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Институт №8 “Компьютерные науки и прикладная математика”
Кафедра №806 “Вычислительная математика и программирование”

Лабораторная работа №8 по курсу
«Операционные системы»

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Оценка: _____

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Постановка задачи

Цель работы

Приобретение практических навыков диагностики работы программного обеспечения.

Задание

При выполнении лабораторных работ по курсу ОС необходимо продемонстрировать ключевые системные вызовы, которые в них используются и то, что их использование соответствует варианту ЛР.

По итогам выполнения всех лабораторных работ отчет по данной ЛР должен содержать краткую сводку по исследованию написанных программ.

Общий метод и алгоритм решения

Утилита `strace` отслеживает системные вызовы и сигналы.

`strace` – инструмент диагностики, обучения и отладки. Он очень полезен для решения проблем с программами, для которых источник недоступен, поскольку их не нужно перекомпилировать для отслеживания.

Поскольку системные вызовы и сигналы являются событиями, которые происходят в интерфейсе пользователя/ядра, тщательное изучение этой границы очень полезно для изоляции ошибок, проверки работоспособности и попыток получения условий гонки. Формат каждого вывода сообщения трассировки:

`<seq> <time> <ticks> <level> <flags> <mid> <sid> <text>`

- `<seq>` – порядковый номер трассировки;
- `<time>` – время сообщения в hh:mm:ss;
- `<ticks>` – время сообщения в машинных тиках с момента загрузки;
- `<level>` – уровень приоритета трассировки;
- `<flags>` – E: сообщение также находится в журнале ошибок, F: указывает на фатальную ошибку, N: письмо было отправлено системному администратору (жестко закодировано как root);
- `<mid>` – идентификационный номер модуля источника;
- `<sid>` – субидентификационный номер источника sub-ID;
- `<text>` – форматированный текст сообщения трассировки.

После запуска `strace` продолжит выполнение до тех пор, пока пользователь не прекратит работу.

Основные опции

- `-D` – запускать процесс трассировки как отдельный "внук", а не как родитель трассировки. Это уменьшает видимый эффект `strace`, сохраняя трассировку прямым потомком вызывающего процесса.
- `-d` – показать некоторые отладочные данные самого `strace` для стандартной ошибки.
- `-f` – отследить дочерние процессы по мере того, как они создаются отслеживаемыми в настоящее время процессами в результате системного вызова `fork(2)`.

- -q – подавлять сообщения о присоединении, отсоединении и т. д. Это происходит автоматически, когда вывод перенаправляется в файл и команда запускается непосредственно вместо присоединения.
- -u username – запустить команду с идентификатором пользователя, идентификатором группы и дополнительными группами имени пользователя. Эта опция полезна только при запуске от имени пользователя root и позволяет правильно выполнять двоичные файлы setuid и setgid. Если не используется эта опция, программы setuid и setgid выполняются без действующих привилегий.

Опции выходного формата

- -a column – выравнивать возвращаемые значения в определённом столбце (по умолчанию 40);
- -i – распечатать указатель на инструкции во время системного вызова;
- -k – вывести трассировку стека выполнения отслеживаемых процессов после каждого системного вызова;
- -o имя_файла – записать вывод трассировки в файл, а не в stderr. Форма filename.pid используется, если указана опция -ff. Если аргумент начинается с '|' или '!', остальная часть аргумента обрабатывается как команда, и весь вывод передается по ней. Это удобно для передачи результатов отладки в программу без влияния на перенаправление исполняемых программ. Последнее не совместимо с опцией -ff в настоящее время.
- -A – открыть файл, указанный в опции -o, в режиме добавления;
- -q – подавлять сообщения о присоединении, отсоединении и т. д. Это происходит автоматически, когда вывод перенаправляется в файл и команда запускается непосредственно вместо присоединения.
- -qq – подавить сообщения о состоянии завершения процесса;
- -s strsize – указать максимальный размер строки для печати (по умолчанию 32). Следует обратить внимание, что имена файлов не считаются строками и всегда печатаются полностью;
- -t – префикс каждой строки трассировки со временем настенных часов.

Опции статистики

- -c – подсчитывать время, вызовы и ошибки для каждого системного вызова и сообщать сводные данные о выходе из программы, подавляя обычный вывод. Команда пытается показать системное время (процессорное время, потраченное на работу в ядре) независимо от времени настенных часов. Если -c используется с -f, сохраняются только совокупные итоги для всех отслеживаемых процессов.
- -S sortby – сортировать выходные данные гистограммы, напечатанной параметром -c, по указанному критерию. Допустимые значения: time, calls, name и nothing (по умолчанию time).
- -w – суммировать разницу во времени между началом и концом каждого системного вызова. По умолчанию суммируется системное время.

Опция фильтрации

- -e expr – уточняющее выражение, которое изменяет, какие события отслеживать или как их отслеживать.

Strace:

JIP №1

```
$ strace -f ./main
```

```
execve("./main", [ "./main" ], 0x7ffce4389438 /* 35 vars */) = 0
brk(NULL)                               = 0x560696bb9000
arch_prctl(0x3001 /* ARCH_??? */, 0x7ffc6ce60700) = -1 EINVAL (Invalid argument)
mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0x7f1f851d7000
access("/etc/ld.so.preload", R_OK)      = -1 ENOENT (No such file or directory)
openat(AT_FDCWD, "/etc/ld.so.cache", O_RDONLY|O_CLOEXEC) = 3
newfstatat(3, "", {st_mode=S_IFREG|0644, st_size=26299, ...}, AT_EMPTY_PATH) = 0
mmap(NULL, 26299, PROT_READ, MAP_PRIVATE, 3, 0) = 0x7f1f851d0000
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\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=2252096, ...}, AT_EMPTY_PATH) = 0
mmap(NULL, 2267328, PROT_READ, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) = 0x7f1f84fa6000
mmap(0x7f1f85040000, 1114112, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x9a000) = 0x7f1f85040000
mmap(0x7f1f85150000, 454656, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3,
0x1aa000) = 0x7f1f85150000
mmap(0x7f1f851bf000, 57344, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x218000) = 0x7f1f851bf000
mmap(0x7f1f851cd000, 10432, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS,
-1, 0) = 0x7f1f851cd000
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\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) = 0x7f1f84f86000
mmap(0x7f1f84f89000, 94208, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x3000) = 0x7f1f84f89000
mmap(0x7f1f84fa0000, 16384, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x1a000)
= 0x7f1f84fa0000
mmap(0x7f1f84fa4000, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x1d000) = 0x7f1f84fa4000
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\3\0>\0\1\0\0\0P\237\2\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"... , 48,
848) = 48
pread64(3,
"\4\0\0\0\24\0\0\0\3\0\0\0GNU\0i8\235HZ\227\223\333\350s\360\352,\223\340."..., 68, 896) =
68
newfstatat(3, "", {st_mode=S_IFREG|0644, 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) = 0x7f1f84d5e000
mmap(0x7f1f84d86000, 1658880, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x28000) = 0x7f1f84d86000
mmap(0x7f1f84f1b000, 360448, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3,
0x1bd000) = 0x7f1f84f1b000
mmap(0x7f1f84f73000, 24576, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x214000) = 0x7f1f84f73000
mmap(0x7f1f84f79000, 52816, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS,
-1, 0) = 0x7f1f84f79000
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\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) = 0x7f1f84c77000
mmap(0x7f1f84c85000, 507904, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0xe000) = 0x7f1f84c85000
mmap(0x7f1f84d01000, 372736, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3,
0x8a000) = 0x7f1f84d01000
mmap(0x7f1f84d5c000, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0xe4000) = 0x7f1f84d5c000
close(3) = 0
mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0x7f1f84c75000
arch_prctl(ARCH_SET_FS, 0x7f1f84c763c0) = 0
set_tid_address(0x7f1f84c76690) = 2456
set_robust_list(0x7f1f84c766a0, 24) = 0

```

```

rseq(0x7f1f84c76d60, 0x20, 0, 0x53053053) = 0

mprotect(0x7f1f84f73000, 16384, PROT_READ) = 0

mprotect(0x7f1f84d5c000, 4096, PROT_READ) = 0

mprotect(0x7f1f84fa4000, 4096, PROT_READ) = 0

mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0x7f1f84c73000

mprotect(0x7f1f851bf000, 45056, PROT_READ) = 0

mprotect(0x560694e74000, 4096, PROT_READ) = 0

mprotect(0x7f1f85211000, 8192, PROT_READ) = 0

prlimit64(0, RLIMIT_STACK, NULL, {rlim_cur=8192*1024, rlim_max=RLIM64_INFINITY}) = 0

munmap(0x7f1f851d0000, 26299) = 0

getrandom("\x63\x38\xee\x06\xa4\x0c\xf5\x05", 8, GRND_NONBLOCK) = 8

brk(NULL) = 0x560696bb9000

brk(0x560696bda000) = 0x560696bda000

futex(0x7f1f851cd77c, FUTEX_WAKE_PRIVATE, 2147483647) = 0

newfstatat(1, "", {st_mode=S_IFCHR|0620, st_rdev=makedev(0x88, 0x3), ...},
AT_EMPTY_PATH) = 0

write(1, "\320\222\320\262\320\265\320\264\320\270\321\202\320\265
\320\270\320\274\321\217 \321\204\320\260\320\271\320\273\320\260"... , 35Введите имя файла:

) = 35

newfstatat(0, "", {st_mode=S_IFCHR|0620, st_rdev=makedev(0x88, 0x3), ...},
AT_EMPTY_PATH) = 0

read(0, 0x560696bcb2c0, 1024) = ? ERESTARTSYS (To be restarted if SA_RESTART
is set)

--- SIGWINCH {si_signo=SIGWINCH, si_code=SI_KERNEL} ---

read(0, 0x560696bcb2c0, 1024) = ? ERESTARTSYS (To be restarted if SA_RESTART
is set)

--- SIGWINCH {si_signo=SIGWINCH, si_code=SI_KERNEL} ---

read(0, foutput.txt

"foutput.txt\n", 1024) = 12

openat(AT_FDCWD, "foutput.txt", O_WRONLY|O_CREAT, 0777) = 3

pipe2([4, 5], 0) = 0

pipe2([6, 7], 0) = 0

clone(child_stack=NULL, flags=CLONE_CHILD_CLEARTID|CLONE_CHILD_SETTID|SIGCHLDstrace:
Process 2624 attached

, child_tidptr=0x7f1f84c76690) = 2624

```

```

[pid 2624] set_robust_list(0x7f1f84c766a0, 24 <unfinished ...>

[pid 2456] close(4 <unfinished ...>

[pid 2624] <... set_robust_list resumed>) = 0

[pid 2456] <... close resumed>          = 0

[pid 2624] close(5 <unfinished ...>

[pid 2456] close(7 <unfinished ...>

[pid 2624] <... close resumed>          = 0

[pid 2456] <... close resumed>          = 0

[pid 2624] close(6 <unfinished ...>

[pid 2456] read(0, <unfinished ...>

[pid 2624] <... close resumed>          = 0

[pid 2624] dup2(4, 0)                    = 0

[pid 2624] dup2(7, 2)                    = 2

[pid 2624] dup2(3, 1)                    = 1

[pid 2624] execve("./child", ["./child"], 0x7ffc6ce608d8 /* 35 vars */) = 0

[pid 2624] brk(NULL)                     = 0x55b2ccdbb000

[pid 2624] arch_prctl(0x3001 /* ARCH_??? */, 0x7ffcdee8ea50) = -1 EINVAL (Invalid
argument)

[pid 2624] mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0x7f44a3e1a000

[pid 2624] access("/etc/ld.so.preload", R_OK) = -1 ENOENT (No such file or directory)

[pid 2624] openat(AT_FDCWD, "/etc/ld.so.cache", O_RDONLY|O_CLOEXEC) = 5

[pid 2624] newfstatat(5, "", {st_mode=S_IFREG|0644, st_size=26299, ...},
AT_EMPTY_PATH) = 0

[pid 2624] mmap(NULL, 26299, PROT_READ, MAP_PRIVATE, 5, 0) = 0x7f44a3e13000

[pid 2624] close(5)                      = 0

[pid 2624] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libstdc++.so.6",
O_RDONLY|O_CLOEXEC) = 5

[pid 2624] read(5,
"\177ELF\2\1\1\3\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0"... , 832) = 832

[pid 2624] newfstatat(5, "", {st_mode=S_IFREG|0644, st_size=2252096, ...},
AT_EMPTY_PATH) = 0

[pid 2624] mmap(NULL, 2267328, PROT_READ, MAP_PRIVATE|MAP_DENYWRITE, 5, 0) =
0x7f44a3be9000

[pid 2624] mmap(0x7f44a3c83000, 1114112, PROT_READ|PROT_EXEC,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 5, 0x9a000) = 0x7f44a3c83000

```

```

[pid 2624] mmap(0x7f44a3d93000, 454656, PROT_READ,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 5, 0x1aa000) = 0x7f44a3d93000

[pid 2624] mmap(0x7f44a3e02000, 57344, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 5, 0x218000) = 0x7f44a3e02000

[pid 2624] mmap(0x7f44a3e10000, 10432, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) = 0x7f44a3e10000

[pid 2624] close(5) = 0

[pid 2624] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libgcc_s.so.1", O_RDONLY|O_CLOEXEC)
= 5

[pid 2624] read(5,
"\177ELF\2\1\1\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0"... , 832) = 832

[pid 2624] newfstatat(5, "", {st_mode=S_IFREG|0644, st_size=125488, ...},
AT_EMPTY_PATH) = 0

[pid 2624] mmap(NULL, 127720, PROT_READ, MAP_PRIVATE|MAP_DENYWRITE, 5, 0) =
0x7f44a3bc9000

[pid 2624] mmap(0x7f44a3bcc000, 94208, PROT_READ|PROT_EXEC,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 5, 0x3000) = 0x7f44a3bcc000

[pid 2624] mmap(0x7f44a3be3000, 16384, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
5, 0x1a000) = 0x7f44a3be3000

[pid 2624] mmap(0x7f44a3be7000, 8192, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 5, 0x1d000) = 0x7f44a3be7000

[pid 2624] close(5) = 0

[pid 2624] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libc.so.6", O_RDONLY|O_CLOEXEC) = 5

[pid 2624] read(5,
"\177ELF\2\1\1\3\0\0\0\0\0\0\0\3\0>\0\1\0\0\0P\237\2\0\0\0\0\0"... , 832) = 832

[pid 2624] pread64(5,
"\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

[pid 2624] pread64(5, "\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"... , 48, 848) = 48

[pid 2624] pread64(5,
"\4\0\0\0\24\0\0\0\3\0\0\0GNU\0i8\235HZ\227\223\333\350s\360\352,\223\340."... , 68, 896) =
68

[pid 2624] newfstatat(5, "", {st_mode=S_IFREG|0644, st_size=2216304, ...},
AT_EMPTY_PATH) = 0

[pid 2624] pread64(5,
"\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

[pid 2624] mmap(NULL, 2260560, PROT_READ, MAP_PRIVATE|MAP_DENYWRITE, 5, 0) =
0x7f44a39a1000

[pid 2624] mmap(0x7f44a39c9000, 1658880, PROT_READ|PROT_EXEC,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 5, 0x28000) = 0x7f44a39c9000

```



```

[pid 2624] mmap(0x7f44a3b5e000, 360448, PROT_READ,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 5, 0x1bd000) = 0x7f44a3b5e000

[pid 2624] mmap(0x7f44a3bb6000, 24576, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 5, 0x214000) = 0x7f44a3bb6000

[pid 2624] mmap(0x7f44a3bbc000, 52816, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) = 0x7f44a3bbc000

[pid 2624] close(5) = 0

[pid 2624] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libm.so.6", O_RDONLY|O_CLOEXEC) = 5

[pid 2624] read(5,
"\177ELF\2\1\1\3\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0"... , 832) = 832

[pid 2624] newfstatat(5, "", {st_mode=S_IFREG|0644, st_size=940560, ...},
AT_EMPTY_PATH) = 0

[pid 2624] mmap(NULL, 942344, PROT_READ, MAP_PRIVATE|MAP_DENYWRITE, 5, 0) =
0x7f44a38ba000

[pid 2624] mmap(0x7f44a38c8000, 507904, PROT_READ|PROT_EXEC,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 5, 0xe000) = 0x7f44a38c8000

[pid 2624] mmap(0x7f44a3944000, 372736, PROT_READ,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 5, 0x8a000) = 0x7f44a3944000

[pid 2624] mmap(0x7f44a399f000, 8192, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 5, 0xe4000) = 0x7f44a399f000

[pid 2624] close(5) = 0

[pid 2624] mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0x7f44a38b8000

[pid 2624] arch_prctl(ARCH_SET_FS, 0x7f44a38b93c0) = 0

[pid 2624] set_tid_address(0x7f44a38b9690) = 2624

[pid 2624] set_robust_list(0x7f44a38b96a0, 24) = 0

[pid 2624] rseq(0x7f44a38b9d60, 0x20, 0, 0x53053053) = 0

[pid 2624] mprotect(0x7f44a3bb6000, 16384, PROT_READ) = 0

[pid 2624] mprotect(0x7f44a399f000, 4096, PROT_READ) = 0

[pid 2624] mprotect(0x7f44a3be7000, 4096, PROT_READ) = 0

[pid 2624] mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0x7f44a38b6000

[pid 2624] mprotect(0x7f44a3e02000, 45056, PROT_READ) = 0

[pid 2624] mprotect(0x55b2cb736000, 4096, PROT_READ) = 0

[pid 2624] mprotect(0x7f44a3e54000, 8192, PROT_READ) = 0

[pid 2624] prlimit64(0, RLIMIT_STACK, NULL, {rlim_cur=8192*1024,
rlim_max=RLIM64_INFINITY}) = 0

[pid 2624] munmap(0x7f44a3e13000, 26299) = 0

```

```

[pid 2624] getRandom("\x98\x9b\x5b\x98\xeb\xc3\x0e\x5e", 8, GRND_NONBLOCK) = 8
[pid 2624] brk(NULL) = 0x55b2ccdbb000
[pid 2624] brk(0x55b2ccddc000) = 0x55b2ccddc000
[pid 2624] futex(0x7f44a3e1077c, FUTEX_WAKE_PRIVATE, 2147483647) = 0
[pid 2624] read(0, pivot;
<unfinished ...>
[pid 2456] <... read resumed>"pivot;\n", 1024) = 7
[pid 2456] pselect6(7, [6], NULL, NULL, {tv_sec=0, tv_nsec=0}, NULL) = 0 (Timeout)
[pid 2456] write(5, "\6\0\0\0", 4) = 4
[pid 2624] <... read resumed>"\6\0\0\0", 4) = 4
[pid 2456] write(5, "pivot;", 6 <unfinished ...>
[pid 2624] read(0, <unfinished ...>
[pid 2456] <... write resumed>) = 6
[pid 2624] <... read resumed>"pivot;", 6) = 6
[pid 2456] read(0, <unfinished ...>
[pid 2624] write(1, "pivot;\n", 7) = 7
[pid 2624] read(0, hello;
<unfinished ...>
[pid 2456] <... read resumed>"hello;\n", 1024) = 7
[pid 2456] pselect6(7, [6], NULL, NULL, {tv_sec=0, tv_nsec=0}, NULL) = 0 (Timeout)
[pid 2456] write(5, "\6\0\0\0", 4) = 4
[pid 2624] <... read resumed>"\6\0\0\0", 4) = 4
[pid 2456] write(5, "hello;", 6 <unfinished ...>
[pid 2624] read(0, <unfinished ...>
[pid 2456] <... write resumed>) = 6
[pid 2624] <... read resumed>"hello;", 6) = 6
[pid 2456] read(0, <unfinished ...>
[pid 2624] write(1, "hello;\n", 7) = 7
[pid 2624] read(0, ban?
<unfinished ...>
[pid 2456] <... read resumed>"ban?\n", 1024) = 5
[pid 2456] pselect6(7, [6], NULL, NULL, {tv_sec=0, tv_nsec=0}, NULL) = 0 (Timeout)
[pid 2456] write(5, "\4\0\0\0", 4) = 4

```

```

[pid 2624] <... read resumed>"\4\0\0\0", 4) = 4

[pid 2456] write(5, "ban?", 4 <unfinished ...>

[pid 2624] read(0, <unfinished ...>

[pid 2456] <... write resumed>          = 4

[pid 2624] <... read resumed>"ban?", 4) = 4

[pid 2456] read(0, <unfinished ...>

[pid 2624] write(2, "E\0\0\0", 4)      = 4

[pid 2624] write(2, "\320\241\321\202\321\200\320\276\320\272\320\260 \320\275\320\265
\320\276\320\272\320\260\320\275\321\207\320\270\320\262"... , 69) = 69

[pid 2624] exit_group(0)                = ?

[pid 2624] +++ exited with 0 +++

<... read resumed>0x560696bcb2c0, 1024) = ? ERESTARTSYS (To be restarted if SA_RESTART
is set)

--- SIGCHLD {si_signo=SIGCHLD, si_code=CLD_EXITED, si_pid=2624, si_uid=1000,
si_status=0, si_utime=1, si_stime=1} ---

read(0, baaan!

"baaan!\n", 1024)                        = 7

pselect6(7, [6], NULL, NULL, {tv_sec=0, tv_nsec=0}, NULL) = 1 (in [6], left {tv_sec=0,
tv_nsec=0})

wait4(-1, NULL, 0, NULL)                 = 2624

read(6, "E\0\0\0", 4)                   = 4

read(6, "\320\241\321\202\321\200\320\276\320\272\320\260 \320\275\320\265
\320\276\320\272\320\260\320\275\321\207\320\270\320\262"... , 69) = 69

write(1, "\320\241\321\202\321\200\320\276\320\272\320\260 \320\275\320\265
\320\276\320\272\320\260\320\275\321\207\320\270\320\262"... , 69Строка не оканчивается на
"." или ";": ban?

) = 69

close(5)                                = 0

close(6)                                = 0

close(3)                                = 0

exit_group(0)                            = ?

+++ exited with 0 +++

ЛП №2

strace ./lr2 1

execve("./lr2", ["../lr2", "1"], 0x7fff0007a8a8 /* 74 vars */) = 0

brk(NULL)                                = 0x5650ca00b000

arch_prctl(0x3001 /* ARCH_??? */, 0x7fff18ea20b0) = -1 EINVAL (Недопустимый аргумент)

```

```

mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0x7f447022b000

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=68035, ...}, AT_EMPTY_PATH) = 0
mmap(NULL, 68035, PROT_READ, MAP_PRIVATE, 3, 0) = 0x7f447021a000
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\0\3\0>\0\1\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) = 0x7f446fe00000
mprotect(0x7f446fe9a000, 1576960, PROT_NONE) = 0
mmap(0x7f446fe9a000, 1118208, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x9a000) = 0x7f446fe9a000
mmap(0x7f446ffab000, 454656, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3,
0x1ab000) = 0x7f446ffab000
mmap(0x7f447001b000, 57344, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x21a000) = 0x7f447001b000
mmap(0x7f4470029000, 10432, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS,
-1, 0) = 0x7f4470029000
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\0\3\0>\0\1\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) = 0x7f44701fa000
mmap(0x7f44701fd000, 94208, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x3000) = 0x7f44701fd000
mmap(0x7f4470214000, 16384, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x1a000)
= 0x7f4470214000
mmap(0x7f4470218000, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x1d000) = 0x7f4470218000
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\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) = 0x7f446fa00000

mmap(0x7f446fa28000, 1658880, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x28000) = 0x7f446fa28000

mmap(0x7f446fbbd000, 360448, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3,
0x1bd000) = 0x7f446fbbd000

mmap(0x7f446fc15000, 24576, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x214000) = 0x7f446fc15000

mmap(0x7f446fc1b000, 52816, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS,
-1, 0) = 0x7f446fc1b000

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\0\3\0>\0\1\0\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) = 0x7f4470113000

mmap(0x7f4470121000, 507904, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0xe000) = 0x7f4470121000

mmap(0x7f447019d000, 372736, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3,
0x8a000) = 0x7f447019d000

mmap(0x7f44701f8000, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0xe4000) = 0x7f44701f8000

close(3) = 0

mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0x7f4470111000

arch_prctl(ARCH_SET_FS, 0x7f44701123c0) = 0

set_tid_address(0x7f4470112690) = 7795

set_robust_list(0x7f44701126a0, 24) = 0

rseq(0x7f4470112d60, 0x20, 0, 0x53053053) = 0

mprotect(0x7f446fc15000, 16384, PROT_READ) = 0

mprotect(0x7f44701f8000, 4096, PROT_READ) = 0

mprotect(0x7f4470218000, 4096, PROT_READ) = 0

mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0x7f447010f000

mprotect(0x7f447001b000, 45056, PROT_READ) = 0

mprotect(0x5650c939b000, 4096, PROT_READ) = 0

mprotect(0x7f4470265000, 8192, PROT_READ) = 0

```

```

prlimit64(0, RLIMIT_STACK, NULL, {rlim_cur=8192*1024, rlim_max=RLIM64_INFINITY}) = 0
munmap(0x7f447021a000, 68035) = 0
getrandom("\x9a\x2f\xd0\xb6\x33\xfd\xc0\x66", 8, GRND_NONBLOCK) = 8
brk(NULL) = 0x5650ca00b000
brk(0x5650ca02c000) = 0x5650ca02c000
futex(0x7f447002977c, FUTEX_WAKE_PRIVATE, 2147483647) = 0
newfstatat(1, "", {st_mode=S_IFCHR|0620, st_rdev=makedev(0x88, 0x1), ...},
AT_EMPTY_PATH) = 0
write(1, "Enter the dimension of the matri"... 86Enter the dimension of the matrices
to be multiplied to fill them with random numbers
) = 86
write(1, "Matrix format: m*n, n*k, enter 3"... 49Matrix format: m*n, n*k, enter 3
natural numbers
) = 49
newfstatat(0, "", {st_mode=S_IFCHR|0620, st_rdev=makedev(0x88, 0x1), ...},
AT_EMPTY_PATH) = 0
read(0, 6 6 6
"6 6 6\n", 1024) = 6
write(1, "\n", 1
) = 1
rt_sigaction(SIGRT_1, {sa_handler=0x7f446fa91870, sa_mask=[],
sa_flags=SA_RESTORER|SA_ONSTACK|SA_RESTART|SA_SIGINFO, sa_restorer=0x7f446fa42520}, 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) =
0x7f446f1ff000
mprotect(0x7f446f200000, 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|CL
ONE_SETTLS|CLONE_PARENT_SETTID|CLONE_CHILD_CLEARTID, child_tid=0x7f446f9ff910,
parent_tid=0x7f446f9ff910, exit_signal=0, stack=0x7f446f1ff000, stack_size=0x7fff00,
tls=0x7f446f9ff640} => {parent_tid=[7816]}, 88) = 7816
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0
futex(0x7f446f9ff910, FUTEX_WAIT_BITSET|FUTEX_CLOCK_REALTIME, 7816, NULL,
FUTEX_BITSET_MATCH_ANY) = 0
write(1, "Result: 0.00216319 s\n", 21Result: 0.00216319 s
) = 21
lseek(0, -1, SEEK_CUR) = -1 ESPIPE (Недопустимая операция смещения)
exit_group(0) = ?
+++ exited with 0 ++

```

```

tanya@tanya:~/Рабочий стол/OOS/OS3sem/3$ strace ./main
execve("./main", [ "./main" ], 0x7fffc20921c0 /* 74 vars */) = 0
brk(NULL)                               = 0x5600223ce000
arch_prctl(0x3001 /* ARCH_??? */, 0x7ffebcbf3f10) = -1 EINVAL (Недопустимый аргумент)
mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0x7f20b4c59000
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=68035, ...}, AT_EMPTY_PATH) = 0
mmap(NULL, 68035, PROT_READ, MAP_PRIVATE, 3, 0) = 0x7f20b4c48000
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\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) = 0x7f20b4a00000
mprotect(0x7f20b4a9a000, 1576960, PROT_NONE) = 0
mmap(0x7f20b4a9a000, 1118208, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x9a000) = 0x7f20b4a9a000
mmap(0x7f20b4bab000, 454656, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3,
0x1ab000) = 0x7f20b4bab000
mmap(0x7f20b4c1b000, 57344, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x21a000) = 0x7f20b4c1b000
mmap(0x7f20b4c29000, 10432, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS,
-1, 0) = 0x7f20b4c29000
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\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) = 0x7f20b49e0000
mmap(0x7f20b49e3000, 94208, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x3000) = 0x7f20b49e3000
mmap(0x7f20b49fa000, 16384, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x1a000)
= 0x7f20b49fa000
mmap(0x7f20b49fe000, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x1d000) = 0x7f20b49fe000
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\0\3\0>\0\1\0\0\0P\237\2\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"... , 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) = 0x7f20b4600000

mmap(0x7f20b4628000, 1658880, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x28000) = 0x7f20b4628000

mmap(0x7f20b47bd000, 360448, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3,
0x1bd000) = 0x7f20b47bd000

mmap(0x7f20b4815000, 24576, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x214000) = 0x7f20b4815000

mmap(0x7f20b481b000, 52816, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS,
-1, 0) = 0x7f20b481b000

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\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) = 0x7f20b48f9000

mmap(0x7f20b4907000, 507904, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0xe000) = 0x7f20b4907000

mmap(0x7f20b4983000, 372736, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3,
0x8a000) = 0x7f20b4983000

mmap(0x7f20b49de000, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0xe4000) = 0x7f20b49de000

close(3) = 0

mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0x7f20b4c46000

arch_prctl(ARCH_SET_FS, 0x7f20b4c473c0) = 0

set_tid_address(0x7f20b4c47690) = 12347

set_robust_list(0x7f20b4c476a0, 24) = 0

rseq(0x7f20b4c47d60, 0x20, 0, 0x53053053) = 0

mprotect(0x7f20b4815000, 16384, PROT_READ) = 0

mprotect(0x7f20b49de000, 4096, PROT_READ) = 0

mprotect(0x7f20b49fe000, 4096, PROT_READ) = 0

mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0x7f20b4c44000

```



```

mprotect(0x7f20b4c1b000, 45056, PROT_READ) = 0
mprotect(0x56002167c000, 4096, PROT_READ) = 0
mprotect(0x7f20b4c93000, 8192, PROT_READ) = 0
prlimit64(0, RLIMIT_STACK, NULL, {rlim_cur=8192*1024, rlim_max=RLIM64_INFINITY}) = 0
munmap(0x7f20b4c48000, 68035) = 0
getrandom("\x93\xc1\xb7\x98\xc8\x96\x26\x74", 8, GRND_NONBLOCK) = 8
brk(NULL) = 0x5600223ce000
brk(0x5600223ef000) = 0x5600223ef000
futex(0x7f20b4c2977c, FUTEX_WAKE_PRIVATE, 2147483647) = 0
openat(AT_FDCWD, "/dev/shm/myshm", O_RDWR|O_CREAT|O_NOFOLLOW|O_CLOEXEC, 0666) = 3
ftruncate(3, 1024) = 0
mmap(NULL, 1024, PROT_READ|PROT_WRITE, MAP_SHARED, 3, 0) = 0x7f20b4c92000
newfstatat(0, "", {st_mode=S_IFCHR|0620, st_rdev=makedev(0x88, 0x2), ...},
AT_EMPTY_PATH) = 0
read(0, hiodxjsiv;
"hiodxjsiv;\n", 1024) = 11
clone(child_stack=NULL, flags=CLONE_CHILD_CLEARTID|CLONE_CHILD_SETTID|SIGCHLD,
child_tidptr=0x7f20b4c47690) = 12372
wait4(-1, hiodxjsiv;
NULL, 0, NULL) = 12372
--- SIGCHLD {si_signo=SIGCHLD, si_code=CLD_EXITED, si_pid=12372, si_uid=1000,
si_status=0, si_utime=0, si_stime=0} ---
munmap(0x7f20b4c92000, 1024) = 0
close(3) = 0
unlink("/dev/shm/myshm") = 0
exit_group(0) = ?
+++ exited with 0 +++

```

ЛП №4

tanya@tanya:~/Рабочий стол/4\$ strace ./main2

```
execve("./main2", ["/main2"], 0x7ffc6dd2a3e0 /* 74 vars */) = 0
brk(NULL)                                = 0x555d8a341000
arch_prctl(0x3001 /* ARCH_??? */, 0x7ffc364e3c0) = -1 EINVAL (Недопустимый аргумент)
mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0x7fe26dbe4000
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=68035, ...}, AT_EMPTY_PATH) = 0
mmap(NULL, 68035, PROT_READ, MAP_PRIVATE, 3, 0) = 0x7fe26dbd3000
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\3\0>\0\1\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) = 0x7fe26d800000
mprotect(0x7fe26d89a000, 1576960, PROT_NONE) = 0
mmap(0x7fe26d89a000, 1118208, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x9a000) = 0x7fe26d89a000
mmap(0x7fe26d9ab000, 454656, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3,
0x1ab000) = 0x7fe26d9ab000
mmap(0x7fe26da1b000, 57344, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x21a000) = 0x7fe26da1b000
mmap(0x7fe26da29000, 10432, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS,
-1, 0) = 0x7fe26da29000
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\3\0\0\0\0\0\0\0\3\0>\0\1\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) = 0x7fe26dbb3000
mmap(0x7fe26dbb6000, 94208, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x3000) = 0x7fe26dbb6000
mmap(0x7fe26dbcd000, 16384, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x1a000)
= 0x7fe26dbcd000
mmap(0x7fe26dbd1000, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x1d000) = 0x7fe26dbd1000
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\3\0>\0\1\0\0\0P\237\2\0\0\0\0"..., 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) = 0x7fe26d400000

mmap(0x7fe26d428000, 1658880, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x28000) = 0x7fe26d428000

mmap(0x7fe26d5bd000, 360448, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3,
0x1bd000) = 0x7fe26d5bd000

mmap(0x7fe26d615000, 24576, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x214000) = 0x7fe26d615000

mmap(0x7fe26d61b000, 52816, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS,
-1, 0) = 0x7fe26d61b000

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\0\3\0>\0\1\0\0\0\0\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) = 0x7fe26dacc000

mmap(0x7fe26dada000, 507904, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0xe000) = 0x7fe26dada000

mmap(0x7fe26db56000, 372736, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3,
0x8a000) = 0x7fe26db56000

mmap(0x7fe26dbb1000, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0xe4000) = 0x7fe26dbb1000

close(3) = 0

mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0x7fe26daca000

arch_prctl(ARCH_SET_FS, 0x7fe26dacb3c0) = 0

set_tid_address(0x7fe26dacb690) = 6456

set_robust_list(0x7fe26dacb6a0, 24) = 0

rseq(0x7fe26dacbd60, 0x20, 0, 0x53053053) = 0

mprotect(0x7fe26d615000, 16384, PROT_READ) = 0

mprotect(0x7fe26dbb1000, 4096, PROT_READ) = 0

mprotect(0x7fe26dbd1000, 4096, PROT_READ) = 0

mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0x7fe26dac8000

```

```

mprotect(0x7fe26da1b000, 45056, PROT_READ) = 0
mprotect(0x555d89e3c000, 4096, PROT_READ) = 0
mprotect(0x7fe26dc1e000, 8192, PROT_READ) = 0
prlimit64(0, RLIMIT_STACK, NULL, {rlim_cur=8192*1024, rlim_max=RLIM64_INFINITY}) = 0
munmap(0x7fe26dbd3000, 68035) = 0
getrandom("\xd8\x7e\xe0\xf9\xb1\xa2\xc9\xaa", 8, GRND_NONBLOCK) = 8
brk(NULL) = 0x555d8a341000
brk(0x555d8a362000) = 0x555d8a362000
futex(0x7fe26da2977c, FUTEX_WAKE_PRIVATE, 2147483647) = 0
openat(AT_FDCWD, "./libGCF.so", O_RDONLY|O_CLOEXEC) = 3
read(3, "\177ELF\2\1\1\0\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|0775, st_size=15200, ...}, AT_EMPTY_PATH) = 0
getcwd("/home/tanya/\320\240\320\260\320\261\320\276\321\207\320\270\320\271\321\201\321\202\320\276\320\273/4", 128) = 38
mmap(NULL, 16424, PROT_READ, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) = 0x7fe26dbdf000
mmap(0x7fe26dbe0000, 4096, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x1000) = 0x7fe26dbe0000
mmap(0x7fe26dbe1000, 4096, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x2000) = 0x7fe26dbe1000
mmap(0x7fe26dbe2000, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x2000) = 0x7fe26dbe2000
close(3) = 0
mprotect(0x7fe26dbe2000, 4096, PROT_READ) = 0
openat(AT_FDCWD, "./libSort.so", O_RDONLY|O_CLOEXEC) = 3
read(3, "\177ELF\2\1\1\0\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|0775, st_size=15432, ...}, AT_EMPTY_PATH) = 0
getcwd("/home/tanya/\320\240\320\260\320\261\320\276\321\207\320\270\320\271\321\201\321\202\320\276\320\273/4", 128) = 38
mmap(NULL, 16432, PROT_READ, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) = 0x7fe26dbda000
mmap(0x7fe26dbdb000, 4096, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x1000) = 0x7fe26dbdb000
mmap(0x7fe26dbdbc000, 4096, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x2000) = 0x7fe26dbdbc000
mmap(0x7fe26dbddd000, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x2000) = 0x7fe26dbddd000
close(3) = 0
mprotect(0x7fe26dbddd000, 4096, PROT_READ) = 0
newfstatat(1, "", {st_mode=S_IFCHR|0620, st_rdev=makedev(0x88, 0), ...}, AT_EMPTY_PATH) = 0
write(1, "Choose command: \n", 17Choose command:

```

```

)      = 17
write(1, "\t0 - switch algo in lib,\n", 25      0 - switch algo in lib,
) = 25
write(1, "\t1 - calculate sin integral,\n", 29      1 - calculate sin integral,
) = 29
write(1, "\t2 - calculate cos derivative,\n", 31      2 - calculate cos derivative,
) = 31
write(1, "\t3 - exit.\n", 11      3 - exit.
)
      = 11
write(1, "===== "...,
44=====
) = 44
newfstatat(0, "", {st_mode=S_IFCHR|0620, st_rdev=makedev(0x88, 0), ...}, AT_EMPTY_PATH)
= 0
read(0, 1
"1\n", 1024)      = 2
read(0, 16
"16\n", 1024)      = 3
read(0, 28
"28\n", 1024)      = 3
write(1, "GCF is: 4\n", 10GCF is: 4
)      = 10
read(0, 0
"0\n", 1024)      = 2
write(1, "Algo switched to second\n", 24Algo switched to second
) = 24
read(0, 16
"16\n", 1024)      = 3
write(1, "Invalid command\n", 16Invalid command
)      = 16
read(0, 28
"28\n", 1024)      = 3
write(1, "Invalid command\n", 16Invalid command
)      = 16
read(0, 1
"1\n", 1024)      = 2

```

```

read(0, 16
"16 \n", 1024)          = 4
read(0, 28
"28\n", 1024)           = 3
write(1, "GCF is: 4\n", 10GCF is: 4
)                        = 10
read(0, 0
"0\n", 1024)            = 2
write(1, "Algo switched to first\n", 23Algo switched to first
) = 23
read(0, 2
"2\n", 1024)            = 2
read(0, 4
"4\n", 1024)            = 2
write(1, "\n", 1
)                        = 1
write(1, "Enter an array :", 16Enter an array :)    = 16
read(0, 1
"1\n", 1024)            = 2
read(0, 8
"8\n", 1024)            = 2
read(0, -8
"-8\n", 1024)           = 3
read(0, 9
"9\n", 1024)            = 2
write(1, "\n", 1
)                        = 1
write(1, "Sorted: -8 1 8 9 \n", 18Sorted: -8 1 8 9
)      = 18
read(0, 3
"3\n", 1024)            = 2
--- SIGSEGV {si_signo=SIGSEGV, si_code=SEGV_MAPERR, si_addr=0x1fffffffff0} ---
+++ killed by SIGSEGV (core dumped) +++

```

JIP №5

strace ./lab

```

execve("./lab", ["/lab"], 0x7ffcfc9aa090 /* 74 vars */) = 0
brk(NULL) = 0x56419a125000
arch_prctl(0x3001 /* ARCH_??? */, 0x7ffe06080470) = -1 EINVAL (Недопустимый аргумент)
mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0x7f5b1b44f000
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=71451, ...}, AT_EMPTY_PATH) = 0
mmap(NULL, 71451, PROT_READ, MAP_PRIVATE, 3, 0) = 0x7f5b1b43d000
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\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) = 0x7f5b1b3a1000
mmap(0x7f5b1b3b9000, 397312, PROT_READ|PROT_EXEC,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x18000) = 0x7f5b1b3b9000
mmap(0x7f5b1b41a000, 106496, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x79000) = 0x7f5b1b41a000
mmap(0x7f5b1b434000, 36864, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x92000) = 0x7f5b1b434000
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\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) = 0x7f5b1b000000
mprotect(0x7f5b1b09a000, 1576960, PROT_NONE) = 0
mmap(0x7f5b1b09a000, 1118208, PROT_READ|PROT_EXEC,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x9a000) = 0x7f5b1b09a000
mmap(0x7f5b1b1ab000, 454656, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x1ab000) = 0x7f5b1b1ab000
mmap(0x7f5b1b21b000, 57344, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x21a000) = 0x7f5b1b21b000
mmap(0x7f5b1b229000, 10432, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) = 0x7f5b1b229000
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\3\0>\0\1\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) = 0x7f5b1b381000
mmap(0x7f5b1b384000, 94208, PROT_READ|PROT_EXEC,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x3000) = 0x7f5b1b384000
mmap(0x7f5b1b39b000, 16384, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3,
0x1a000) = 0x7f5b1b39b000
mmap(0x7f5b1b39f000, 8192, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x1d000) = 0x7f5b1b39f000
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\3\0>\0\1\0\0\0P\237\2\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"..., 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"..., 48, 848) = 48
pread64(3, "\4\0\0\0\24\0\0\0\3\0\0\0GNU\0 =\340\256\3\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"..., 784, 64) = 784
mmap(NULL, 2260560, PROT_READ, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) = 0x7f5b1ac00000
mmap(0x7f5b1ac28000, 1658880, PROT_READ|PROT_EXEC,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x28000) = 0x7f5b1ac28000
mmap(0x7f5b1adb000, 360448, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x1bd000) = 0x7f5b1adb000
mmap(0x7f5b1ae15000, 24576, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x214000) = 0x7f5b1ae15000
mmap(0x7f5b1ae1b000, 52816, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) = 0x7f5b1ae1b000
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\3\0>\0\1\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) = 0x7f5b1b369000
mprotect(0x7f5b1b36d000, 69632, PROT_NONE) = 0
mmap(0x7f5b1b36d000, 53248, PROT_READ|PROT_EXEC,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x4000) = 0x7f5b1b36d000
```



```
mmap(0x7f5b1b37a000, 12288, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x11000) = 0x7f5b1b37a000

mmap(0x7f5b1b37e000, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x14000) = 0x7f5b1b37e000

mmap(0x7f5b1b380000, 224, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) = 0x7f5b1b380000

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\3\0>\0\1\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) = 0x7f5b1b311000

mprotect(0x7f5b1b31d000, 303104, PROT_NONE) = 0

mmap(0x7f5b1b31d000, 229376, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0xc000) = 0x7f5b1b31d000

mmap(0x7f5b1b355000, 69632, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x44000) = 0x7f5b1b355000

mmap(0x7f5b1b367000, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x55000) = 0x7f5b1b367000

close(3) = 0

mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) = 0x7f5b1b30f000

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\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) = 0x7f5b1b2be000

mmap(0x7f5b1b2c2000, 172032, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x4000) = 0x7f5b1b2c2000

mmap(0x7f5b1b2ec000, 118784, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x2e000) = 0x7f5b1b2ec000

mmap(0x7f5b1b309000, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x4a000) = 0x7f5b1b309000

mmap(0x7f5b1b30b000, 14416, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) = 0x7f5b1b30b000

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\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) = 0x7f5b1aed5000
mprotect(0x7f5b1aedef000, 446464, PROT_NONE) = 0
mmap(0x7f5b1aedef000, 286720, PROT_READ|PROT_EXEC,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0xa000) = 0x7f5b1aedef000
mmap(0x7f5b1af25000, 155648, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x50000) = 0x7f5b1af25000
mmap(0x7f5b1af4c000, 16384, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x76000) = 0x7f5b1af4c000
mmap(0x7f5b1af50000, 719360, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) = 0x7f5b1af50000
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\3\0>\0\1\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) = 0x7f5b1b26a000
mprotect(0x7f5b1b275000, 282624, PROT_NONE) = 0
mmap(0x7f5b1b275000, 229376, PROT_READ|PROT_EXEC,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0xb000) = 0x7f5b1b275000
mmap(0x7f5b1b2ad000, 49152, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3,
0x43000) = 0x7f5b1b2ad000
mmap(0x7f5b1b2ba000, 16384, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x4f000) = 0x7f5b1b2ba000
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\3\0>\0\1\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) = 0x7f5b1ab19000
mmap(0x7f5b1ab27000, 507904, PROT_READ|PROT_EXEC,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0xe000) = 0x7f5b1ab27000
mmap(0x7f5b1aba3000, 372736, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x8a000) = 0x7f5b1aba3000
mmap(0x7f5b1abfe000, 8192, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0xe4000) = 0x7f5b1abfe000
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\3\0>\0\1\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) = 0x7f5b1b25d000
mmap(0x7f5b1b25f000, 28672, PROT_READ|PROT_EXEC,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x2000) = 0x7f5b1b25f000
mmap(0x7f5b1b266000, 8192, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3,
0x9000) = 0x7f5b1b266000
mmap(0x7f5b1b268000, 8192, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0xa000) = 0x7f5b1b268000
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\3\0>\0\1\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) =
0x7f5b1b25b000
mmap(NULL, 16424, PROT_READ, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) = 0x7f5b1b256000
mmap(0x7f5b1b257000, 4096, PROT_READ|PROT_EXEC,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x1000) = 0x7f5b1b257000
mmap(0x7f5b1b258000, 4096, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3,
0x2000) = 0x7f5b1b258000
mmap(0x7f5b1b259000, 8192, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x2000) = 0x7f5b1b259000
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\3\0>\0\1\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) = 0x7f5b1aa4e000
mprotect(0x7f5b1aa6f000, 634880, PROT_NONE) = 0
mmap(0x7f5b1aa6f000, 380928, PROT_READ|PROT_EXEC,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x21000) = 0x7f5b1aa6f000
mmap(0x7f5b1aacc000, 249856, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,
3, 0x7e000) = 0x7f5b1aacc000
mmap(0x7f5b1ab0a000, 61440, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0xbb000) = 0x7f5b1ab0a000
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\3\0>\0\1\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) = 0x7f5b1aea6000
mprotect(0x7f5b1aeaa000, 163840, PROT_NONE) = 0
mmap(0x7f5b1aeaa000, 110592, PROT_READ|PROT_EXEC,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x4000) = 0x7f5b1aeaa000
mmap(0x7f5b1aec5000, 49152, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3,
0x1f000) = 0x7f5b1aec5000
mmap(0x7f5b1aed2000, 8192, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x2b000) = 0x7f5b1aed2000
mmap(0x7f5b1aed4000, 56, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) = 0x7f5b1aed4000
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\3\0>\0\1\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) = 0x7f5b1b250000
mmap(0x7f5b1b252000, 4096, PROT_READ|PROT_EXEC,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x2000) = 0x7f5b1b252000
mmap(0x7f5b1b253000, 4096, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3,
0x3000) = 0x7f5b1b253000
mmap(0x7f5b1b254000, 8192, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x3000) = 0x7f5b1b254000
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\3\0>\0\1\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) = 0x7f5b1b242000
mprotect(0x7f5b1b245000, 36864, PROT_NONE) = 0
mmap(0x7f5b1b245000, 24576, PROT_READ|PROT_EXEC,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x3000) = 0x7f5b1b245000
mmap(0x7f5b1b24b000, 8192, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3,
0x9000) = 0x7f5b1b24b000
mmap(0x7f5b1b24e000, 8192, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0xb000) = 0x7f5b1b24e000
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\3\0>\0\1\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) =
0x7f5b1b240000

mmap(NULL, 24592, PROT_READ, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) = 0x7f5b1b239000

mmap(0x7f5b1b23b000, 8192, PROT_READ|PROT_EXEC,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x2000) = 0x7f5b1b23b000

mmap(0x7f5b1b23d000, 4096, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3,
0x4000) = 0x7f5b1b23d000

mmap(0x7f5b1b23e000, 8192, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x4000) = 0x7f5b1b23e000

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\3\0>\0\1\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) = 0x7f5b1ae92000

mmap(0x7f5b1ae95000, 40960, PROT_READ|PROT_EXEC,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x3000) = 0x7f5b1ae95000

mmap(0x7f5b1ae9f000, 12288, PROT_READ, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3,
0xd000) = 0x7f5b1ae9f000

mmap(0x7f5b1aea2000, 8192, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0xf000) = 0x7f5b1aea2000

mmap(0x7f5b1aea4000, 6728, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) = 0x7f5b1aea4000

close(3) = 0

mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0x7f5b1b237000

mmap(NULL, 12288, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0x7f5b1b234000

arch_prctl(ARCH_SET_FS, 0x7f5b1b2349c0) = 0

set_tid_address(0x7f5b1b234c90) = 6044

set_robust_list(0x7f5b1b234ca0, 24) = 0

rseq(0x7f5b1b235360, 0x20, 0, 0x53053053) = 0

mprotect(0x7f5b1ae15000, 16384, PROT_READ) = 0

mprotect(0x7f5b1aea2000, 4096, PROT_READ) = 0

mprotect(0x7f5b1b23e000, 4096, PROT_READ) = 0

```

```

mprotect(0x7f5b1b24e000, 4096, PROT_READ) = 0
mprotect(0x7f5b1b254000, 4096, PROT_READ) = 0
mprotect(0x7f5b1aed2000, 4096, PROT_READ) = 0
mprotect(0x7f5b1ab0a000, 53248, PROT_READ) = 0
mprotect(0x7f5b1b259000, 4096, PROT_READ) = 0
mprotect(0x7f5b1b268000, 4096, PROT_READ) = 0
mprotect(0x7f5b1abfe000, 4096, PROT_READ) = 0
mprotect(0x7f5b1b2ba000, 8192, PROT_READ) = 0
mprotect(0x7f5b1b39f000, 4096, PROT_READ) = 0
mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0x7f5b1b232000
mprotect(0x7f5b1b21b000, 45056, PROT_READ) = 0
mprotect(0x7f5b1af4c000, 12288, PROT_READ) = 0
mprotect(0x7f5b1b309000, 4096, PROT_READ) = 0
mprotect(0x7f5b1b367000, 4096, PROT_READ) = 0
mprotect(0x7f5b1b37e000, 4096, PROT_READ) = 0
mprotect(0x7f5b1b434000, 32768, PROT_READ) = 0
mprotect(0x5641992fc000, 4096, PROT_READ) = 0
mprotect(0x7f5b1b489000, 8192, PROT_READ) = 0
prlimit64(0, RLIMIT_STACK, NULL, {rlim_cur=8192*1024, rlim_max=RLIM64_INFINITY}) = 0
munmap(0x7f5b1b43d000, 71451) = 0
getrandom("\xd6\xbd\xf5\x30\xd6\x93\xbd\x77", 8, GRND_NONBLOCK) = 8
brk(NULL) = 0x56419a125000
brk(0x56419a146000) = 0x56419a146000
futex(0x7f5b1b22977c, FUTEX_WAKE_PRIVATE, 2147483647) = 0
rt_sigaction(SIGCHLD, {sa_handler=0x5641992ebc74, sa_mask=[CHLD],
sa_flags=SA_RESTORER|SA_RESTART, sa_restorer=0x7f5b1ac42520}, {sa_handler=SIG_DFL,
sa_mask=[], sa_flags=0}, 8) = 0
openat(AT_FDCWD, "/sys/devices/system/cpu/online", O_RDONLY|O_CLOEXEC) = 3
read(3, "0-3\n", 1024) = 4
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, 0x56419a136ee0 /* 22 entries */, 32768) = 656
getdents64(3, 0x56419a136ee0 /* 0 entries */, 32768) = 0
close(3) = 0
getpid() = 6044
sched_getaffinity(6044, 128, [0, 1, 2, 3]) = 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=71451, ...}, AT_EMPTY_PATH) = 0
mmap(NULL, 71451, PROT_READ, MAP_PRIVATE, 3, 0) = 0x7f5b1b43d000
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", 0x7ffe0607d450, 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", 0x7ffe0607d450, 0) = -1
ENOENT (Нет такого файла или каталога)
openat(AT_FDCWD, "/lib/x86_64-linux-gnu/tls/haswell/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/haswell/x86_64", 0x7ffe0607d450, 0) = -1
ENOENT (Нет такого файла или каталога)
openat(AT_FDCWD, "/lib/x86_64-linux-gnu/tls/haswell/libnss_db.so.2", O_RDONLY|O_CLOEXEC) =
-1 ENOENT (Нет такого файла или каталога)
newfstatat(AT_FDCWD, "/lib/x86_64-linux-gnu/tls/haswell", 0x7ffe0607d450, 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", 0x7ffe0607d450, 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", 0x7ffe0607d450, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT_FDCWD, "/lib/x86_64-linux-gnu/haswell/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/haswell/x86_64", 0x7ffe0607d450, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT_FDCWD, "/lib/x86_64-linux-gnu/haswell/libnss_db.so.2", O_RDONLY|O_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT_FDCWD, "/lib/x86_64-linux-gnu/haswell", 0x7ffe0607d450, 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", 0x7ffe0607d450, 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=86016, ...}, 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", 0x7ffe0607d450, 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", 0x7ffe0607d450, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT_FDCWD, "/usr/lib/x86_64-linux-gnu/tls/haswell/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/haswell/x86_64", 0x7ffe0607d450, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT_FDCWD, "/usr/lib/x86_64-linux-gnu/tls/haswell/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/haswell", 0x7ffe0607d450, 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", 0x7ffe0607d450, 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", 0x7ffe0607d450, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT_FDCWD, "/usr/lib/x86_64-linux-gnu/haswell/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/haswell/x86_64", 0x7ffe0607d450, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT_FDCWD, "/usr/lib/x86_64-linux-gnu/haswell/libnss_db.so.2", O_RDONLY|O_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT_FDCWD, "/usr/lib/x86_64-linux-gnu/haswell", 0x7ffe0607d450, 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", 0x7ffe0607d450, 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=86016, ...}, 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", 0x7ffe0607d450, 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", 0x7ffe0607d450, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT_FDCWD, "/lib/tls/haswell/x86_64/libnss_db.so.2", O_RDONLY|O_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT_FDCWD, "/lib/tls/haswell/x86_64", 0x7ffe0607d450, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT_FDCWD, "/lib/tls/haswell/libnss_db.so.2", O_RDONLY|O_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT_FDCWD, "/lib/tls/haswell", 0x7ffe0607d450, 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", 0x7ffe0607d450, 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", 0x7ffe0607d450, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT_FDCWD, "/lib/haswell/x86_64/libnss_db.so.2", O_RDONLY|O_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT_FDCWD, "/lib/haswell/x86_64", 0x7ffe0607d450, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT_FDCWD, "/lib/haswell/libnss_db.so.2", O_RDONLY|O_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT_FDCWD, "/lib/haswell", 0x7ffe0607d450, 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", 0x7ffe0607d450, 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", 0x7ffe0607d450, 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", 0x7ffe0607d450, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT_FDCWD, "/usr/lib/tls/haswell/x86_64/libnss_db.so.2", O_RDONLY|O_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT_FDCWD, "/usr/lib/tls/haswell/x86_64", 0x7ffe0607d450, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT_FDCWD, "/usr/lib/tls/haswell/libnss_db.so.2", O_RDONLY|O_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT_FDCWD, "/usr/lib/tls/haswell", 0x7ffe0607d450, 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", 0x7ffe0607d450, 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", 0x7ffe0607d450, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT_FDCWD, "/usr/lib/haswell/x86_64/libnss_db.so.2", O_RDONLY|O_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT_FDCWD, "/usr/lib/haswell/x86_64", 0x7ffe0607d450, 0) = -1 ENOENT (Нет такого файла или каталога)

openat(AT_FDCWD, "/usr/lib/haswell/libnss_db.so.2", O_RDONLY|O_CLOEXEC) = -1 ENOENT (Нет такого файла или каталога)

newfstatat(AT_FDCWD, "/usr/lib/haswell", 0x7ffe0607d450, 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", 0x7ffe0607d450, 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(0x7f5b1b43d000, 71451) = 0

openat(AT_FDCWD, "/etc/ld.so.cache", O_RDONLY|O_CLOEXEC) = 3

newfstatat(3, "", {st_mode=S_IFREG|0644, st_size=71451, ...}, AT_EMPTY_PATH) = 0

mmap(NULL, 71451, PROT_READ, MAP_PRIVATE, 3, 0) = 0x7f5b1b43d000

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(0x7f5b1b43d000, 71451) = 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

```

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()                           = 6044

getpid()                           = 6044

getrandom("\x7f\x89\x11\x74\x8c\x3f\xa1\x80\x77\xc0\x69\xb1\xcc\xd6\x67\x21", 16, 0) = 16

getrandom("\xfc\xab\x5d\x47\x49\xda\x73\x2b\xdc\xdd\x44\xbb\x79\xc4\x59\x20", 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()                           = 6044

epoll_create1(EPoll_CLOEXEC)       = 5

epoll_ctl(5, EPOLL_CTL_ADD, 4, {events=0, data={u32=2584965728, u64=94839757828704}}) = 0

epoll_ctl(5, EPOLL_CTL_MOD, 4, {events=EPOLLIN, data={u32=2584965728,
u64=94839757828704}}) = 0

getpid()                           = 6044

rt_sigaction(SIGRT_1, {sa_handler=0x7f5b1ac91870, sa_mask=[],
sa_flags=SA_RESTORER|SA_ONSTACK|SA_RESTART|SA_SIGINFO,
sa_restorer=0x7f5b1ac42520}, 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) =
0x7f5b1a24d000

mprotect(0x7f5b1a24e000, 8388608, PROT_READ|PROT_WRITE) = 0

rt_sigprocmask(SIG_BLOCK, ~[], [], 8) = 0

clone3({flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLO
NE_SYSVSEM|CLONE_SETTLS|CLONE_PARENT_SETTID|CLONE_CHILD_CLEARTID,
child_tid=0x7f5b1aa4d910, parent_tid=0x7f5b1aa4d910, exit_signal=0, stack=0x7f5b1a24d000,
stack_size=0x7ffc80, tls=0x7f5b1aa4d640} => {parent_tid=[6056]}, 88) = 6056

rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0

eventfd2(0, EFD_CLOEXEC)          = 6

fcntl(6, F_GETFL)                  = 0x2 (flags O_RDWR)

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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() = 6044
epoll_create1(EPoll_CLOEXEC) = 7
epoll_ctl(7, EPOLL_CTL_ADD, 6, {events=0, data={u32=2584986784, u64=94839757849760}}) = 0
epoll_ctl(7, EPOLL_CTL_MOD, 6, {events=EPOLLIN, data={u32=2584986784,
u64=94839757849760}}) = 0
mmap(NULL, 8392704, PROT_NONE, MAP_PRIVATE|MAP_ANONYMOUS|MAP_STACK, -1, 0) =
0x7f5b19a4c000
mprotect(0x7f5b19a4d000, 8388608, PROT_READ|PROT_WRITE) = 0
rt_sigprocmask(SIG_BLOCK, ~[], [], 8) = 0
clone3({flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLO
NE_SYSVSEM|CLONE_SETTLS|CLONE_PARENT_SETTID|CLONE_CHILD_CLEARTID,
child_tid=0x7f5b1a24c910, parent_tid=0x7f5b1a24c910, exit_signal=0, stack=0x7f5b19a4c000,
stack_size=0x7ffc80, tls=0x7f5b1a24c640} => {parent_tid=[6057]}, 88) = 6057
rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 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() = 6044
getpid() = 6044
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(30000), sin_addr=inet_addr("0.0.0.0")}, 16) = 0
listen(9, 100) = 0
getsockname(9, {sa_family=AF_INET, sin_port=htons(30000), sin_addr=inet_addr("0.0.0.0")},
[128 => 16]) = 0
getsockname(9, {sa_family=AF_INET, sin_port=htons(30000), sin_addr=inet_addr("0.0.0.0")},
[128 => 16]) = 0
getpid() = 6044
write(6, "\1\0\0\0\0\0\0", 8) = 8

```

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getpid() = 6044

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

mmap(NULL, 8392704, PROT_NONE, MAP_PRIVATE|MAP_ANONYMOUS|MAP_STACK, -1, 0) =
0x7f5b1924b000

mprotect(0x7f5b1924c000, 8388608, PROT_READ|PROT_WRITE) = 0

rt_sigprocmask(SIG_BLOCK, ~[], [], 8) = 0

clone3({flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLO
NE_SYSVSEM|CLONE_SETTLS|CLONE_PARENT_SETTID|CLONE_CHILD_CLEARTID,
child_tid=0x7f5b19a4b910, parent_tid=0x7f5b19a4b910, exit_signal=0, stack=0x7f5b1924b000,
stack_size=0x7ffc80, tls=0x7f5b19a4b640} => {parent_tid=[6058]}, 88) = 6058

rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0

mmap(NULL, 8392704, PROT_NONE, MAP_PRIVATE|MAP_ANONYMOUS|MAP_STACK, -1, 0) =
0x7f5b18a4a000

mprotect(0x7f5b18a4b000, 8388608, PROT_READ|PROT_WRITE) = 0

rt_sigprocmask(SIG_BLOCK, ~[], [], 8) = 0

clone3({flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLO
NE_SYSVSEM|CLONE_SETTLS|CLONE_PARENT_SETTID|CLONE_CHILD_CLEARTID,
child_tid=0x7f5b1924a910, parent_tid=0x7f5b1924a910, exit_signal=0, stack=0x7f5b18a4a000,
stack_size=0x7ffc80, tls=0x7f5b1924a640} => {parent_tid=[6059]}, 88) = 6059

rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0

mmap(NULL, 8392704, PROT_NONE, MAP_PRIVATE|MAP_ANONYMOUS|MAP_STACK, -1, 0) =
0x7f5b18249000

mprotect(0x7f5b1824a000, 8388608, PROT_READ|PROT_WRITE) = 0

rt_sigprocmask(SIG_BLOCK, ~[], [], 8) = 0

clone3({flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLO
NE_SYSVSEM|CLONE_SETTLS|CLONE_PARENT_SETTID|CLONE_CHILD_CLEARTID,
child_tid=0x7f5b18a49910, parent_tid=0x7f5b18a49910, exit_signal=0, stack=0x7f5b18249000,
stack_size=0x7ffc80, tls=0x7f5b18a49640} => {parent_tid=[6060]}, 88) = 6060

rt_sigprocmask(SIG_SETMASK, [], NULL, 8) = 0

eventfd2(0, EFD_CLOEXEC) = 13

fcntl(13, F_GETFL) = 0x2 (flags O_RDWR)

fcntl(13, F_SETFL, O_RDWR|O_NONBLOCK) = 0

fcntl(13, F_GETFL) = 0x802 (flags O_RDWR|O_NONBLOCK)

fcntl(13, F_SETFL, O_RDWR|O_NONBLOCK) = 0

getpid() = 6044

getpid() = 6044

poll([{fd=13, events=POLLIN}], 1, 0) = 0 (Timeout)

```

getpid() = 6044

write(12, "\\1\\0\\0\\0\\0\\0\\0", 8) = 8

clock_nanosleep(CLOCK_REALTIME, 0, {tv_sec=0, tv_nsec=100000000}, 0x7ffe06080220) = 0

getpid() = 6044

poll([{fd=13, events=POLLIN}], 1, 0) = 0 (Timeout)

clock_nanosleep(CLOCK_REALTIME, 0, {tv_sec=0, tv_nsec=100000000}, 0x7ffe06080220) = 0

getpid() = 6044

[...]

Вывод

В ходе лабораторной работы изучила утилиту strace, а также ее флаги. Данную утилиту я использовала, чтобы тщательно отследить работу системных вызовов. Утилита strace — простой и надёжный инструмент. Но помимо системных вызовов отлаживать случается и другие аспекты работы программ и операционной системы. Например, отслеживать вызовы динамически линкуемых библиотек.