tz\_dsttime=0}) = 0

futex(0x7f4a2f02977c, FUTEX\_WAKE\_PRIVATE, 2147483647) = 0

newfstatat(0, "", {st\_mode=S\_IFCHR|0620, st\_rdev=makedev(0x88, 0), ...}, AT\_EMPTY\_PATH) = 0

read(0, create 1 -1

create 2 1

create 3 2

create 4 3

create 5 4

ping 1

ping 2

ping 3

ping 4

ping 5

remove 5

remove 4

remove 3

remove 2

remove 1

"create 1 -1\n", 1024) = 12

openat(AT\_FDCWD, "/sys/devices/system/cpu/online", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "0-11\n", 1024) = 5

close(3) = 0

openat(AT\_FDCWD, "/sys/devices/system/cpu", O\_RDONLY|O\_NONBLOCK|O\_CLOEXEC|O\_DIRECTORY) = 3

newfstatat(3, "", {st\_mode=S\_IFDIR|0755, st\_size=0, ...}, AT\_EMPTY\_PATH) = 0

getdents64(3, 0x561137ece2f0 /\* 29 entries \*/, 32768) = 832

getdents64(3, 0x561137ece2f0 /\* 0 entries \*/, 32768) = 0

close(3) = 0

getpid() = 6262

sched\_getaffinity(6262, 128, [0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11]) = 8

newfstatat(AT\_FDCWD, "/etc/nsswitch.conf", {st\_mode=S\_IFREG|0644, st\_size=542, ...}, 0) = 0

newfstatat(AT\_FDCWD, "/", {st\_mode=S\_IFDIR|0755, st\_size=4096, ...}, 0) = 0

openat(AT\_FDCWD, "/etc/nsswitch.conf", O\_RDONLY|O\_CLOEXEC) = 3

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=542, ...}, AT\_EMPTY\_PATH) = 0

read(3, "# /etc/nsswitch.conf\n#\n# Example"..., 4096) = 542

read(3, "", 4096) = 0

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=542, ...}, AT\_EMPTY\_PATH) = 0

close(3) = 0

openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC) = 3

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=70735, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 70735, PROT\_READ, MAP\_PRIVATE, 3, 0) = 0x7f4a2f23b000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/glibc-hwcaps/x86-64-v3/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/glibc-hwcaps/x86-64-v3", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/glibc-hwcaps/x86-64-v2/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/glibc-hwcaps/x86-64-v2", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/tls/x86\_64/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/tls/x86\_64/x86\_64", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/tls/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/tls/x86\_64", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/tls/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/tls/x86\_64", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/tls/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/tls", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/x86\_64/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/x86\_64/x86\_64", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/x86\_64", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/x86\_64", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/lib/x86\_64-linux-gnu", {st\_mode=S\_IFDIR|0755, st\_size=102400, ...}, 0) = 0

openat(AT\_FDCWD, "/usr/lib/x86\_64-linux-gnu/glibc-hwcaps/x86-64-v3/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/usr/lib/x86\_64-linux-gnu/glibc-hwcaps/x86-64-v3", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/usr/lib/x86\_64-linux-gnu/glibc-hwcaps/x86-64-v2/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/usr/lib/x86\_64-linux-gnu/glibc-hwcaps/x86-64-v2", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/usr/lib/x86\_64-linux-gnu/tls/x86\_64/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/usr/lib/x86\_64-linux-gnu/tls/x86\_64/x86\_64", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/usr/lib/x86\_64-linux-gnu/tls/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/usr/lib/x86\_64-linux-gnu/tls/x86\_64", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/usr/lib/x86\_64-linux-gnu/tls/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/usr/lib/x86\_64-linux-gnu/tls/x86\_64", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/usr/lib/x86\_64-linux-gnu/tls/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/usr/lib/x86\_64-linux-gnu/tls", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/usr/lib/x86\_64-linux-gnu/x86\_64/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/usr/lib/x86\_64-linux-gnu/x86\_64/x86\_64", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/usr/lib/x86\_64-linux-gnu/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/usr/lib/x86\_64-linux-gnu/x86\_64", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/usr/lib/x86\_64-linux-gnu/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/usr/lib/x86\_64-linux-gnu/x86\_64", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/usr/lib/x86\_64-linux-gnu/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/usr/lib/x86\_64-linux-gnu", {st\_mode=S\_IFDIR|0755, st\_size=102400, ...}, 0) = 0

openat(AT\_FDCWD, "/lib/glibc-hwcaps/x86-64-v3/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/lib/glibc-hwcaps/x86-64-v3", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/lib/glibc-hwcaps/x86-64-v2/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/lib/glibc-hwcaps/x86-64-v2", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/lib/tls/x86\_64/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/lib/tls/x86\_64/x86\_64", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/lib/tls/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/lib/tls/x86\_64", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/lib/tls/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/lib/tls/x86\_64", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/lib/tls/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/lib/tls", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/lib/x86\_64/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/lib/x86\_64/x86\_64", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/lib/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/lib/x86\_64", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/lib/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/lib/x86\_64", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/lib/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/lib", {st\_mode=S\_IFDIR|0755, st\_size=4096, ...}, 0) = 0

openat(AT\_FDCWD, "/usr/lib/glibc-hwcaps/x86-64-v3/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/usr/lib/glibc-hwcaps/x86-64-v3", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/usr/lib/glibc-hwcaps/x86-64-v2/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/usr/lib/glibc-hwcaps/x86-64-v2", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/usr/lib/tls/x86\_64/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/usr/lib/tls/x86\_64/x86\_64", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/usr/lib/tls/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/usr/lib/tls/x86\_64", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/usr/lib/tls/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/usr/lib/tls/x86\_64", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/usr/lib/tls/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/usr/lib/tls", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/usr/lib/x86\_64/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/usr/lib/x86\_64/x86\_64", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/usr/lib/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/usr/lib/x86\_64", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/usr/lib/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/usr/lib/x86\_64", 0x7fff31a70680, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/usr/lib/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT\_FDCWD, "/usr/lib", {st\_mode=S\_IFDIR|0755, st\_size=4096, ...}, 0) = 0

munmap(0x7f4a2f23b000, 70735) = 0

openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC) = 3

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=70735, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 70735, PROT\_READ, MAP\_PRIVATE, 3, 0) = 0x7f4a2f23b000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libnss\_db-2.35.so", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/usr/lib/x86\_64-linux-gnu/libnss\_db-2.35.so", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/lib/libnss\_db-2.35.so", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/usr/lib/libnss\_db-2.35.so", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

munmap(0x7f4a2f23b000, 70735) = 0

openat(AT\_FDCWD, "/etc/protocols", O\_RDONLY|O\_CLOEXEC) = 3

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=2932, ...}, AT\_EMPTY\_PATH) = 0

lseek(3, 0, SEEK\_SET) = 0

read(3, "# Internet (IP) protocols\n#\n# Up"..., 4096) = 2932

read(3, "", 4096) = 0

close(3) = 0

gettimeofday({tv\_sec=1703532416, tv\_usec=589599}, NULL) = 0

eventfd2(0, EFD\_CLOEXEC) = 3

fcntl(3, F\_GETFL) = 0x2 (flags O\_RDWR)

fcntl(3, F\_SETFL, O\_RDWR|O\_NONBLOCK) = 0

fcntl(3, F\_GETFL) = 0x802 (flags O\_RDWR|O\_NONBLOCK)

fcntl(3, F\_SETFL, O\_RDWR|O\_NONBLOCK) = 0

getpid() = 6262

getpid() = 6262

getrandom("\x5c\x11\x2a\x63\x6c\x6a\x27\xeb\xcc\x29\xad\x14\xfa\x12\x0a\xb4", 16, 0) = 16

getrandom("\xfb\x63\x09\x3d\x92\x61\x59\x07\x5b\x83\xcc\xdc\x2f\x80\x8c\xc0", 16, 0) = 16

eventfd2(0, EFD\_CLOEXEC) = 4

fcntl(4, F\_GETFL) = 0x2 (flags O\_RDWR)

fcntl(4, F\_SETFL, O\_RDWR|O\_NONBLOCK) = 0

fcntl(4, F\_GETFL) = 0x802 (flags O\_RDWR|O\_NONBLOCK)

fcntl(4, F\_SETFL, O\_RDWR|O\_NONBLOCK) = 0

getpid() = 6262

clock\_gettime(CLOCK\_MONOTONIC, {tv\_sec=2150, tv\_nsec=562575616}) = 0

epoll\_create1(EPOLL\_CLOEXEC) = 5

epoll\_ctl(5, EPOLL\_CTL\_ADD, 4, {events=0, data={u32=938274592, u64=94631952707360}}) = 0

epoll\_ctl(5, EPOLL\_CTL\_MOD, 4, {events=EPOLLIN, data={u32=938274592, u64=94631952707360}}) = 0

getpid() = 6262

rt\_sigaction(SIGRT\_1, {sa\_handler=0x7f4a2ea91870, sa\_mask=[], sa\_flags=SA\_RESTORER|SA\_ONSTACK|SA\_RESTART|SA\_SIGINFO, sa\_restorer=0x7f4a2ea42520}, NULL, 8) = 0

rt\_sigprocmask(SIG\_UNBLOCK, [RTMIN RT\_1], NULL, 8) = 0

mmap(NULL, 8392704, PROT\_NONE, MAP\_PRIVATE|MAP\_ANONYMOUS|MAP\_STACK, -1, 0) = 0x7f4a2e04d000

mprotect(0x7f4a2e04e000, 8388608, PROT\_READ|PROT\_WRITE) = 0

rt\_sigprocmask(SIG\_BLOCK, ~[], [], 8) = 0

clone3({flags=CLONE\_VM|CLONE\_FS|CLONE\_FILES|CLONE\_SIGHAND|CLONE\_THREAD|CLONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID|CLONE\_CHILD\_CLEARTID, child\_tid=0x7f4a2e84d910, parent\_tid=0x7f4a2e84d910, exit\_signal=0, stack=0x7f4a2e04d000, stack\_size=0x7ffc80, tls=0x7f4a2e84d640} => {parent\_tid=[6263]}, 88) = 6263

rt\_sigprocmask(SIG\_SETMASK, [], NULL, 8) = 0

eventfd2(0, EFD\_CLOEXEC) = 6

fcntl(6, F\_GETFL) = 0x2 (flags O\_RDWR)

fcntl(6, F\_SETFL, O\_RDWR|O\_NONBLOCK) = 0

fcntl(6, F\_GETFL) = 0x802 (flags O\_RDWR|O\_NONBLOCK)

fcntl(6, F\_SETFL, O\_RDWR|O\_NONBLOCK) = 0

getpid() = 6262

clock\_gettime(CLOCK\_MONOTONIC, {tv\_sec=2150, tv\_nsec=564621700}) = 0

epoll\_create1(EPOLL\_CLOEXEC) = 7

epoll\_ctl(7, EPOLL\_CTL\_ADD, 6, {events=0, data={u32=938273120, u64=94631952705888}}) = 0

epoll\_ctl(7, EPOLL\_CTL\_MOD, 6, {events=EPOLLIN, data={u32=938273120, u64=94631952705888}}) = 0

mmap(NULL, 8392704, PROT\_NONE, MAP\_PRIVATE|MAP\_ANONYMOUS|MAP\_STACK, -1, 0) = 0x7f4a2d84c000

mprotect(0x7f4a2d84d000, 8388608, PROT\_READ|PROT\_WRITE) = 0

rt\_sigprocmask(SIG\_BLOCK, ~[], [], 8) = 0

clone3({flags=CLONE\_VM|CLONE\_FS|CLONE\_FILES|CLONE\_SIGHAND|CLONE\_THREAD|CLONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID|CLONE\_CHILD\_CLEARTID, child\_tid=0x7f4a2e04c910, parent\_tid=0x7f4a2e04c910, exit\_signal=0, stack=0x7f4a2d84c000, stack\_size=0x7ffc80, tls=0x7f4a2e04c640} => {parent\_tid=[6264]}, 88) = 6264

rt\_sigprocmask(SIG\_SETMASK, [], NULL, 8) = 0

clock\_gettime(CLOCK\_MONOTONIC, {tv\_sec=2150, tv\_nsec=565475626}) = 0

eventfd2(0, EFD\_CLOEXEC) = 8

fcntl(8, F\_GETFL) = 0x2 (flags O\_RDWR)

fcntl(8, F\_SETFL, O\_RDWR|O\_NONBLOCK) = 0

fcntl(8, F\_GETFL) = 0x802 (flags O\_RDWR|O\_NONBLOCK)

fcntl(8, F\_SETFL, O\_RDWR|O\_NONBLOCK) = 0

getpid() = 6262

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

socket(AF\_INET, SOCK\_STREAM|SOCK\_CLOEXEC, IPPROTO\_TCP) = 9

setsockopt(9, SOL\_SOCKET, SO\_REUSEADDR, [1], 4) = 0

bind(9, {sa\_family=AF\_INET, sin\_port=htons(8001), sin\_addr=inet\_addr("0.0.0.0")}, 16) = 0

listen(9, 100) = 0

getsockname(9, {sa\_family=AF\_INET, sin\_port=htons(8001), sin\_addr=inet\_addr("0.0.0.0")}, [128 => 16]) = 0

getsockname(9, {sa\_family=AF\_INET, sin\_port=htons(8001), sin\_addr=inet\_addr("0.0.0.0")}, [128 => 16]) = 0

getpid() = 6262

write(6, "\1\0\0\0\0\0\0\0", 8) = 8

getpid() = 6262

write(8, "\1\0\0\0\0\0\0\0", 8) = 8

clone(child\_stack=NULL, flags=CLONE\_CHILD\_CLEARTID|CLONE\_CHILD\_SETTID|SIGCHLD, child\_tidptr=0x7f4a2f032c90) = 6265

clock\_gettime(CLOCK\_MONOTONIC, {tv\_sec=2150, tv\_nsec=568396378}) = 0

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 1000) = 1 ([{fd=8, revents=POLLIN}])

getpid() = 6262

read(8, "\1\0\0\0\0\0\0\0", 8) = 8

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

clock\_gettime(CLOCK\_MONOTONIC, {tv\_sec=2150, tv\_nsec=569046234}) = 0

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 999) = 1 ([{fd=8, revents=POLLIN}])

getpid() = 6262

read(8, "\1\0\0\0\0\0\0\0", 8) = 8

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

getpid() = 6262

write(6, "\1\0\0\0\0\0\0\0", 8) = 8

clock\_gettime(CLOCK\_MONOTONIC, {tv\_sec=2150, tv\_nsec=574926639}) = 0

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 1000) = 1 ([{fd=8, revents=POLLIN}])

getpid() = 6262

read(8, "\1\0\0\0\0\0\0\0", 8) = 8

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

newfstatat(1, "", {st\_mode=S\_IFCHR|0620, st\_rdev=makedev(0x88, 0), ...}, AT\_EMPTY\_PATH) = 0

write(1, "OK: 6265\n", 9OK: 6265

) = 9

read(0, "create 2 1\n", 1024) = 11

getpid() = 6262

write(6, "\1\0\0\0\0\0\0\0", 8) = 8

clock\_gettime(CLOCK\_MONOTONIC, {tv\_sec=2150, tv\_nsec=575655273}) = 0

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 1000) = 1 ([{fd=8, revents=POLLIN}])

getpid() = 6262

read(8, "\1\0\0\0\0\0\0\0", 8) = 8

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

write(1, "OK: 6271\n", 9OK: 6271

) = 9

read(0, "create 3 2\n", 1024) = 11

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

getpid() = 6262

write(6, "\1\0\0\0\0\0\0\0", 8) = 8

clock\_gettime(CLOCK\_MONOTONIC, {tv\_sec=2150, tv\_nsec=582926739}) = 0

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 1000) = 1 ([{fd=8, revents=POLLIN}])

getpid() = 6262

read(8, "\1\0\0\0\0\0\0\0", 8) = 8

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

write(1, "OK: 6277\n", 9OK: 6277

) = 9

read(0, "create 4 3\n", 1024) = 11

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

getpid() = 6262

write(6, "\1\0\0\0\0\0\0\0", 8) = 8

clock\_gettime(CLOCK\_MONOTONIC, {tv\_sec=2150, tv\_nsec=589382900}) = 0

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 1000) = 1 ([{fd=8, revents=POLLIN}])

getpid() = 6262

read(8, "\1\0\0\0\0\0\0\0", 8) = 8

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

write(1, "OK: 6283\n", 9OK: 6283

) = 9

read(0, "create 5 4\n", 1024) = 11

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

getpid() = 6262

write(6, "\1\0\0\0\0\0\0\0", 8) = 8

clock\_gettime(CLOCK\_MONOTONIC, {tv\_sec=2150, tv\_nsec=595680176}) = 0

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 1000) = 1 ([{fd=8, revents=POLLIN}])

getpid() = 6262

read(8, "\1\0\0\0\0\0\0\0", 8) = 8

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

write(1, "OK: 6289\n", 9OK: 6289

) = 9

read(0, "ping 1\n", 1024) = 7

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

getpid() = 6262

write(6, "\1\0\0\0\0\0\0\0", 8) = 8

clock\_gettime(CLOCK\_MONOTONIC, {tv\_sec=2150, tv\_nsec=603361041}) = 0

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 1000) = 1 ([{fd=8, revents=POLLIN}])

getpid() = 6262

read(8, "\1\0\0\0\0\0\0\0", 8) = 8

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

write(1, "OK: 1\n", 6OK: 1

) = 6

read(0, "ping 2\n", 1024) = 7

getpid() = 6262

write(6, "\1\0\0\0\0\0\0\0", 8) = 8

clock\_gettime(CLOCK\_MONOTONIC, {tv\_sec=2150, tv\_nsec=603878830}) = 0

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 1000) = 1 ([{fd=8, revents=POLLIN}])

getpid() = 6262

read(8, "\1\0\0\0\0\0\0\0", 8) = 8

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

write(1, "OK: 1\n", 6OK: 1

) = 6

read(0, "ping 3\n", 1024) = 7

getpid() = 6262

write(6, "\1\0\0\0\0\0\0\0", 8) = 8

clock\_gettime(CLOCK\_MONOTONIC, {tv\_sec=2150, tv\_nsec=604621222}) = 0

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 1000) = 1 ([{fd=8, revents=POLLIN}])

getpid() = 6262

read(8, "\1\0\0\0\0\0\0\0", 8) = 8

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

write(1, "OK: 1\n", 6OK: 1

) = 6

read(0, "ping 4\n", 1024) = 7

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

getpid() = 6262

write(6, "\1\0\0\0\0\0\0\0", 8) = 8

clock\_gettime(CLOCK\_MONOTONIC, {tv\_sec=2150, tv\_nsec=605492119}) = 0

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 1000) = 1 ([{fd=8, revents=POLLIN}])

getpid() = 6262

read(8, "\1\0\0\0\0\0\0\0", 8) = 8

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

write(1, "OK: 1\n", 6OK: 1

) = 6

read(0, "ping 5\n", 1024) = 7

getpid() = 6262

write(6, "\1\0\0\0\0\0\0\0", 8) = 8

clock\_gettime(CLOCK\_MONOTONIC, {tv\_sec=2150, tv\_nsec=606360572}) = 0

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 1000) = 1 ([{fd=8, revents=POLLIN}])

getpid() = 6262

read(8, "\1\0\0\0\0\0\0\0", 8) = 8

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

write(1, "OK: 1\n", 6OK: 1

) = 6

read(0, "remove 5\n", 1024) = 9

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

getpid() = 6262

write(6, "\1\0\0\0\0\0\0\0", 8) = 8

clock\_gettime(CLOCK\_MONOTONIC, {tv\_sec=2150, tv\_nsec=607443292}) = 0

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 1000) = 1 ([{fd=8, revents=POLLIN}])

getpid() = 6262

read(8, "\1\0\0\0\0\0\0\0", 8) = 8

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

write(1, "OK\n", 3OK

) = 3

read(0, "remove 4\n", 1024) = 9

getpid() = 6262

write(6, "\1\0\0\0\0\0\0\0", 8) = 8

clock\_gettime(CLOCK\_MONOTONIC, {tv\_sec=2150, tv\_nsec=608655773}) = 0

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 1000) = 1 ([{fd=8, revents=POLLIN}])

getpid() = 6262

read(8, "\1\0\0\0\0\0\0\0", 8) = 8

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

write(1, "OK\n", 3OK

) = 3

read(0, "remove 3\n", 1024) = 9

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

getpid() = 6262

write(6, "\1\0\0\0\0\0\0\0", 8) = 8

clock\_gettime(CLOCK\_MONOTONIC, {tv\_sec=2150, tv\_nsec=609614877}) = 0

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 1000) = 1 ([{fd=8, revents=POLLIN}])

getpid() = 6262

read(8, "\1\0\0\0\0\0\0\0", 8) = 8

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

write(1, "OK\n", 3OK

) = 3

read(0, "remove 2\n", 1024) = 9

getpid() = 6262

write(6, "\1\0\0\0\0\0\0\0", 8) = 8

clock\_gettime(CLOCK\_MONOTONIC, {tv\_sec=2150, tv\_nsec=610429484}) = 0

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 1000) = 1 ([{fd=8, revents=POLLIN}])

getpid() = 6262

read(8, "\1\0\0\0\0\0\0\0", 8) = 8

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

write(1, "OK\n", 3OK

) = 3

read(0, "remove 1\n", 1024) = 9

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

getpid() = 6262

write(6, "\1\0\0\0\0\0\0\0", 8) = 8

clock\_gettime(CLOCK\_MONOTONIC, {tv\_sec=2150, tv\_nsec=611286482}) = 0

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 1000) = 1 ([{fd=8, revents=POLLIN}])

getpid() = 6262

read(8, "\1\0\0\0\0\0\0\0", 8) = 8

getpid() = 6262

poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

getpid() = 6262

write(4, "\1\0\0\0\0\0\0\0", 8) = 8

getpid() = 6262

getpid() = 6262

write(8, "\1\0\0\0\0\0\0\0", 8) = 8

futex(0x561137ece798, FUTEX\_WAKE\_PRIVATE, 1) = 1

getpid() = 6262

poll([{fd=3, events=POLLIN}], 1, -1) = 1 ([{fd=3, revents=POLLIN}])

getpid() = 6262

read(3, "\1\0\0\0\0\0\0\0", 8) = 8

getpid() = 6262

write(6, "\1\0\0\0\0\0\0\0", 8) = 8

close(7) = 0

close(6) = 0

close(5) = 0

--- SIGCHLD {si\_signo=SIGCHLD, si\_code=CLD\_EXITED, si\_pid=6265, si\_uid=1000, si\_status=0, si\_utime=0, si\_stime=1} ---

close(4) = 0

close(3) = 0

write(1, "OK\n", 3OK

) = 3

read(0, "\n", 1024) = 1

**CP**

strace ./a.out

execve("./a.out", ["./a.out"], 0x7ffce2ea1780 /\* 45 vars \*/) = 0

brk(NULL) = 0x55b8aad88000

arch\_prctl(0x3001 /\* ARCH\_??? \*/, 0x7fff6bca9b70) = -1 EINVAL (Недопустимый аргумент)

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f3554b4d000

access("/etc/ld.so.preload", R\_OK) = -1 ENOENT (Нет такого файла или каталога)

openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC) = 3

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=70735, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 70735, PROT\_READ, MAP\_PRIVATE, 3, 0) = 0x7f3554b3b000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libstdc++.so.6", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=2260296, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 2275520, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f3554800000

mprotect(0x7f355489a000, 1576960, PROT\_NONE) = 0

mmap(0x7f355489a000, 1118208, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x9a000) = 0x7f355489a000

mmap(0x7f35549ab000, 454656, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1ab000) = 0x7f35549ab000

mmap(0x7f3554a1b000, 57344, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x21a000) = 0x7f3554a1b000

mmap(0x7f3554a29000, 10432, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7f3554a29000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libgcc\_s.so.1", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=125488, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 127720, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f3554b1b000

mmap(0x7f3554b1e000, 94208, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x3000) = 0x7f3554b1e000

mmap(0x7f3554b35000, 16384, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1a000) = 0x7f3554b35000

mmap(0x7f3554b39000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1d000) = 0x7f3554b39000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libc.so.6", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0P\237\2\0\0\0\0\0"..., 832) = 832

pread64(3, "\6\0\0\0\4\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0"..., 784, 64) = 784

pread64(3, "\4\0\0\0 \0\0\0\5\0\0\0GNU\0\2\0\0\300\4\0\0\0\3\0\0\0\0\0\0\0"..., 48, 848) = 48

pread64(3, "\4\0\0\0\24\0\0\0\3\0\0\0GNU\0 =\340\2563\265?\356\25x\261\27\313A#\350"..., 68, 896) = 68

newfstatat(3, "", {st\_mode=S\_IFREG|0755, st\_size=2216304, ...}, AT\_EMPTY\_PATH) = 0

pread64(3, "\6\0\0\0\4\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0"..., 784, 64) = 784

mmap(NULL, 2260560, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f3554400000

mmap(0x7f3554428000, 1658880, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x28000) = 0x7f3554428000

mmap(0x7f35545bd000, 360448, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1bd000) = 0x7f35545bd000

mmap(0x7f3554615000, 24576, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x214000) = 0x7f3554615000

mmap(0x7f355461b000, 52816, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7f355461b000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libm.so.6", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=940560, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 942344, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f3554a34000

mmap(0x7f3554a42000, 507904, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xe000) = 0x7f3554a42000

mmap(0x7f3554abe000, 372736, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x8a000) = 0x7f3554abe000

mmap(0x7f3554b19000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xe4000) = 0x7f3554b19000

close(3) = 0

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f3554a32000

arch\_prctl(ARCH\_SET\_FS, 0x7f3554a333c0) = 0

set\_tid\_address(0x7f3554a33690) = 6425

set\_robust\_list(0x7f3554a336a0, 24) = 0

rseq(0x7f3554a33d60, 0x20, 0, 0x53053053) = 0

mprotect(0x7f3554615000, 16384, PROT\_READ) = 0

mprotect(0x7f3554b19000, 4096, PROT\_READ) = 0

mprotect(0x7f3554b39000, 4096, PROT\_READ) = 0

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f3554a30000

mprotect(0x7f3554a1b000, 45056, PROT\_READ) = 0

mprotect(0x55b8aad39000, 4096, PROT\_READ) = 0

mprotect(0x7f3554b87000, 8192, PROT\_READ) = 0

prlimit64(0, RLIMIT\_STACK, NULL, {rlim\_cur=8192\*1024, rlim\_max=RLIM64\_INFINITY}) = 0

munmap(0x7f3554b3b000, 70735) = 0

getrandom("\x9e\x7c\x3e\x17\x42\xa1\xa1\x55", 8, GRND\_NONBLOCK) = 8

brk(NULL) = 0x55b8aad88000

brk(0x55b8aada9000) = 0x55b8aada9000

futex(0x7f3554a2977c, FUTEX\_WAKE\_PRIVATE, 2147483647) = 0

openat(AT\_FDCWD, "Make.ini", O\_RDONLY) = 3

read(3, "[b.o]\nCommand = \"g++ -c ./test/b"..., 8191) = 204

read(3, "", 8191) = 0

newfstatat(1, "", {st\_mode=S\_IFCHR|0620, st\_rdev=makedev(0x88, 0), ...}, AT\_EMPTY\_PATH) = 0

write(1, "b.o\tg++ -c ./test/b.cpp\n", 24b.o g++ -c ./test/b.cpp

) = 24

write(1, "c.o\tg++ -c ./test/c.cpp\n", 24c.o g++ -c ./test/c.cpp

) = 24

write(1, "d.o\tg++ -c ./test/d.cpp\n", 24d.o g++ -c ./test/d.cpp

) = 24

write(1, "a.out\tg++ -o a.out b.o c.o d.o\n", 31a.out g++ -o a.out b.o c.o d.o

) = 31

write(1, "b.o\n", 4b.o

) = 4

write(1, "c.o\n", 4c.o

) = 4

write(1, "d.o\n", 4d.o

) = 4

close(3) = 0

write(1, "b.o \tc.o \td.o \ta.out : 0 1 2 ;\t", 32b.o c.o d.o a.out : 0 1 2 ; ) = 32

exit\_group(0) = ?

+++ exited with 0 +++

# Вывод

Изучив принцип работы с утилитой strace я понял, как просто отслеживать

«общение» между процессами и ядром. Вывод на экран strace очень прост и понятен, выучив и поняв некоторую часть системных вызовов, можно с легкостью читать и понимать ход работы программы. Работа с strace поможет программисту упростить отслеживание зависаний, ошибок и „deadlock’ов“ в программе, из чего следует быстрота и работоспособность программы.