Московский Авиационный Институт

(Национальный Исследовательский Университет)

Институт №8 “Компьютерные науки и прикладная математика”

Кафедра №806 “Вычислительная математика и программирование”

**Лабораторная работа №8 по курсу**

**«Операционные системы»**

Группа: М80-206Б-22

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***Цель работы:***

Приобретение практических навыков диагностики работы программного обеспечения. 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**

В Unix-подобных операционных системах, программа общается с системой с помощью системных вызовов. Наш мир не идеален, и даже под капотом нашей программы что-то может пойти не так, чтобы понять, что пошло не так, нужно видеть что происходило и для этого мы используем утилиту -strace, которая выводит историю работы системный вызовов.

Как и у любой утилиты, у неё есть флаги:

-i - выводить указатель на инструкцию во время выполнения системного вызова;

-k - выводить стек вызовов для отслеживаемого процесса после каждого системного вызова;

-o - выводить всю информацию о системных вызовах не в стандартный поток ошибок, а в файл;

-q - не выводить сообщения о подключении о отключении от процесса;

-qq - не выводить сообщения о завершении работы процесса;

-r - выводить временную метку для каждого системного вызова;

-s - указать максимальный размер выводимой строки, по умолчанию 32;

-t - выводить время суток для каждого вызова;

-tt - добавить микросекунды;

-ttt - добавить микросекунды и количество секунд после начала эпохи Unix;

-T - выводить длительность выполнения системного вызова;

-x - выводить все не ASCI-строки в шестнадцатеричном виде;

-xx - выводить все строки в шестнадцатеричном виде;

-y - выводить пути для файловых дескрипторов;

-yy - выводить информацию о протоколе для файловых дескрипторов;

-c - подсчитывать количество ошибок, вызовов и время выполнения для каждого системного вызова;

-O - добавить определённое количество микросекунд к счетчику времени для каждого вызова;

-S - сортировать информацию выводимую при опции -c. Доступны поля time, calls, name и nothing. По умолчанию используется time;

-w - суммировать время между началом и завершением системного вызова;

-e - позволяет отфильтровать только нужные системные вызовы или события;

-P - отслеживать только системные вызовы, которые касаются указанного пути;

-v - позволяет выводить дополнительную информацию, такую как версии окружения, статистику и так далее;

-b - если указанный системный вызов обнаружен, трассировка прекращается;

-f - отслеживать также дочерние процессы, если они будут созданы;

-ff - если задана опция -o, то для каждого дочернего процесса будет создан отдельный файл с именем имя\_файла.pid.

-I - позволяет блокировать реакцию на нажатия Ctrl+C и Ctrl+Z;

-E - добавляет переменную окружения для запускаемой программы;

-p - указывает pid процесса, к которому следует подключиться;

-u - запустить программу, от имени указанного пользователя.

В своих лабораторных работах я в основном использовал только ключ -f. Но учитывая вывод strace без флагов в 5-7 лабе в виде 2,5 млн строчек, я решил сделать вывод более пригодным для работы с ним:

***strace -f -e trace=\!brk,clock\_nanosleep,mmap,mprotect,munmap -owrite-simple3.log ./manage\_main***

**Код программы**

***laba\_1:***

arsenii@PC-Larcha14:~/Documents/VS\_code\_prog/OSI/laba\_1$ strace -f ./main

execve("./main", ["./main"], 0x7fff59b2b2e8 /\* 56 vars \*/) = 0

brk(NULL) = 0x5578b7997000

arch\_prctl(0x3001 /\* ARCH\_??? \*/, 0x7ffe7698bbd0) = -1 EINVAL (Invalid argument)

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS,

-1, 0) = 0x7f9983f3b000

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=80191, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 80191, PROT\_READ, MAP\_PRIVATE, 3, 0) = 0x7f9983f27000

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\"\233}\305\t\5?\344\337^)\350b\231\21\360"..., 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) =

0x7f9983c00000

mmap(0x7f9983c28000, 1658880, PROT\_READ|PROT\_EXEC,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x28000) = 0x7f9983c28000

mmap(0x7f9983dbd000, 360448, PROT\_READ,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1bd000) = 0x7f9983dbd000

mmap(0x7f9983e15000, 24576, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x214000) = 0x7f9983e15000

mmap(0x7f9983e1b000, 52816, PROT\_READ|PROT\_WRITE

, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7f9983e1b000

close(3) = 0

mmap(NULL, 12288, PROT\_READ|PROT\_WRITE

, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f9983f24000

arch\_prctl(ARCH\_SET\_FS, 0x7f9983f24740) = 0

set\_tid\_address(0x7f9983f24a10) = 13034

set\_robust\_list(0x7f9983f24a20, 24) = 0

rseq(0x7f9983f250e0, 0x20, 0, 0x53053053) = 0

mprotect(0x7f9983e15000, 16384, PROT\_READ) = 0

mprotect(0x5578b6075000, 4096, PROT\_READ) = 0

mprotect(0x7f9983f75000, 8192, PROT\_READ) = 0

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

rlim\_max=RLIM64\_INFINITY}) = 0

munmap(0x7f9983f27000, 80191) = 0

write(1, "Enter filename with file extensi"..., 37Enter filename with file extension: ) = 37

read(0, O.txt

"O.txt\n", 100) = 6

openat(AT\_FDCWD, "O.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**

**13037 attached**

, child\_tidptr=0x7f9983f24a10) = 13037

[pid 13034] close(3 <unfinished ...>

[pid 13037] set\_robust\_list(0x7f9983f24a20, 24 <unfinished ...>

[pid 13034] <... close resumed>) = 0

[pid 13037] <... set\_robust\_list resumed>) = 0

[pid 13034] close(4) = 0

[pid 13037] close(5 <unfinished ...>

[pid 13034] close(7) = 0

[pid 13034] write(5, "O.txt", 5 <unfinished ...>

[pid 13037] <... close resumed>) = 0

[pid 13034] <... write resumed>) = 5

[pid 13034] wait4(-1, <unfinished ...>

[pid 13037] close(6) = 0

**[pid 13037] dup2(4, 0) = 0**

**[pid 13037] dup2(3, 1) = 1**

**[pid 13037] dup2(7, 2) = 2**

**[pid 13037] execve("./child", ["./child"], 0x7ffe7698bda8 /\* 56 vars \*/) = 0**

[pid 13037] brk(NULL) = 0x563157d7c000

[pid 13037] arch\_prctl(0x3001 /\* ARCH\_??? \*/, 0x7ffe04d4f340) = -1 EINVAL (Invalid

argument)

[pid 13037] mmap(NULL, 8192, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7fe7e6001000

[pid 13037] access("/etc/ld.so.preload", R\_OK) = -1 ENOENT (No such file or directory)

[pid 13037] openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC) = 5

[pid 13037] newfstatat(5, "", {st\_mode=S\_IFREG|0644, st\_size=80191, ...},

AT\_EMPTY\_PATH) = 0

[pid 13037] mmap(NULL, 80191, PROT\_READ, MAP\_PRIVATE, 5, 0) = 0x7fe7e5fed000

[pid 13037] close(5) = 0

[pid 13037] openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libc.so.6",

O\_RDONLY|O\_CLOEXEC) = 5

[pid 13037] read(5, "\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

[pid 13037] 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 13037] 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\0"..., 48,

848) = 48

[pid 13037] pread64(5,

"\4\0\0\0\24\0\0\0\3\0\0\0GNU\0\"\233}\305\t\5?\344\337^)\350b\231\21\360"..., 68, 896) = 68

[pid 13037] newfstatat(5, "", {st\_mode=S\_IFREG|0755, st\_size=2216304, ...},

AT\_EMPTY\_PATH) = 0

[pid 13037] 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 13037] mmap(NULL, 2260560, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 5,

0) = 0x7fe7e5c00000

[pid 13037] mmap(0x7fe7e5c28000, 1658880, PROT\_READ|PROT\_EXEC,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 5, 0x28000) = 0x7fe7e5c28000

[pid 13037] mmap(0x7fe7e5dbd000, 360448, PROT\_READ

, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 5, 0x1bd000) = 0x7fe7e5dbd000

[pid 13037] mmap(0x7fe7e5e15000, 24576, PROT\_READ|PROT\_WRITE

, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 5, 0x214000) = 0x7fe7e5e15000

[pid 13037] mmap(0x7fe7e5e1b000, 52816, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7fe7e5e1b000

[pid 13037] close(5) = 0

[pid 13037] mmap(NULL, 12288, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7fe7e5fea000

[pid 13037] arch\_prctl(ARCH\_SET\_FS, 0x7fe7e5fea740) = 0

[pid 13037] set\_tid\_address(0x7fe7e5feaa10) = 13037

[pid 13037] set\_robust\_list(0x7fe7e5feaa20, 24) = 0

[pid 13037] rseq(0x7fe7e5feb0e0, 0x20, 0, 0x53053053) = 0

[pid 13037] mprotect(0x7fe7e5e15000, 16384, PROT\_READ) = 0

[pid 13037] mprotect(0x563156ca0000, 4096, PROT\_READ) = 0

[pid 13037] mprotect(0x7fe7e603b000, 8192, PROT\_READ) = 0

[pid 13037] prlimit64(0, RLIMIT\_STACK, NULL, {rlim\_cur=8192\*1024,

rlim\_max=RLIM64\_INFINITY}) = 0

[pid 13037] munmap(0x7fe7e5fed000, 80191) = 0

[pid 13037] read(0, "O.txt", 100) = 5

[pid 13037] write(1, "O.txt", 5) = 5

[pid 13037] exit\_group(0) = ?

[pid 13037] +++ exited with 0 +++

<... wait4 resumed>NULL, 0, NULL) = 13037

--- SIGCHLD {si\_signo=SIGCHLD, si\_code=CLD\_EXITED, si\_pid=13037, si\_uid=1000,

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

read(6, "", 100) = 0

write(1, "\33[32m\0", 6) = 6

write(1, "Correct filename.", 17Correct filename.) = 17

write(1, "\33[0m\0", 5) = 5

write(1, "\33[32m\0", 6) = 6

write(1, "\n\0", 2

) = 2

write(1, "Program was ended succsessfully!", 32Program was ended succsessfully!) = 32

write(1, "\n\0", 2

) = 2

write(1, "\33[0m\0", 5) = 5

close(5) = 0

close(6) = 0

exit\_group(0) = ?

+++ exited with 0 +++

***laba\_2:***

arsenii@PC-Larcha14:~/Desktop/Unikall/Git\_project/OSI/laba\_2$ strace -f ./lab\_2 **3**

execve("./lab\_2", ["./lab\_2", "**3**"], 0x7ffd0ec883b0 /\* 56 vars \*/) = 0

brk(NULL) = 0x560fec42c000

arch\_prctl(0x3001 /\* ARCH\_??? \*/, 0x7ffd179ce3a0) = -1 EINVAL (Invalid argument)

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1,

0) = 0x7fd0b5971000

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=80547, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 80547, PROT\_READ, MAP\_PRIVATE, 3, 0) = 0x7fd0b595d000

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) =

0x7fd0b5600000

mprotect(0x7fd0b569a000, 1576960, PROT\_NONE) = 0

mmap(0x7fd0b569a000, 1118208, PROT\_READ|PROT\_EXEC,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x9a000) = 0x7fd0b569a000

mmap(0x7fd0b57ab000, 454656, PROT\_READ,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1ab000) = 0x7fd0b57ab000

mmap(0x7fd0b581b000, 57344, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x21a000) = 0x7fd0b581b000

mmap(0x7fd0b5829000, 10432, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7fd0b5829000

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) =

0x7fd0b593d000

mmap(0x7fd0b5940000, 94208, PROT\_READ|PROT\_EXEC,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x3000) = 0x7fd0b5940000

mmap(0x7fd0b5957000, 16384, PROT\_READ,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1a000) = 0x7fd0b5957000

mmap(0x7fd0b595b000, 8192, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1d000) = 0x7fd0b595b000

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) =

0x7fd0b5200000

mmap(0x7fd0b5228000, 1658880, PROT\_READ|PROT\_EXEC,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x28000) = 0x7fd0b5228000

mmap(0x7fd0b53bd000, 360448, PROT\_READ,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1bd000) = 0x7fd0b53bd000

mmap(0x7fd0b5415000, 24576, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x214000) = 0x7fd0b5415000

mmap(0x7fd0b541b000, 52816, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7fd0b541b000

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) =

0x7fd0b5856000

mmap(0x7fd0b5864000, 507904, PROT\_READ|PROT\_EXEC,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xe000) = 0x7fd0b5864000

mmap(0x7fd0b58e0000, 372736, PROT\_READ,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x8a000) = 0x7fd0b58e0000

mmap(0x7fd0b593b000, 8192, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xe4000) = 0x7fd0b593b000

close(3) = 0

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1,

0) = 0x7fd0b5854000

mmap(NULL, 12288, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1,

0) = 0x7fd0b5851000

arch\_prctl(ARCH\_SET\_FS, 0x7fd0b5851740) = 0

set\_tid\_address(0x7fd0b5851a10) = 9534

set\_robust\_list(0x7fd0b5851a20, 24) = 0

rseq(0x7fd0b58520e0, 0x20, 0, 0x53053053) = 0

mprotect(0x7fd0b5415000, 16384, PROT\_READ) = 0

mprotect(0x7fd0b593b000, 4096, PROT\_READ) = 0

mprotect(0x7fd0b595b000, 4096, PROT\_READ) = 0

mprotect(0x7fd0b581b000, 45056, PROT\_READ) = 0

mprotect(0x560feac72000, 4096, PROT\_READ) = 0

mprotect(0x7fd0b59ab000, 8192, PROT\_READ) = 0

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

munmap(0x7fd0b595d000, 80547) = 0

getrandom("\x18\xe8\x31\x17\x4c\xd8\x2a\x92", 8, GRND\_NONBLOCK) = 8

brk(NULL) = 0x560fec42c000

brk(0x560fec44d000) = 0x560fec44d000

futex(0x7fd0b582977c, FUTEX\_WAKE\_PRIVATE, 2147483647) = 0

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

write(1, "Input matrix size\n", 18Input matrix size

) = 18

write(1, "n=", 2n=) = 2

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

read(0, 5

"5\n", 1024) = 2

write(1, "\n", 1

) = 1

write(1, "m=", 2m=) = 2

read(0, 7

"7\n", 1024) = 2

write(1, "\n", 1

) = 1

write(1, "Input count of filter overlay=", 30Input count of filter overlay=) = 30

read(0, **3**

"3\n", 1024) = 2

write(1, "\nInput filter matrix size k\*k (i"..., 65

Input filter matrix size k\*k (it should be odd number, and k>1)

) = 65

write(1, "k=", 2k=) = 2

read(0, 3

"3\n", 1024) = 2

write(1, "Begin mass:\n", 12Begin mass:

) = 12

write(1, "Full mass:\n", 11Full mass:

) = 11

write(1, " 0 0 0 0 0 0 0 0 "..., 37 0 0 0 0 0 0 0 0 0

) = 37

write(1, " 0 214 125 166 199 228 69 107 "..., 37 0 214 125 166 199 228 69 107 0

) = 37

write(1, " 0 223 43 39 27 204 160 21 "..., 37 0 223 43 39 27 204 160 21 0

) = 37

write(1, " 0 24 154 32 8 251 219 66 "..., 37 0 24 154 32 8 251 219 66 0

) = 37

write(1, " 0 76 181 153 37 192 233 56 "..., 37 0 76 181 153 37 192 233 56 0

) = 37

write(1, " 0 155 181 103 43 215 13 12 "..., 37 0 155 181 103 43 215 13 12 0

) = 37

write(1, " 0 0 0 0 0 0 0 0 "..., 37 0 0 0 0 0 0 0 0 0

) = 37

write(1, "\n", 1

) = 1

write(1, "Correct mass:\n", 14Correct mass:

) = 14

write(1, "214 125 166 199 228 69 107 \n", 29214 125 166 199 228 69 107

) = 29

write(1, "223 43 39 27 204 160 21 \n", 29223 43 39 27 204 160 21

) = 29

write(1, " 24 154 32 8 251 219 66 \n", 29 24 154 32 8 251 219 66

) = 29

write(1, " 76 181 153 37 192 233 56 \n", 29 76 181 153 37 192 233 56

) = 29

write(1, "155 181 103 43 215 13 12 \n", 29155 181 103 43 215 13 12

) = 29

rt\_sigaction(SIGRT\_1, {sa\_handler=0x7fd0b5291870, sa\_mask=[],

sa\_flags=SA\_RESTORER|SA\_ONSTACK|SA\_RESTART|SA\_SIGINFO,

sa\_restorer=0x7fd0b5242520}, 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) = 0x7fd0b49ff000

mprotect(0x7fd0b4a00000, 8388608, PROT\_READ|PROT\_WRITE) = 0

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

**clone3**({flags=CLONE\_VM|CLONE\_FS|CLONE\_FILES|CLONE\_SIGHAND|CLONE\_THRE

AD|CLONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID|CLONE\_CHILD\_CLE

ARTID,

child\_tid=0x7fd0b51ff910, parent\_tid=0x7fd0b51ff910, exit\_signal=0, stack=0x7fd0b49ff000,

stack\_size=0x7fff00, tls=0x7fd0b51ff640} => {parent\_tid=[9543]}, 88) = 9543

strace: Process 9543 attached

[pid 9534] rt\_sigprocmask(SIG\_SETMASK, [], NULL, 8) = 0

[pid 9543] rseq(0x7fd0b51fffe0, 0x20, 0, 0x53053053 <unfinished ...>

[pid 9534] mmap(NULL, 8392704, PROT\_NONE,

MAP\_PRIVATE|MAP\_ANONYMOUS|MAP\_STACK, -1, 0 <unfinished ...>

[pid 9543] <... rseq resumed>) = 0

[pid 9534] <... mmap resumed>) = 0x7fd0b41fe000

[pid 9543] set\_robust\_list(0x7fd0b51ff920, 24 <unfinished ...>

[pid 9534] mprotect(0x7fd0b41ff000, 8388608, PROT\_READ|PROT\_WRITE <unfinished ...>

[pid 9543] <... set\_robust\_list resumed>) = 0

[pid 9534] <... mprotect resumed>) = 0

[pid 9543] rt\_sigprocmask(SIG\_SETMASK, [], <unfinished ...>

[pid 9534] rt\_sigprocmask(SIG\_BLOCK, ~[], <unfinished ...>

[pid 9543] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 9534] <... rt\_sigprocmask resumed>[], 8) = 0

[pid 9534]

**clone3**({flags=CLONE\_VM|CLONE\_FS|CLONE\_FILES|CLONE\_SIGHAND|CLONE\_THREAD|CL

ONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID|CLONE\_CHILD\_CLEARTID,

child\_tid=0x7fd0b49fe910, parent\_tid=0x7fd0b49fe910, exit\_signal=0, stack=0x7fd0b41fe000,

stack\_size=0x7fff00, tls=0x7fd0b49fe640} <unfinished ...>

[pid 9543] mmap(NULL, 134217728, PROT\_NONE,

MAP\_PRIVATE|MAP\_ANONYMOUS|MAP\_NORESERVE, -1, 0strace: Process 9544 attached

) = 0x7fd0ac1fe000

[pid 9534] <... clone3 resumed> => {parent\_tid=[9544]}, 88) = 9544

[pid 9544] rseq(0x7fd0b49fefe0, 0x20, 0, 0x53053053 <unfinished ...>

[pid 9543] munmap(0x7fd0ac1fe000, 65019904 <unfinished ...>

[pid 9534] rt\_sigprocmask(SIG\_SETMASK, [], <unfinished ...>

[pid 9544] <... rseq resumed>) = 0

[pid 9534] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 9543] <... munmap resumed>) = 0

[pid 9534] mmap(NULL, 8392704, PROT\_NONE,

MAP\_PRIVATE|MAP\_ANONYMOUS|MAP\_STACK, -1, 0 <unfinished ...>

[pid 9544] set\_robust\_list(0x7fd0b49fe920, 24 <unfinished ...>

[pid 9534] <... mmap resumed>) = 0x7fd0af7ff000

[pid 9543] munmap(0x7fd0b4000000, 2088960 <unfinished ...>

[pid 9534] mprotect(0x7fd0af800000, 8388608, PROT\_READ|PROT\_WRITE) = 0

[pid 9544] <... set\_robust\_list resumed>) = 0

[pid 9543] <... munmap resumed>) = 0

[pid 9534] rt\_sigprocmask(SIG\_BLOCK, ~[], <unfinished ...>

[pid 9543] mprotect(0x7fd0b0000000, 135168, PROT\_READ|PROT\_WRITE <unfinished ...>

[pid 9534] <... rt\_sigprocmask resumed>[], 8) = 0

[pid 9544] rt\_sigprocmask(SIG\_SETMASK, [], <unfinished ...>

[pid 9543] <... mprotect resumed>) = 0

[pid 9534]

**clone3**({flags=CLONE\_VM|CLONE\_FS|CLONE\_FILES|CLONE\_SIGHAND|CLONE\_THREAD|CL

ONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID|CLONE\_CHILD\_CLEARTID,

child\_tid=0x7fd0affff910, parent\_tid=0x7fd0affff910, exit\_signal=0, stack=0x7fd0af7ff000,

stack\_size=0x7fff00, tls=0x7fd0affff640}strace: Process 9545 attached

<unfinished ...>

[pid 9544] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 9534] <... clone3 resumed> => {parent\_tid=[9545]}, 88) = 9545

[pid 9545] rseq(0x7fd0afffffe0, 0x20, 0, 0x53053053 <unfinished ...>

[pid 9543] rt\_sigprocmask(SIG\_BLOCK, ~[RT\_1], <unfinished ...>

[pid 9534] rt\_sigprocmask(SIG\_SETMASK, [], <unfinished ...>

[pid 9545] <... rseq resumed>) = 0

[pid 9534] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 9543] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 9534] futex(0x7fd0b51ff910, FUTEX\_WAIT\_BITSET|FUTEX\_CLOCK\_REALTIME, 9543,

NULL, FUTEX\_BITSET\_MATCH\_ANY <unfinished ...>

[pid 9545] set\_robust\_list(0x7fd0affff920, 24 <unfinished ...>

[pid 9544] rt\_sigprocmask(SIG\_BLOCK, ~[RT\_1], <unfinished ...>

[pid 9545] <... set\_robust\_list resumed>) = 0

[pid 9543] madvise(0x7fd0b49ff000, 8368128, MADV\_DONTNEED <unfinished ...>

[pid 9545] rt\_sigprocmask(SIG\_SETMASK, [], <unfinished ...>

[pid 9544] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 9545] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 9543] <... madvise resumed>) = 0

[pid 9544] madvise(0x7fd0b41fe000, 8368128, MADV\_DONTNEED <unfinished ...>

[pid 9543] exit(0 <unfinished ...>

[pid 9544] <... madvise resumed>) = 0

[pid 9543] <... exit resumed>) = ?

[pid 9544] exit(0 <unfinished ...>

[pid 9545] rt\_sigprocmask(SIG\_BLOCK, ~[RT\_1], <unfinished ...>

[pid 9534] <... futex resumed>) = 0

[pid 9544] <... exit resumed>) = ?

[pid 9543] +++ exited with 0 +++

[pid 9545] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 9534] futex(0x7fd0b49fe910, FUTEX\_WAIT\_BITSET|FUTEX\_CLOCK\_REALTIME, 9544,

NULL, FUTEX\_BITSET\_MATCH\_ANY <unfinished ...>

[pid 9545] madvise(0x7fd0af7ff000, 8368128, MADV\_DONTNEED <unfinished ...>

[pid 9544] +++ exited with 0 +++

[pid 9534] <... futex resumed>) = -1 EAGAIN (Resource temporarily unavailable)

[pid 9545] <... madvise resumed>) = 0

[pid 9534] futex(0x7fd0affff910, FUTEX\_WAIT\_BITSET|FUTEX\_CLOCK\_REALTIME, 9545,

NULL, FUTEX\_BITSET\_MATCH\_ANY <unfinished ...>

[pid 9545] exit(0) = ?

[pid 9534] <... futex resumed>) = 0

[pid 9545] +++ exited with 0 +++

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

**clone3**({flags=CLONE\_VM|CLONE\_FS|CLONE\_FILES|CLONE\_SIGHAND|CLONE\_THRE

AD|CLONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID|CLONE\_CHILD\_CLE

ARTID, child\_tid=0x7fd0affff910, parent\_tid=0x7fd0affff910, exit\_signal=0,

stack=0x7fd0af7ff000, stack\_size=0x7fff00, tls=0x7fd0affff640}strace: Process 9546 attached

=> {parent\_tid=[9546]}, 88) = 9546

[pid 9546] rseq(0x7fd0afffffe0, 0x20, 0, 0x53053053 <unfinished ...>

[pid 9534] rt\_sigprocmask(SIG\_SETMASK, [], <unfinished ...>

[pid 9546] <... rseq resumed>) = 0

[pid 9534] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 9546] set\_robust\_list(0x7fd0affff920, 24 <unfinished ...>

[pid 9534] rt\_sigprocmask(SIG\_BLOCK, ~[], <unfinished ...>

[pid 9546] <... set\_robust\_list resumed>) = 0

[pid 9534] <... rt\_sigprocmask resumed>[], 8) = 0

[pid 9546] rt\_sigprocmask(SIG\_SETMASK, [], <unfinished ...>

**[**pid 9534]

**clone3**({flags=CLONE\_VM|CLONE\_FS|CLONE\_FILES|CLONE\_SIGHAND|CLONE\_THREAD|CL

ONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID|CLONE\_CHILD\_CLEARTID,

child\_tid=0x7fd0b49fe910, parent\_tid=0x7fd0b49fe910, exit\_signal=0, stack=0x7fd0b41fe000,

stack\_size=0x7fff00, tls=0x7fd0b49fe640} <unfinished ...>

[pid 9546] <... rt\_sigprocmask resumed>NULL, 8) = 0

strace: Process 9547 attached

[pid 9534] <... clone3 resumed> => {parent\_tid=[9547]}, 88) = 9547

[pid 9547] rseq(0x7fd0b49fefe0, 0x20, 0, 0x53053053 <unfinished ...>

[pid 9534] rt\_sigprocmask(SIG\_SETMASK, [], <unfinished ...>

[pid 9546] rt\_sigprocmask(SIG\_BLOCK, ~[RT\_1], <unfinished ...>

[pid 9534] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 9547] <... rseq resumed>) = 0

[pid 9534] rt\_sigprocmask(SIG\_BLOCK, ~[], <unfinished ...>

[pid 9546] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 9534] <... rt\_sigprocmask resumed>[], 8) = 0

[pid 9547] set\_robust\_list(0x7fd0b49fe920, 24 <unfinished ...>

[pid 9534]

**clone3**({flags=CLONE\_VM|CLONE\_FS|CLONE\_FILES|CLONE\_SIGHAND|CLONE\_THREAD|CL

ONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID|CLONE\_CHILD\_CLEARTID,

child\_tid=0x7fd0b51ff910, parent\_tid=0x7fd0b51ff910, exit\_signal=0, stack=0x7fd0b49ff000,

stack\_size=0x7fff00, tls=0x7fd0b51ff640} <unfinished ...>

[pid 9546] madvise(0x7fd0af7ff000, 8368128, MADV\_DONTNEED <unfinished ...>

[pid 9547] <... set\_robust\_list resumed>) = 0

strace: Process 9548 attached

[pid 9546] <... madvise resumed>) = 0

[pid 9547] rt\_sigprocmask(SIG\_SETMASK, [], <unfinished ...>

[pid 9534] <... clone3 resumed> => {parent\_tid=[9548]}, 88) = 9548

[pid 9548] rseq(0x7fd0b51fffe0, 0x20, 0, 0x53053053 <unfinished ...>

[pid 9546] exit(0 <unfinished ...>

[pid 9534] rt\_sigprocmask(SIG\_SETMASK, [], <unfinished ...>

[pid 9548] <... rseq resumed>) = 0

[pid 9547] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 9534] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 9548] set\_robust\_list(0x7fd0b51ff920, 24 <unfinished ...>

[pid 9546] <... exit resumed>) = ?

[pid 9534] futex(0x7fd0affff910, FUTEX\_WAIT\_BITSET|FUTEX\_CLOCK\_REALTIME, 9546,

NULL, FUTEX\_BITSET\_MATCH\_ANY <unfinished ...>

[pid 9548] <... set\_robust\_list resumed>) = 0

[pid 9534] <... futex resumed>) = -1 EAGAIN (Resource temporarily unavailable)

[pid 9546] +++ exited with 0 +++

[pid 9534] futex(0x7fd0b49fe910, FUTEX\_WAIT\_BITSET|FUTEX\_CLOCK\_REALTIME, 9547,

NULL, FUTEX\_BITSET\_MATCH\_ANY <unfinished ...>

[pid 9548] rt\_sigprocmask(SIG\_SETMASK, [], <unfinished ...>

[pid 9547] rt\_sigprocmask(SIG\_BLOCK, ~[RT\_1], <unfinished ...>

[pid 9548] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 9547] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 9547] madvise(0x7fd0b41fe000, 8368128, MADV\_DONTNEED) = 0

[pid 9548] rt\_sigprocmask(SIG\_BLOCK, ~[RT\_1], <unfinished ...>

[pid 9547] exit(0 <unfinished ...>

[pid 9548] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 9547] <... exit resumed>) = ?

[pid 9548] madvise(0x7fd0b49ff000, 8368128, MADV\_DONTNEED <unfinished ...>

[pid 9534] <... futex resumed>) = 0

[pid 9548] <... madvise resumed>) = 0

[pid 9547] +++ exited with 0 +++

[pid 9534] futex(0x7fd0b51ff910, FUTEX\_WAIT\_BITSET|FUTEX\_CLOCK\_REALTIME, 9548,

NULL, FUTEX\_BITSET\_MATCH\_ANY <unfinished ...>

[pid 9548] exit(0) = ?

[pid 9534] <... futex resumed>) = 0

[pid 9548] +++ exited with 0 +++

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

clone3({flags=CLONE\_VM|CLONE\_FS|CLONE\_FILES|CLONE\_SIGHAND|CLONE\_THRE

AD|CLONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID|CLONE\_CHILD\_CLE

ARTID, child\_tid=0x7fd0b51ff910, parent\_tid=0x7fd0b51ff910, exit\_signal=0,

stack=0x7fd0b49ff000, stack\_size=0x7fff00, tls=0x7fd0b51ff640}strace: Process 9549 attached

=> {parent\_tid=[9549]}, 88) = 9549

[pid 9549] rseq(0x7fd0b51fffe0, 0x20, 0, 0x53053053 <unfinished ...>

[pid 9534] rt\_sigprocmask(SIG\_SETMASK, [], <unfinished ...>

[pid 9549] <... rseq resumed>) = 0

[pid 9534] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 9549] set\_robust\_list(0x7fd0b51ff920, 24 <unfinished ...>

[pid 9534] rt\_sigprocmask(SIG\_BLOCK, ~[], <unfinished ...>

[pid 9549] <... set\_robust\_list resumed>) = 0

[pid 9534] <... rt\_sigprocmask resumed>[], 8) = 0

[pid 9549] rt\_sigprocmask(SIG\_SETMASK, [], <unfinished ...>

[pid 9534]

**clone3**({flags=CLONE\_VM|CLONE\_FS|CLONE\_FILES|CLONE\_SIGHAND|CLONE\_THREAD|CL

ONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID|CLONE\_CHILD\_CLEARTID,

child\_tid=0x7fd0b49fe910, parent\_tid=0x7fd0b49fe910, exit\_signal=0, stack=0x7fd0b41fe000,

stack\_size=0x7fff00, tls=0x7fd0b49fe640} <unfinished ...>

[pid 9549] <... rt\_sigprocmask resumed>NULL, 8) = 0

strace: Process 9550 attached

[pid 9534] <... clone3 resumed> => {parent\_tid=[9550]}, 88) = 9550

[pid 9549] rt\_sigprocmask(SIG\_BLOCK, ~[RT\_1], <unfinished ...>

[pid 9534] rt\_sigprocmask(SIG\_SETMASK, [], <unfinished ...>

[pid 9549] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 9534] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 9550] rseq(0x7fd0b49fefe0, 0x20, 0, 0x53053053 <unfinished ...>

[pid 9534] rt\_sigprocmask(SIG\_BLOCK, ~[], <unfinished ...>

[pid 9549] madvise(0x7fd0b49ff000, 8368128, MADV\_DONTNEED <unfinished ...>

[pid 9534] <... rt\_sigprocmask resumed>[], 8) = 0

[pid 9550] <... rseq resumed>) = 0

[pid 9534]

**clone3**({flags=CLONE\_VM|CLONE\_FS|CLONE\_FILES|CLONE\_SIGHAND|CLONE\_THREAD|CL

ONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID|CLONE\_CHILD\_CLEARTID,

child\_tid=0x7fd0affff910, parent\_tid=0x7fd0affff910, exit\_signal=0, stack=0x7fd0af7ff000,

stack\_size=0x7fff00, tls=0x7fd0affff640} <unfinished ...>

[pid 9549] <... madvise resumed>) = 0

[pid 9550] set\_robust\_list(0x7fd0b49fe920, 24 <unfinished ...>

[pid 9549] exit(0strace: Process 9551 attached

<unfinished ...>

[pid 9550] <... set\_robust\_list resumed>) = 0

[pid 9534] <... clone3 resumed> => {parent\_tid=[9551]}, 88) = 9551

[pid 9551] rseq(0x7fd0afffffe0, 0x20, 0, 0x53053053 <unfinished ...>

[pid 9549] <... exit resumed>) = ?

[pid 9534] rt\_sigprocmask(SIG\_SETMASK, [], <unfinished ...>

[pid 9551] <... rseq resumed>) = 0

[pid 9550] rt\_sigprocmask(SIG\_SETMASK, [], <unfinished ...>

[pid 9534] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 9551] set\_robust\_list(0x7fd0affff920, 24 <unfinished ...>

[pid 9549] +++ exited with 0 +++

[pid 9550] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 9534] futex(0x7fd0b49fe910, FUTEX\_WAIT\_BITSET|FUTEX\_CLOCK\_REALTIME, 9550,

NULL, FUTEX\_BITSET\_MATCH\_ANY <unfinished ...>

[pid 9551] <... set\_robust\_list resumed>) = 0

[pid 9551] rt\_sigprocmask(SIG\_SETMASK, [], NULL, 8) = 0

[pid 9550] rt\_sigprocmask(SIG\_BLOCK, ~[RT\_1], NULL, 8) = 0

[pid 9550] madvise(0x7fd0b41fe000, 8368128, MADV\_DONTNEED <unfinished ...>

[pid 9551] rt\_sigprocmask(SIG\_BLOCK, ~[RT\_1], <unfinished ...>

[pid 9550] <... madvise resumed>) = 0

[pid 9551] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 9550] exit(0 <unfinished ...>

[pid 9551] madvise(0x7fd0af7ff000, 8368128, MADV\_DONTNEED <unfinished ...>

[pid 9550] <... exit resumed>) = ?

[pid 9551] <... madvise resumed>) = 0

[pid 9534] <... futex resumed>) = 0

[pid 9550] +++ exited with 0 +++

[pid 9551] exit(0 <unfinished ...>

[pid 9534] futex(0x7fd0affff910, FUTEX\_WAIT\_BITSET|FUTEX\_CLOCK\_REALTIME, 9551,

NULL, FUTEX\_BITSET\_MATCH\_ANY <unfinished ...>

[pid 9551] <... exit resumed>) = ?

[pid 9534] <... futex resumed>) = 0

[pid 9551] +++ exited with 0 +++

write(1, "\n", 1

) = 1

write(1, "output\_mass: \n", 14output\_mass:

) = 14

write(1, "Full mass:\n", 11Full mass:

) = 11

write(1, " 0 0 0 0 0 0 0 0 "..., 37 0 0 0 0 0 0 0 0 0

) = 37

write(1, " 0 0 39 39 39 43 56 0 "..., 37 0 0 39 39 39 43 56 0 0

) = 37

write(1, " 0 39 43 43 69 69 69 56 "..., 37 0 39 43 43 69 69 69 56 0

) = 37

write(1, " 0 43 43 76 103 103 69 56 "..., 37 0 43 43 76 103 103 69 56 0

) = 37

write(1, " 0 43 43 76 76 56 56 13 "..., 37 0 43 43 76 76 56 56 13 0

) = 37

write(1, " 0 0 43 43 43 37 13 0 "..., 37 0 0 43 43 43 37 13 0 0

) = 37

write(1, " 0 0 0 0 0 0 0 0 "..., 37 0 0 0 0 0 0 0 0 0

) = 37

write(1, "\n", 1

) = 1

write(1, "Correct mass:\n", 14Correct mass:

) = 14

write(1, " 0 39 39 39 43 56 0 \n", 29 0 39 39 39 43 56 0

) = 29

write(1, " 39 43 43 69 69 69 56 \n", 29 39 43 43 69 69 69 56

) = 29

write(1, " 43 43 76 103 103 69 56 \n", 29 43 43 76 103 103 69 56

) = 29

write(1, " 43 43 76 76 56 56 13 \n", 29 43 43 76 76 56 56 13

) = 29

write(1, " 0 43 43 43 37 13 0 \n", 29 0 43 43 43 37 13 0

) = 29

write(1, "\n", 1

) = 1

write(1, "Time: 0.00384272\n", 17Time: 0.00384272

) = 17

lseek(0, -1, SEEK\_CUR) = -1 ESPIPE (Illegal seek)

exit\_group(0) = ?

+++ exited with 0 +++

***laba\_3:***

arsenii@PC-Larcha14:~/Documents/VS\_code\_prog/OSI/laba\_3$ strace -f ./main

execve("./main", ["./main"], 0x7ffd6778d858 /\* 56 vars \*/) = 0

brk(NULL) = 0x561d39c65000

arch\_prctl(0x3001 /\* ARCH\_??? \*/, 0x7ffc91fb1260) = -1 EINVAL (Invalid argument)

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1,

0) = 0x7fdf5c4c6000

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=80547, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 80547, PROT\_READ, MAP\_PRIVATE, 3, 0) = 0x7fdf5c4b2000

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) =

0x7fdf5c200000

mmap(0x7fdf5c228000, 1658880, PROT\_READ|PROT\_EXEC,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x28000) = 0x7fdf5c228000

mmap(0x7fdf5c3bd000, 360448, PROT\_READ,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1bd000) = 0x7fdf5c3bd000

mmap(0x7fdf5c415000, 24576, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x214000) = 0x7fdf5c415000

mmap(0x7fdf5c41b000, 52816, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7fdf5c41b000

close(3) = 0

mmap(NULL, 12288, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1,

0) = 0x7fdf5c4af000

arch\_prctl(ARCH\_SET\_FS, 0x7fdf5c4af740) = 0

set\_tid\_address(0x7fdf5c4afa10) = 30563

set\_robust\_list(0x7fdf5c4afa20, 24) = 0

rseq(0x7fdf5c4b00e0, 0x20, 0, 0x53053053) = 0

mprotect(0x7fdf5c415000, 16384, PROT\_READ) = 0

mprotect(0x561d37e7f000, 4096, PROT\_READ) = 0

mprotect(0x7fdf5c500000, 8192, PROT\_READ) = 0

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

munmap(0x7fdf5c4b2000, 80547) = 0

write(1, "Enter filename with file extensi"..., 37Enter filename with file extension: ) = 37

getrandom("\x87\x12\x50\xb6\xf6\x53\x12\xc5", 8, GRND\_NONBLOCK) = 8

brk(NULL) = 0x561d39c65000

brk(0x561d39c86000) = 0x561d39c86000

read(0, 2.txt

"2", 1) = 1

read(0, ".", 1) = 1

read(0, "t", 1) = 1

read(0, "x", 1) = 1

read(0, "t", 1) = 1

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

openat(AT\_FDCWD, "2.txt", O\_WRONLY|O\_CREAT, 0777) = 3

getpid() = 30563

clone(child\_stack=NULL,

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

child\_tidptr=0x7fdf5c4afa10) = 30564

strace: Process 30564 attached

[pid 30563] close(3) = 0

[pid 30563] write(1, "Enter something you want: \n\0", 28Enter something you want:

) = 28

[pid 30563] openat(AT\_FDCWD, "/dev/shm/mappa1",

O\_RDWR|O\_CREAT|O\_NOFOLLOW|O\_CLOEXEC, 0600 <unfinished ...>

[pid 30564] set\_robust\_list(0x7fdf5c4afa20, 24 <unfinished ...>

[pid 30563] <... openat resumed>) = 3

[pid 30563] **ftruncate**(3, 500) = 0

[pid 30564] <... set\_robust\_list resumed>) = 0

[pid 30563] **mmap**(NULL, 500, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 3, 0) =

0x7fdf5c4ff000

[pid 30563] read(0, <unfinished ...>

[pid 30564] dup2(3, 1) = 1

[pid 30564] execve("./child", ["./child", "30563"], 0x7ffc91fb1438 /\* 56 vars \*/) = 0

[pid 30564] brk(NULL) = 0x55a15aec8000

[pid 30564] arch\_prctl(0x3001 /\* ARCH\_??? \*/, 0x7fff265e10d0) = -1 EINVAL (Invalid

argument)

[pid 30564] mmap(NULL, 8192, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f03c97d4000

[pid 30564] access("/etc/ld.so.preload", R\_OK) = -1 ENOENT (No such file or directory)

[pid 30564] openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC) = 4

[pid 30564] newfstatat(4, "", {st\_mode=S\_IFREG|0644, st\_size=80547, ...}, AT\_EMPTY\_PATH) = 0

[pid 30564] mmap(NULL, 80547, PROT\_READ, MAP\_PRIVATE, 4, 0) = 0x7f03c97c0000

[pid 30564] close(4) = 0

[pid 30564] openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libc.so.6", O\_RDONLY|O\_CLOEXEC) = 4

[pid 30564] read(4, "\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

[pid 30564] pread64(4, "\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 30564] pread64(4, "\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

[pid 30564] pread64(4, "\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

[pid 30564] newfstatat(4, "", {st\_mode=S\_IFREG|0755, st\_size=2216304, ...},

AT\_EMPTY\_PATH) = 0

[pid 30564] pread64(4, "\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 30564] mmap(NULL, 2260560, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 4, 0) =

0x7f03c9400000

[pid 30564] mmap(0x7f03c9428000, 1658880, PROT\_READ|PROT\_EXEC,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 4, 0x28000) = 0x7f03c9428000

[pid 30564] mmap(0x7f03c95bd000, 360448, PROT\_READ,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 4, 0x1bd000) = 0x7f03c95bd000

[pid 30564] mmap(0x7f03c9615000, 24576, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 4, 0x214000) = 0x7f03c9615000

[pid 30564] mmap(0x7f03c961b000, 52816, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7f03c961b000

[pid 30564] close(4) = 0

[pid 30564] mmap(NULL, 12288, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f03c97bd000

[pid 30564] arch\_prctl(ARCH\_SET\_FS, 0x7f03c97bd740) = 0

[pid 30564] set\_tid\_address(0x7f03c97bda10) = 30564

[pid 30564] set\_robust\_list(0x7f03c97bda20, 24) = 0

[pid 30564] rseq(0x7f03c97be0e0, 0x20, 0, 0x53053053) = 0

[pid 30564] mprotect(0x7f03c9615000, 16384, PROT\_READ) = 0

[pid 30564] mprotect(0x55a15ad18000, 4096, PROT\_READ) = 0

[pid 30564] mprotect(0x7f03c980e000, 8192, PROT\_READ) = 0

[pid 30564] prlimit64(0, RLIMIT\_STACK, NULL, {rlim\_cur=8192\*1024,

rlim\_max=RLIM64\_INFINITY}) = 0

[pid 30564] munmap(0x7f03c97c0000, 80547) = 0

[pid 30564] rt\_sigaction(SIGUSR1, {sa\_handler=0x55a15ad15389, sa\_mask=[],

sa\_flags=SA\_RESTORER|SA\_INTERRUPT|SA\_NODEFER|SA\_RESETHAND|0xffffffff00000000,

sa\_restorer=0x7f03c9442520}, {sa\_handler=SIG\_DFL, sa\_mask=[], sa\_flags=0}, 8) = 0

[pid 30563] <... read resumed>0x7ffc91fb1277, 1) = ? ERESTARTSYS (To be restarted if

SA\_RESTART is set)

[pid 30564] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] read(0, 0x7ffc91fb1277, 1) = ? ERESTARTSYS (To be restarted if SA\_RESTART is set)

[pid 30564] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] read(0, <unfinished ...>

[pid 30564] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] <... read resumed>0x7ffc91fb1277, 1) = ? ERESTARTSYS (To be restarted if

SA\_RESTART is set)

[pid 30563] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] read(0, <unfinished ...>

[pid 30564] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] <... read resumed>0x7ffc91fb1277, 1) = ? ERESTARTSYS (To be restarted if

SA\_RESTART is set)

[pid 30563] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] read(0, <unfinished ...>

[pid 30564] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] <... read resumed>0x7ffc91fb1277, 1) = ? ERESTARTSYS (To be restarted if

SA\_RESTART is set)

[pid 30563] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] read(0, <unfinished ...>

[pid 30564] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] <... read resumed>0x7ffc91fb1277, 1) = ? ERESTARTSYS (To be restarted if

SA\_RESTART is set)

[pid 30563] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] read(0, <unfinished ...>

[pid 30564] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] <... read resumed>0x7ffc91fb1277, 1) = ? ERESTARTSYS (To be restarted if

SA\_RESTART is set)

[pid 30563] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] read(0, <unfinished ...>

[pid 30564] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] <... read resumed>0x7ffc91fb1277, 1) = ? ERESTARTSYS (To be restarted if

SA\_RESTART is set)

[pid 30563] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] read(0, <unfinished ...>

[pid 30564] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] <... read resumed>0x7ffc91fb1277, 1) = ? ERESTARTSYS (To be restarted if

SA\_RESTART is set)

[pid 30563] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] read(0, <unfinished ...>

[pid 30564] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] <... read resumed>0x7ffc91fb1277, 1) = ? ERESTARTSYS (To be restarted if

SA\_RESTART is set)

[pid 30563] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] read(0, <unfinished ...>

[pid 30564] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] <... read resumed>0x7ffc91fb1277, 1) = ? ERESTARTSYS (To be restarted if

SA\_RESTART is set)

[pid 30563] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] read(0, <unfinished ...>

[pid 30564] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] <... read resumed>0x7ffc91fb1277, 1) = ? ERESTARTSYS (To be restarted if

SA\_RESTART is set)

[pid 30563] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] read(0, <unfinished ...>

[pid 30564] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] <... read resumed>0x7ffc91fb1277, 1) = ? ERESTARTSYS (To be restarted if

SA\_RESTART is set)

[pid 30563] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] read(0, <unfinished ...>

[pid 30564] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] <... read resumed>0x7ffc91fb1277, 1) = ? ERESTARTSYS (To be restarted if

SA\_RESTART is set)

[pid 30563] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] read(0, <unfinished ...>

[pid 30564] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] <... read resumed>0x7ffc91fb1277, 1) = ? ERESTARTSYS (To be restarted if

SA\_RESTART is set)

[pid 30563] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] read(0, <unfinished ...>

[pid 30564] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] <... read resumed>0x7ffc91fb1277, 1) = ? ERESTARTSYS (To be restarted if

SA\_RESTART is set)

[pid 30563] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] read(0, <unfinished ...>

[pid 30564] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] <... read resumed>0x7ffc91fb1277, 1) = ? ERESTARTSYS (To be restarted if

SA\_RESTART is set)

[pid 30563] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] read(0, 0x7ffc91fb1277, 1) = ? ERESTARTSYS (To be restarted if SA\_RESTART is set)

[pid 30564] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] read(0, <unfinished ...>

[pid 30564] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] <... read resumed>0x7ffc91fb1277, 1) = ? ERESTARTSYS (To be restarted if SA\_RESTART is set)

[pid 30563] --- SIGWINCH {si\_signo=SIGWINCH, si\_code=SI\_KERNEL} ---

[pid 30563] read(0, Hi

"H", 1) = 1

[pid 30563] read(0, "i", 1) = 1

[pid 30563] read(0, "\n", 1) = 1

[pid 30563] munmap(0x7fdf5c4ff000, 500) = 0

[pid 30563] close(3) = 0

[pid 30563] kill(30564, SIGUSR1) = 0

[pid 30564] --- SIGUSR1 {si\_signo=SIGUSR1, si\_code=SI\_USER, si\_pid=30563, si\_uid=1000} ---

[pid 30563] rt\_sigaction(SIGUSR1, {sa\_handler=0x561d37e7c429, sa\_mask=[],

sa\_flags=SA\_RESTORER|SA\_INTERRUPT|SA\_NODEFER|SA\_RESETHAND|0xffffffff00000000,

sa\_restorer=0x7fdf5c242520}, {sa\_handler=SIG\_DFL, sa\_mask=[], sa\_flags=0}, 8) = 0

[pid 30564] rt\_sigreturn({mask=[]}) = 0

[pid 30564] openat(AT\_FDCWD, "/dev/shm/mappa1",

O\_RDWR|O\_CREAT|O\_NOFOLLOW|O\_CLOEXEC, 0600) = 4

[pid 30564] **ftruncate**(4, 500) = 0

[pid 30564] **mmap**(NULL, 500, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 4, 0) =

0x7f03c980d000

[pid 30564] getrandom("\x81\xfd\x9f\xdd\x47\x1f\xf9\x9f", 8, GRND\_NONBLOCK) = 8

[pid 30564] brk(NULL) = 0x55a15aec8000

[pid 30564] brk(0x55a15aee9000) = 0x55a15aee9000

[pid 30564] **munmap**(0x7f03c980d000, 500) = 0

[pid 30564] close(4) = 0

[pid 30564] write(1, "Hi\n", 3) = 3

[pid 30564] openat(AT\_FDCWD, "/dev/shm/mappa2",

O\_RDWR|O\_CREAT|O\_NOFOLLOW|O\_CLOEXEC, 0600) = 4

[pid 30564] **ftruncate**(4, 1) = 0

[pid 30564] **mmap**(NULL, 1, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 4, 0) =

0x7f03c980d000

[pid 30564] **munmap**(0x7f03c980d000, 1) = 0

[pid 30564] close(4) = 0

[pid 30564] kill(30563, SIGUSR1 <unfinished ...>

[pid 30563] --- SIGUSR1 {si\_signo=SIGUSR1, si\_code=SI\_USER, si\_pid=30564, si\_uid=1000} ---

[pid 30564] <... kill resumed>) = 0

[pid 30563] rt\_sigreturn({mask=[]} <unfinished ...>

[pid 30564] rt\_sigaction(SIGUSR1, {sa\_handler=0x55a15ad15389, sa\_mask=[],

sa\_flags=SA\_RESTORER|SA\_INTERRUPT|SA\_NODEFER|SA\_RESETHAND|0xffffffff00000000,

sa\_restorer=0x7f03c9442520}, <unfinished ...>

[pid 30563] <... rt\_sigreturn resumed>) = 0

[pid 30564] <... rt\_sigaction resumed>{sa\_handler=SIG\_DFL, sa\_mask=[],

sa\_flags=SA\_RESTORER|SA\_NODEFER|SA\_RESETHAND, sa\_restorer=0x7f03c9442520}, 8) = 0

[pid 30563] openat(AT\_FDCWD, "/dev/shm/mappa2",

O\_RDWR|O\_CREAT|O\_NOFOLLOW|O\_CLOEXEC, 0600) = 3

[pid 30563] **ftruncate**(3, 1) = 0

[pid 30563] **mmap**(NULL, 1, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 3, 0) =

0x7fdf5c4ff000

[pid 30563] **munmap**(0x7fdf5c4ff000, 1) = 0

[pid 30563] close(3) = 0

[pid 30563] openat(AT\_FDCWD, "/dev/shm/mappa1",

O\_RDWR|O\_CREAT|O\_NOFOLLOW|O\_CLOEXEC, 0600) = 3

[pid 30563] **ftruncate**(3, 500) = 0

[pid 30563] **mmap**(NULL, 500, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 3, 0) =

0x7fdf5c4ff000

[pid 30563] read(0, hi

"h", 1) = 1

[pid 30563] read(0, "i", 1) = 1

[pid 30563] read(0, "\n", 1) = 1

[pid 30563] **munmap**(0x7fdf5c4ff000, 500) = 0

[pid 30563] close(3) = 0

[pid 30563] kill(30564, SIGUSR1) = 0

[pid 30564] --- SIGUSR1 {si\_signo=SIGUSR1, si\_code=SI\_USER, si\_pid=30563, si\_uid=1000} ---

[pid 30563] rt\_sigaction(SIGUSR1, {sa\_handler=0x561d37e7c429, sa\_mask=[],

sa\_flags=SA\_RESTORER|SA\_INTERRUPT|SA\_NODEFER|SA\_RESETHAND|0xffffffff00000000,

sa\_restorer=0x7fdf5c242520}, <unfinished ...>

[pid 30564] rt\_sigreturn({mask=[]} <unfinished ...>

[pid 30563] <... rt\_sigaction resumed>{sa\_handler=SIG\_DFL, sa\_mask=[],

sa\_flags=SA\_RESTORER|SA\_NODEFER|SA\_RESETHAND, sa\_restorer=0x7fdf5c242520}, 8) = 0

[pid 30564] <... rt\_sigreturn resumed>) = 0

[pid 30564] openat(AT\_FDCWD, "/dev/shm/mappa1",

O\_RDWR|O\_CREAT|O\_NOFOLLOW|O\_CLOEXEC, 0600) = 4

[pid 30564] **ftruncate**(4, 500) = 0

[pid 30564] **mmap**(NULL, 500, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 4, 0) =

0x7f03c980d000

[pid 30564] **munmap**(0x7f03c980d000, 500) = 0

[pid 30564] close(4) = 0

[pid 30564] openat(AT\_FDCWD, "/dev/shm/mappa2",

O\_RDWR|O\_CREAT|O\_NOFOLLOW|O\_CLOEXEC, 0600) = 4

[pid 30564] **ftruncate**(4, 1) = 0

[pid 30564] **mmap**(NULL, 1, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 4, 0) =

0x7f03c980d000

[pid 30564] **munmap**(0x7f03c980d000, 1) = 0

[pid 30564] close(4) = 0

[pid 30564] kill(30563, SIGUSR1 <unfinished ...>

[pid 30563] --- SIGUSR1 {si\_signo=SIGUSR1, si\_code=SI\_USER, si\_pid=30564, si\_uid=1000} ---

[pid 30564] <... kill resumed>) = 0

[pid 30563] rt\_sigreturn({mask=[]} <unfinished ...>

[pid 30564] rt\_sigaction(SIGUSR1, {sa\_handler=0x55a15ad15389, sa\_mask=[],

sa\_flags=SA\_RESTORER|SA\_INTERRUPT|SA\_NODEFER|SA\_RESETHAND|0xffffffff00000000,

sa\_restorer=0x7f03c9442520}, <unfinished ...>

[pid 30563] <... rt\_sigreturn resumed>) = 0

[pid 30564] <... rt\_sigaction resumed>{sa\_handler=SIG\_DFL, sa\_mask=[],

sa\_flags=SA\_RESTORER|SA\_NODEFER|SA\_RESETHAND, sa\_restorer=0x7f03c9442520}, 8) = 0

[pid 30563] openat(AT\_FDCWD, "/dev/shm/mappa2",

O\_RDWR|O\_CREAT|O\_NOFOLLOW|O\_CLOEXEC, 0600) = 3

[pid 30563] **ftruncate**(3, 1) = 0

[pid 30563] **mmap**(NULL, 1, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 3, 0) = 0x7fdf5c4ff000

[pid 30563] **munmap**(0x7fdf5c4ff000, 1) = 0

[pid 30563] close(3) = 0

[pid 30563] write(1, "\33[31m\0", 6) = 6

[pid 30563] write(1, "Error!\_Uncorrect input.", 23Error!\_Uncorrect input.) = 23

[pid 30563] write(1, "\33[0m\0", 5) = 5

[pid 30563] write(1, "\n\0", 2

) = 2

[pid 30563] openat(AT\_FDCWD, "/dev/shm/mappa1",

O\_RDWR|O\_CREAT|O\_NOFOLLOW|O\_CLOEXEC, 0600) = 3

[pid 30563] **ftruncate**(3, 500) = 0

[pid 30563] **mmap**(NULL, 500, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 3, 0) =

0x7fdf5c4ff000

[pid 30563] read(0, hhhh

"h", 1) = 1

[pid 30563] read(0, "h", 1) = 1

[pid 30563] read(0, "h", 1) = 1

[pid 30563] read(0, "h", 1) = 1

[pid 30563] read(0, "\n", 1) = 1

[pid 30563] **munmap**(0x7fdf5c4ff000, 500) = 0

[pid 30563] close(3) = 0

[pid 30563] kill(30564, SIGUSR1) = 0

[pid 30564] --- SIGUSR1 {si\_signo=SIGUSR1, si\_code=SI\_USER, si\_pid=30563, si\_uid=1000} ---

[pid 30563] rt\_sigaction(SIGUSR1, {sa\_handler=0x561d37e7c429, sa\_mask=[],

sa\_flags=SA\_RESTORER|SA\_INTERRUPT|SA\_NODEFER|SA\_RESETHAND|0xffffffff00000000,

sa\_restorer=0x7fdf5c242520}, <unfinished ...>

[pid 30564] rt\_sigreturn({mask=[]} <unfinished ...>

[pid 30563] <... rt\_sigaction resumed>{sa\_handler=SIG\_DFL, sa\_mask=[],

sa\_flags=SA\_RESTORER|SA\_NODEFER|SA\_RESETHAND, sa\_restorer=0x7fdf5c242520}, 8) = 0

[pid 30564] <... rt\_sigreturn resumed>) = 0

[pid 30564] openat(AT\_FDCWD, "/dev/shm/mappa1",

O\_RDWR|O\_CREAT|O\_NOFOLLOW|O\_CLOEXEC, 0600) = 4

[pid 30564] **ftruncate**(4, 500) = 0

[pid 30564] **mmap**(NULL, 500, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 4, 0) =

0x7f03c980d000

[pid 30564] **munmap**(0x7f03c980d000, 500) = 0

[pid 30564] close(4) = 0

[pid 30564] openat(AT\_FDCWD, "/dev/shm/mappa2",

O\_RDWR|O\_CREAT|O\_NOFOLLOW|O\_CLOEXEC, 0600) = 4

[pid 30564] **ftruncate**(4, 1) = 0

[pid 30564] **mmap**(NULL, 1, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 4, 0) =

0x7f03c980d000

[pid 30564] **munmap**(0x7f03c980d000, 1) = 0

[pid 30564] close(4) = 0

[pid 30564] kill(30563, SIGUSR1 <unfinished ...>

[pid 30563] --- SIGUSR1 {si\_signo=SIGUSR1, si\_code=SI\_USER, si\_pid=30564, si\_uid=1000} ---

[pid 30564] <... kill resumed>) = 0

[pid 30563] rt\_sigreturn({mask=[]} <unfinished ...>

[pid 30564] rt\_sigaction(SIGUSR1, {sa\_handler=0x55a15ad15389, sa\_mask=[],

sa\_flags=SA\_RESTORER|SA\_INTERRUPT|SA\_NODEFER|SA\_RESETHAND|0xffffffff00000000,

sa\_restorer=0x7f03c9442520}, <unfinished ...>

[pid 30563] <... rt\_sigreturn resumed>) = 0

[pid 30564] <... rt\_sigaction resumed>{sa\_handler=SIG\_DFL, sa\_mask=[],

sa\_flags=SA\_RESTORER|SA\_NODEFER|SA\_RESETHAND, sa\_restorer=0x7f03c9442520}, 8) = 0

[pid 30563] openat(AT\_FDCWD, "/dev/shm/mappa2",

O\_RDWR|O\_CREAT|O\_NOFOLLOW|O\_CLOEXEC, 0600) = 3

[pid 30563] **ftruncate**(3, 1) = 0

[pid 30563] **mmap**(NULL, 1, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 3, 0) =

0x7fdf5c4ff000

[pid 30563] **munmap**(0x7fdf5c4ff000, 1) = 0

[pid 30563] close(3) = 0

[pid 30563] write(1, "\33[31m\0", 6) = 6

[pid 30563] write(1, "Error!\_Uncorrect input.", 23Error!\_Uncorrect input.) = 23

[pid 30563] write(1, "\33[0m\0", 5) = 5

[pid 30563] write(1, "\n\0", 2

) = 2

[pid 30563] openat(AT\_FDCWD, "/dev/shm/mappa1",

O\_RDWR|O\_CREAT|O\_NOFOLLOW|O\_CLOEXEC, 0600) = 3

[pid 30563] **ftruncate**(3, 500) = 0

[pid 30563] **mmap**(NULL, 500, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 3, 0) =

0x7fdf5c4ff000

[pid 30563] read(0, Ha!

"H", 1) = 1

[pid 30563] read(0, "a", 1) = 1

[pid 30563] read(0, "!", 1) = 1

[pid 30563] read(0, "\n", 1) = 1

[pid 30563] **munmap**(0x7fdf5c4ff000, 500) = 0

[pid 30563] close(3) = 0

[pid 30563] kill(30564, SIGUSR1) = 0

[pid 30564] --- SIGUSR1 {si\_signo=SIGUSR1, si\_code=SI\_USER, si\_pid=30563, si\_uid=1000} ---

[pid 30563] rt\_sigaction(SIGUSR1, {sa\_handler=0x561d37e7c429, sa\_mask=[],

sa\_flags=SA\_RESTORER|SA\_INTERRUPT|SA\_NODEFER|SA\_RESETHAND|0xffffffff00000000,

sa\_restorer=0x7fdf5c242520}, <unfinished ...>

[pid 30564] rt\_sigreturn({mask=[]} <unfinished ...>

[pid 30563] <... rt\_sigaction resumed>{sa\_handler=SIG\_DFL, sa\_mask=[],

sa\_flags=SA\_RESTORER|SA\_NODEFER|SA\_RESETHAND, sa\_restorer=0x7fdf5c242520}, 8) = 0

[pid 30564] <... rt\_sigreturn resumed>) = 0

[pid 30564] openat(AT\_FDCWD, "/dev/shm/mappa1",

O\_RDWR|O\_CREAT|O\_NOFOLLOW|O\_CLOEXEC, 0600) = 4

[pid 30564] **ftruncate**(4, 500) = 0

[pid 30564] **mmap**(NULL, 500, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 4, 0) =

0x7f03c980d000

[pid 30564] **munmap**(0x7f03c980d000, 500) = 0

[pid 30564] close(4) = 0

[pid 30564] write(1, "Ha!\n", 4) = 4

[pid 30564] openat(AT\_FDCWD, "/dev/shm/mappa2",

O\_RDWR|O\_CREAT|O\_NOFOLLOW|O\_CLOEXEC, 0600) = 4

[pid 30564] **ftruncate**(4, 1) = 0

[pid 30564] **mmap**(NULL, 1, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 4, 0) =

0x7f03c980d000

[pid 30564] **munmap**(0x7f03c980d000, 1) = 0

[pid 30564] close(4) = 0

[pid 30564] kill(30563, SIGUSR1 <unfinished ...>

[pid 30563] --- SIGUSR1 {si\_signo=SIGUSR1, si\_code=SI\_USER, si\_pid=30564, si\_uid=1000} ---

[pid 30564] <... kill resumed>) = 0

[pid 30563] rt\_sigreturn({mask=[]} <unfinished ...>

[pid 30564] rt\_sigaction(SIGUSR1, {sa\_handler=0x55a15ad15389, sa\_mask=[],

sa\_flags=SA\_RESTORER|SA\_INTERRUPT|SA\_NODEFER|SA\_RESETHAND|0xffffffff00000000,

sa\_restorer=0x7f03c9442520}, <unfinished ...>

[pid 30563] <... rt\_sigreturn resumed>) = 0

[pid 30564] <... rt\_sigaction resumed>{sa\_handler=SIG\_DFL, sa\_mask=[],

sa\_flags=SA\_RESTORER|SA\_NODEFER|SA\_RESETHAND, sa\_restorer=0x7f03c9442520}, 8) = 0

[pid 30563] openat(AT\_FDCWD, "/dev/shm/mappa2",

O\_RDWR|O\_CREAT|O\_NOFOLLOW|O\_CLOEXEC, 0600) = 3

[pid 30563] **ftruncate**(3, 1) = 0

[pid 30563] **mmap**(NULL, 1, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 3, 0) =

0x7fdf5c4ff000

[pid 30563] **munmap**(0x7fdf5c4ff000, 1) = 0

[pid 30563] close(3) = 0

[pid 30563] openat(AT\_FDCWD, "/dev/shm/mappa1",

O\_RDWR|O\_CREAT|O\_NOFOLLOW|O\_CLOEXEC, 0600) = 3

[pid 30563] **ftruncate**(3, 500) = 0

[pid 30563] **mmap**(NULL, 500, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 3, 0) =

0x7fdf5c4ff000

[pid 30563] read(0,

"\n", 1) = 1

[pid 30563] write(1, "\33[32m\0", 6) = 6

[pid 30563] write(1, "\n\0", 2

) = 2

[pid 30563] write(1, "Program was ended successfully!", 31Program was ended successfully!) = 31

[pid 30563] write(1, "\n\0", 2

) = 2

[pid 30563] write(1, "\33[0m\0", 5) = 5

[pid 30563] kill(30564, SIGTERM) = 0

[pid 30564] --- SIGTERM {si\_signo=SIGTERM, si\_code=SI\_USER, si\_pid=30563, si\_uid=1000} ---

[pid 30563] unlink("/dev/shm/mappa2") = 0

[pid 30563] unlink("/dev/shm/mappa1") = 0

[pid 30563] exit\_group(0) = ?

[pid 30564] +++ killed by SIGTERM +++

+++ exited with 0 +++

arsenii@PC-Larcha14:~/Documents/VS\_code\_prog/OSI/laba\_3$

***laba\_4:***

arsenii@PC-Larcha14:~/Documents/VS\_code\_prog/OSI/laba\_4$ strace -f ./dynamic

execve("./dynamic", ["./dynamic"], 0x7fff8e286ce8 /\* 56 vars \*/) = 0

brk(NULL) = 0x556daa872000

arch\_prctl(0x3001 /\* ARCH\_??? \*/, 0x7fff33385510) = -1 EINVAL (Invalid argument)

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1,

0) = 0x7f1072bd7000

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=80671, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 80671, PROT\_READ, MAP\_PRIVATE, 3, 0) = 0x7f1072bc3000

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) =

0x7f1072800000

mmap(0x7f1072828000, 1658880, PROT\_READ|PROT\_EXEC,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x28000) = 0x7f1072828000

mmap(0x7f10729bd000, 360448, PROT\_READ,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1bd000) = 0x7f10729bd000

mmap(0x7f1072a15000, 24576, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x214000) = 0x7f1072a15000

mmap(0x7f1072a1b000, 52816, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7f1072a1b000

close(3) = 0

mmap(NULL, 12288, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1,

0) = 0x7f1072bc0000

arch\_prctl(ARCH\_SET\_FS, 0x7f1072bc0740) = 0

set\_tid\_address(0x7f1072bc0a10) = 11866

set\_robust\_list(0x7f1072bc0a20, 24) = 0

rseq(0x7f1072bc10e0, 0x20, 0, 0x53053053) = 0

mprotect(0x7f1072a15000, 16384, PROT\_READ) = 0

mprotect(0x556da96e8000, 4096, PROT\_READ) = 0

mprotect(0x7f1072c11000, 8192, PROT\_READ) = 0

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

munmap(0x7f1072bc3000, 80671) = 0

getrandom("\xc1\x4a\x8a\xbd\x71\x53\xad\xf2", 8, GRND\_NONBLOCK) = 8

brk(NULL) = 0x556daa872000

brk(0x556daa893000) = 0x556daa893000

**openat**(AT\_FDCWD, "./libfirst\_realization.so", 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|0775, st\_size=15664, ...}, AT\_EMPTY\_PATH) = 0

getcwd("/home/arsenii/Documents/VS\_code\_prog/OSI/laba\_4", 128) = 48

mmap(NULL, 16440, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) =

0x7f1072bd2000

mmap(0x7f1072bd3000, 4096, PROT\_READ|PROT\_EXEC,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1000) = 0x7f1072bd3000

mmap(0x7f1072bd4000, 4096, PROT\_READ,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000) = 0x7f1072bd4000

mmap(0x7f1072bd5000, 8192, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000) = 0x7f1072bd5000

close(3) = 0

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

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=80671, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 80671, PROT\_READ, MAP\_PRIVATE, 3, 0) = 0x7f1072bac000

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) =

0x7f1072ac5000

mmap(0x7f1072ad3000, 507904, PROT\_READ|PROT\_EXEC,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xe000) = 0x7f1072ad3000

mmap(0x7f1072b4f000, 372736, PROT\_READ,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x8a000) = 0x7f1072b4f000

mmap(0x7f1072baa000, 8192, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xe4000) = 0x7f1072baa000

close(3) = 0

mprotect(0x7f1072baa000, 4096, PROT\_READ) = 0

mprotect(0x7f1072bd5000, 4096, PROT\_READ) = 0

munmap(0x7f1072bac000, 80671) = 0

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

write(1, "\n", 1

) = 1

write(1, "Choose comand. Press: \n", 23Choose comand. Press:

) = 23

write(1, "- 0 for changing realization \n", 30- 0 for changing realization

) = 30

write(1, "- 1 for cos derivative\n", 23- 1 for cos derivative

) = 23

write(1, "- 2 for sorting array\n", 22- 2 for sorting array

) = 22

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

read(0, 1

"1\n", 1024) = 2

write(1, "Input angle in degrees ", 23Input angle in degrees ) = 23

read(0, 60

"60\n", 1024) = 3

write(1, "Input Dx in radians ", 20Input Dx in radians ) = 20

read(0, 0.001

"0.001\n", 1024) = 6

write(1, "Answ: -0.866294\n", 16Answ: -0.866294

) = 16

write(1, "\nChoose comand. Press: \n- 0 for "..., 77и

Choose comand. Press:

- 0 for changing realization

- 1 for cos derivative

) = 77

write(1, "- 2 for sorting array\n", 22- 2 for sorting array

) = 22

read(0, 0

"0\n", 1024) = 2

munmap(0x7f1072bd2000, 16440) = 0

munmap(0x7f1072ac5000, 942344) = 0

**openat**(AT\_FDCWD, "./libsecond\_realization.so", 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|0775, st\_size=16008, ...}, AT\_EMPTY\_PATH) = 0

getcwd("/home/arsenii/Documents/VS\_code\_prog/OSI/laba\_4", 128) = 48

mmap(NULL, 16496, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) =

0x7f1072bd2000

mmap(0x7f1072bd3000, 4096, PROT\_READ|PROT\_EXEC,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1000) = 0x7f1072bd3000

mmap(0x7f1072bd4000, 4096, PROT\_READ,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000) = 0x7f1072bd4000

mmap(0x7f1072bd5000, 8192, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000) = 0x7f1072bd5000

close(3) = 0

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

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=80671, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 80671, PROT\_READ, MAP\_PRIVATE, 3, 0) = 0x7f1072bac000

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) =

0x7f1072ac5000

mmap(0x7f1072ad3000, 507904, PROT\_READ|PROT\_EXEC,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xe000) = 0x7f1072ad3000

mmap(0x7f1072b4f000, 372736, PROT\_READ,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x8a000) = 0x7f1072b4f000

mmap(0x7f1072baa000, 8192, PROT\_READ|PROT\_WRITE,

MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xe4000) = 0x7f1072baa000

close(3) = 0

mprotect(0x7f1072baa000, 4096, PROT\_READ) = 0

mprotect(0x7f1072bd5000, 4096, PROT\_READ) = 0

munmap(0x7f1072bac000, 80671) = 0

write(1, "Realization was changed from rea"..., 59Realization was changed from realization1 to

realization2.

) = 59

write(1, "\nChoose comand. Press: \n- 0 for "..., 77

Choose comand. Press:

- 0 for changing realization

- 1 for cos derivative

) = 77

write(1, "- 2 for sorting array\n", 22- 2 for sorting array

) = 22

read(0, 1

"1\n", 1024) = 2

write(1, "Input angle in degrees ", 23Input angle in degrees ) = 23

read(0, 60

"60\n", 1024) = 3

write(1, "Input Dx in radians ", 20Input Dx in radians ) = 20

read(0, 0.001

"0.001\n", 1024) = 6

write(1, "Answ: -0.866026\n", 16Answ: -0.866026

) = 16

write(1, "\nChoose comand. Press: \n- 0 for "..., 77

Choose comand. Press:

- 0 for changing realization

- 1 for cos derivative

) = 77

write(1, "- 2 for sorting array\n", 22- 2 for sorting array

) = 22

read(0, "", 1024) = 0

write(1, "\n", 1

) = 1

write(1, "Program has been ended. Bye!\n", 29Program has been ended. Bye!

) = 29

munmap(0x7f1072bd2000, 16496) = 0

munmap(0x7f1072ac5000, 942344) = 0

exit\_group(0) = ?

+++ exited with 0 +++

***laba\_5-7:***

arsenii@PC-Larcha14:~/Documents/VS\_code\_prog/OSI/laba\_5\_7\_clear$ strace -f -e

trace=\!brk,clock\_nanosleep,mmap,mprotect,munmap -owrite-simple3.log ./manage\_main

Welcome in our programm! This is what command i can do:

- create 'id'

- exec 'id' 'command(start/stop/time)'

- heartbit 'time' (in ms)

- draw

Or enter q or ^D to exit

Enter you command:

->create 2

Ok: 20397

->create 3

Sending...

Ok:2: 20402

->exec 3 time

Sending...

Ok:3: 0

->exec 3 start

Sending...

Ok:3

ex ->exec 3 stop

Uncorrect input. Try again:

->Uncorrect input. Try again:

->Uncorrect input. Try again:

->exec 3 stop

Sending...

Ok:3

->exec 3 time

Sending...

Ok:3: 13275

->q

Break;

***write-simple3.log:***

*(отключил вывод системного вызова clock\_nanosleep, т.к. занимает уж ооочень много*

*места, прошлый лог с ним был на 200 мб и 2,5 млн строчек…)*

***Пояснения:***

sendto - отправление сообщения на сокет

recvmsg - получение сообщения с сокета

socket - создать конечную точку для связи

setsockopt() - set the socket options

bind() - bind a name to a socket

listen() - network listener daemon

getsockname() - get socket name

epoll\_ctl - интерфейс управления описателями epoll (очень полезная штука, которая позволяет отложить реакцию на событие и продолжить ждать остальные события)

poll - input/output multiplexing (мультиплекси́рование — уплотнение канала, то есть передача нескольких потоков данных с меньшей скоростью по одному каналу)

20387 execve("./manage\_main", ["./manage\_main"], 0x7ffc80cae7e0 /\* 56 vars \*/) = 0

20387 arch\_prctl(0x3001 /\* ARCH\_??? \*/, 0x7ffe4ad486d0) = -1 EINVAL (Invalid argument)

20387 access("/etc/ld.so.preload", R\_OK) = -1 ENOENT (No such file or directory)

20387 openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC) = 3

20387 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=81715, ...}, AT\_EMPTY\_PATH) = 0

20387 close(3) = 0

20387 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libzmq.so.5", O\_RDONLY|O\_CLOEXEC) = 3

20387 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

20387 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=634936, ...}, AT\_EMPTY\_PATH) = 0

20387 close(3) = 0

20387 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libstdc++.so.6", O\_RDONLY|O\_CLOEXEC) = 3

20387 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

20387 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=2260296, ...}, AT\_EMPTY\_PATH) = 0

20387 close(3) = 0

20387 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libgcc\_s.so.1", O\_RDONLY|O\_CLOEXEC) = 3

20387 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

20387 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=125488, ...}, AT\_EMPTY\_PATH) = 0

20387 close(3) = 0

20387 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libc.so.6", O\_RDONLY|O\_CLOEXEC) = 3

20387 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

20387 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

20387 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

20387 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

20387 newfstatat(3, "", {st\_mode=S\_IFREG|0755, st\_size=2216304, ...}, AT\_EMPTY\_PATH) = 0

20387 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

20387 close(3) = 0

20387 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libbsd.so.0", O\_RDONLY|O\_CLOEXEC) = 3

20387 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

20387 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=89096, ...}, AT\_EMPTY\_PATH) = 0

20387 close(3) = 0

20387 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libsodium.so.23",

O\_RDONLY|O\_CLOEXEC) = 3

20387 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

20387 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=355040, ...}, AT\_EMPTY\_PATH) = 0

20387 close(3) = 0

20387 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libpgm-5.3.so.0",

O\_RDONLY|O\_CLOEXEC) = 3

20387 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

20387 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=310264, ...}, AT\_EMPTY\_PATH) = 0

20387 close(3) = 0

20387 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libnorm.so.1", O\_RDONLY|O\_CLOEXEC) = 3

20387 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

20387 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=497824, ...}, AT\_EMPTY\_PATH) = 0

20387 close(3) = 0

20387 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libgssapi\_krb5.so.2",

O\_RDONLY|O\_CLOEXEC) = 3

20387 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

20387 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=338648, ...}, AT\_EMPTY\_PATH) = 0

20387 close(3) = 0

20387 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libm.so.6", O\_RDONLY|O\_CLOEXEC) = 3

20387 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

20387 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=940560, ...}, AT\_EMPTY\_PATH) = 0

20387 close(3) = 0

20387 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libmd.so.0", O\_RDONLY|O\_CLOEXEC) = 3

20387 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

20387 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=47472, ...}, AT\_EMPTY\_PATH) = 0

20387 close(3) = 0

20387 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libpthread.so.0", O\_RDONLY|O\_CLOEXEC) = 3

20387 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

20387 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=21448, ...}, AT\_EMPTY\_PATH) = 0

20387 close(3) = 0

20387 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libkrb5.so.3", O\_RDONLY|O\_CLOEXEC) = 3

20387 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

20387 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=827936, ...}, AT\_EMPTY\_PATH) = 0

20387 close(3) = 0

20387 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libk5crypto.so.3",

O\_RDONLY|O\_CLOEXEC) = 3

20387 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

20387 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=182864, ...}, AT\_EMPTY\_PATH) = 0

20387 close(3) = 0

20387 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libcom\_err.so.2",

O\_RDONLY|O\_CLOEXEC) = 3

20387 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

20387 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=18504, ...}, AT\_EMPTY\_PATH) = 0

20387 close(3) = 0

20387 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libkrb5support.so.0",

O\_RDONLY|O\_CLOEXEC) = 3

20387 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

20387 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=52016, ...}, AT\_EMPTY\_PATH) = 0

20387 close(3) = 0

20387 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libkeyutils.so.1", O\_RDONLY|O\_CLOEXEC) = 3

20387 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

20387 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=22600, ...}, AT\_EMPTY\_PATH) = 0

20387 close(3) = 0

20387 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libresolv.so.2", O\_RDONLY|O\_CLOEXEC) = 3

20387 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

20387 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=68552, ...}, AT\_EMPTY\_PATH) = 0

20387 close(3) = 0

20387 arch\_prctl(ARCH\_SET\_FS, 0x7f57c38339c0) = 0

20387 set\_tid\_address(0x7f57c3833c90) = 20387

20387 set\_robust\_list(0x7f57c3833ca0, 24) = 0

20387 rseq(0x7f57c3834360, 0x20, 0, 0x53053053) = 0

20387 prlimit64(0, RLIMIT\_STACK, NULL, {rlim\_cur=8192\*1024,

rlim\_max=RLIM64\_INFINITY}) = 0

20387 getrandom("\x2c\x01\xb6\x7f\xd4\xc3\xed\xa3", 8, GRND\_NONBLOCK) = 8

20387 futex(0x7f57c382977c, FUTEX\_WAKE\_PRIVATE, 2147483647) = 0

20387 openat(AT\_FDCWD, "/sys/devices/system/cpu/online", O\_RDONLY|O\_CLOEXEC) = 3

20387 read(3, "0-11\n", 1024) = 5

20387 close(3) = 0

20387 openat(AT\_FDCWD, "/sys/devices/system/cpu",

O\_RDONLY|O\_NONBLOCK|O\_CLOEXEC|O\_DIRECTORY) = 3

20387 newfstatat(3, "", {st\_mode=S\_IFDIR|0755, st\_size=0, ...}, AT\_EMPTY\_PATH) = 0

20387 getdents64(3, 0x55f459f1bee0 /\* 30 entries \*/, 32768) = 864

20387 getdents64(3, 0x55f459f1bee0 /\* 0 entries \*/, 32768) = 0

20387 close(3) = 0

20387 getpid() = 20387

20387 sched\_getaffinity(20387, 128, [0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11]) = 8

20387 newfstatat(AT\_FDCWD, "/etc/nsswitch.conf", {st\_mode=S\_IFREG|0644, st\_size=542, ...}, 0) = 0

20387 newfstatat(AT\_FDCWD, "/", {st\_mode=S\_IFDIR|0755, st\_size=4096, ...}, 0) = 0

20387 openat(AT\_FDCWD, "/etc/nsswitch.conf", O\_RDONLY|O\_CLOEXEC) = 3

20387 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=542, ...}, AT\_EMPTY\_PATH) = 0

20387 read(3, "# /etc/nsswitch.conf\n#\n# Example"..., 4096) = 542

20387 read(3, "", 4096) = 0

20387 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=542, ...}, AT\_EMPTY\_PATH) = 0

20387 close(3) = 0

20387 openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC) = 3

20387 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=81715, ...}, AT\_EMPTY\_PATH) = 0

20387 close(3) = 0

20387 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/glibc-hwcaps/x86-64-v4/libnss\_db.so.2",

O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

20387 newfstatat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/glibc-hwcaps/x86-64-v4",

0x7ffe4ad456c0, 0) = -1 ENOENT (No such file or directory)

...openat+newfstatat…

20387 openat(AT\_FDCWD, "/etc/protocols", O\_RDONLY|O\_CLOEXEC) = 3

20387 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=2932, ...}, AT\_EMPTY\_PATH) = 0

20387 lseek(3, 0, SEEK\_SET) = 0

20387 read(3, "# Internet (IP) protocols\n#\n# Up"..., 4096) = 2932

20387 read(3, "", 4096) = 0

20387 close(3) = 0

20387 eventfd2(0, EFD\_CLOEXEC) = 3

20387 fcntl(3, F\_GETFL) = 0x2 (flags O\_RDWR)

20387 fcntl(3, F\_SETFL, O\_RDWR|O\_NONBLOCK) = 0

20387 fcntl(3, F\_GETFL) = 0x802 (flags O\_RDWR|O\_NONBLOCK)

20387 fcntl(3, F\_SETFL, O\_RDWR|O\_NONBLOCK) = 0

20387 getpid() = 20387

20387 getpid() = 20387

20387 getrandom("\x44\x22\x00\x61\x70\xa2\x3a\xe2\xe4\x3b\x22\x87\xa3\x11\xb3\xff", 16, 0) = 16

20387 getrandom("\x0d\x1d\xd1\x8b\xc8\x9a\x35\xc7\x37\x4b\x70\x6c\x57\xdd\xe8\xad", 16, 0) = 16

20387 eventfd2(0, EFD\_CLOEXEC) = 4

20387 fcntl(4, F\_GETFL) = 0x2 (flags O\_RDWR)

20387 fcntl(4, F\_SETFL, O\_RDWR|O\_NONBLOCK) = 0

20387 fcntl(4, F\_GETFL) = 0x802 (flags O\_RDWR|O\_NONBLOCK)

20387 fcntl(4, F\_SETFL, O\_RDWR|O\_NONBLOCK) = 0

20387 getpid() = 20387

20387 epoll\_create1(EPOLL\_CLOEXEC) = 5

20387 epoll\_ctl(5, EPOLL\_CTL\_ADD, 4, {events=0, data={u32=1509016160,

u64=94507969397344}}) = 0

20387 epoll\_ctl(5, EPOLL\_CTL\_MOD, 4, {events=EPOLLIN, data={u32=1509016160,

u64=94507969397344}}) = 0

20387 getpid() = 20387

20387 rt\_sigaction(SIGRT\_1, {sa\_handler=0x7f57c3291870, sa\_mask=[],

sa\_flags=SA\_RESTORER|SA\_ONSTACK|SA\_RESTART|SA\_SIGINFO,

sa\_restorer=0x7f57c3242520}, NULL, 8) = 0

20387 rt\_sigprocmask(SIG\_UNBLOCK, [RTMIN RT\_1], NULL, 8) = 0

20387 rt\_sigprocmask(SIG\_BLOCK, ~[], [], 8) = 0

20387clone3({flags=CLONE\_VM|CLONE\_FS|CLONE\_FILES|CLONE\_SIGHAND|CLONE\_T\

HREAD|CL

ONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID|CLONE\_CHILD\_CLEARTID,

child\_tid=0x7f57c2fb6910, parent\_tid=0x7f57c2fb6910, exit\_signal=0, stack=0x7f57c27b6000,

stack\_size=0x7ffc80, tls=0x7f57c2fb6640} => {parent\_tid=[20389]}, 88) = 20389

20389 rseq(0x7f57c2fb6fe0, 0x20, 0, 0x53053053 <unfinished ...>

20387 rt\_sigprocmask(SIG\_SETMASK, [], <unfinished ...>

20389 <... rseq resumed>) = 0

20387 <... rt\_sigprocmask resumed>NULL, 8) = 0

20389 set\_robust\_list(0x7f57c2fb6920, 24 <unfinished ...>

20387 eventfd2(0, EFD\_CLOEXEC <unfinished ...>

20389 <... set\_robust\_list resumed>) = 0

20387 <... eventfd2 resumed>) = 6

20389 rt\_sigprocmask(SIG\_SETMASK, [], <unfinished ...>

20387 fcntl(6, F\_GETFL <unfinished ...>

20389 <... rt\_sigprocmask resumed>NULL, 8) = 0

20387 <... fcntl resumed>) = 0x2 (flags O\_RDWR)

20387 fcntl(6, F\_SETFL, O\_RDWR|O\_NONBLOCK) = 0

20389 rt\_sigprocmask(SIG\_BLOCK, ~[RTMIN RT\_1], <unfinished ...>

20387 fcntl(6, F\_GETFL <unfinished ...>

20389 <... rt\_sigprocmask resumed>NULL, 8) = 0

20387 <... fcntl resumed>) = 0x802 (flags O\_RDWR|O\_NONBLOCK)

20387 fcntl(6, F\_SETFL, O\_RDWR|O\_NONBLOCK <unfinished ...>

20389 sched\_getparam(20389, <unfinished ...>

20387 <... fcntl resumed>) = 0

20389 <... sched\_getparam resumed>[0]) = 0

20387 getpid( <unfinished ...>

20389 sched\_getscheduler(20389 <unfinished ...>

20387 <... getpid resumed>) = 20387

20389 <... sched\_getscheduler resumed>) = 0 (SCHED\_OTHER)

20387 epoll\_create1(EPOLL\_CLOEXEC <unfinished ...>

20389 sched\_setscheduler(20389, SCHED\_OTHER, [0] <unfinished ...>

20387 <... epoll\_create1 resumed>) = 7

20387 epoll\_ctl(7, EPOLL\_CTL\_ADD, 6, {events=0, data={u32=1509037216,

u64=94507969418400}} <unfinished ...>

20389 <... sched\_setscheduler resumed>) = 0

20387 <... epoll\_ctl resumed>) = 0

20387 epoll\_ctl(7, EPOLL\_CTL\_MOD, 6, {events=EPOLLIN, data={u32=1509037216,

u64=94507969418400}} <unfinished ...>

20389 prctl(PR\_SET\_NAME, "ZMQbg/Reaper" <unfinished ...>

20387 <... epoll\_ctl resumed>) = 0

20389 <... prctl resumed>) = 0

20389 epoll\_wait(5, <unfinished ...>

20387 rt\_sigprocmask(SIG\_BLOCK, ~[], [], 8) = 0

20387

clone3({flags=CLONE\_VM|CLONE\_FS|CLONE\_FILES|CLONE\_SIGHAND|CLONE\_THREAD|CL

ONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID|CLONE\_CHILD\_CLEARTID,

child\_tid=0x7f57c27b5910, parent\_tid=0x7f57c27b5910, exit\_signal=0, stack=0x7f57c1fb5000,

stack\_size=0x7ffc80, tls=0x7f57c27b5640} => {parent\_tid=[20390]}, 88) = 20390

20387 rt\_sigprocmask(SIG\_SETMASK, [], NULL, 8) = 0

20387 eventfd2(0, EFD\_CLOEXEC) = 8

20387 fcntl(8, F\_GETFL) = 0x2 (flags O\_RDWR)

20387 fcntl(8, F\_SETFL, O\_RDWR|O\_NONBLOCK) = 0

20387 fcntl(8, F\_GETFL <unfinished ...>

20390 rseq(0x7f57c27b5fe0, 0x20, 0, 0x53053053 <unfinished ...>

20387 <... fcntl resumed>) = 0x802 (flags O\_RDWR|O\_NONBLOCK)

20387 fcntl(8, F\_SETFL, O\_RDWR|O\_NONBLOCK) = 0

20387 getpid() = 20387

20387 eventfd2(0, EFD\_CLOEXEC) = 9

20387 fcntl(9, F\_GETFL) = 0x2 (flags O\_RDWR)

20390 <... rseq resumed>) = 0

20387 fcntl(9, F\_SETFL, O\_RDWR|O\_NONBLOCK) = 0

20390 set\_robust\_list(0x7f57c27b5920, 24 <unfinished ...>

20387 fcntl(9, F\_GETFL) = 0x802 (flags O\_RDWR|O\_NONBLOCK)

20390 <... set\_robust\_list resumed>) = 0

20387 fcntl(9, F\_SETFL, O\_RDWR|O\_NONBLOCK) = 0

20390 rt\_sigprocmask(SIG\_SETMASK, [], <unfinished ...>

20387 getpid() = 20387

20390 <... rt\_sigprocmask resumed>NULL, 8) = 0

20387 getpid( <unfinished ...>

20390 rt\_sigprocmask(SIG\_BLOCK, ~[RTMIN RT\_1], <unfinished ...>

20387 <... getpid resumed>) = 20387

20390 <... rt\_sigprocmask resumed>NULL, 8) = 0

20387 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

20390 sched\_getparam(20390, <unfinished ...>

20387 <... poll resumed>) = 0 (Timeout)

20390 <... sched\_getparam resumed>[0]) = 0

20390 sched\_getscheduler(20390 <unfinished ...>

20387 socket(AF\_NETLINK, SOCK\_RAW|SOCK\_CLOEXEC, NETLINK\_ROUTE <unfinished ...>

20390 <... sched\_getscheduler resumed>) = 0 (SCHED\_OTHER)

20387 <... socket resumed>) = 10

20390 sched\_setscheduler(20390, SCHED\_OTHER, [0] <unfinished ...>

20387 bind(10, {sa\_family=AF\_NETLINK, nl\_pid=0, nl\_groups=00000000}, 12 <unfinished ...>

20390 <... sched\_setscheduler resumed>) = 0

20387 <... bind resumed>) = 0

20390 prctl(PR\_SET\_NAME, "ZMQbg/IO/0" <unfinished ...>

20387 getsockname(10, {sa\_family=AF\_NETLINK, nl\_pid=20387, nl\_groups=00000000}, [12]) = 0

20390 <... prctl resumed>) = 0

20387 sendto(10, [{nlmsg\_len=20, nlmsg\_type=RTM\_GETLINK, nlmsg\_flags=NLM\_F\_REQUEST|NLM\_F\_DUMP, nlmsg\_seq=1704658042, nlmsg\_pid=0}, {ifi\_family=AF\_UNSPEC, ...}], 20, 0, {sa\_family=AF\_NETLINK, nl\_pid=0, nl\_groups=00000000}, 12 <unfinished ...>

20390 epoll\_wait(7, <unfinished ...>

20387 <... sendto resumed>) = 20

20387 recvmsg(10, {msg\_name={sa\_family=AF\_NETLINK, nl\_pid=0, nl\_groups=00000000}, msg\_namelen=12, msg\_iov=[{iov\_base=[[{nlmsg\_len=1404, nlmsg\_type=RTM\_NEWLINK, nlmsg\_flags=NLM\_F\_MULTI, nlmsg\_seq=1704658042, nlmsg\_pid=20387}, {ifi\_family=AF\_UNSPEC, ifi\_type=ARPHRD\_LOOPBACK, ifi\_index=if\_nametoindex("lo"), ifi\_flags=IFF\_UP|IFF\_LOOPBACK|IFF\_RUNNING|IFF\_LOWER\_UP, ifi\_change=0}, [[{nla\_len=7, nla\_type=IFLA\_IFNAME}, "lo"], [{nla\_len=8, nla\_type=IFLA\_TXQLEN}, 1000], [{nla\_len=5, nla\_type=IFLA\_OPERSTATE}, 0], [{nla\_len=5, nla\_type=IFLA\_LINKMODE}, 0], [{nla\_len=8, nla\_type=IFLA\_MTU}, 65536], [{nla\_len=8, nla\_type=IFLA\_MIN\_MTU}, 0], [{nla\_len=8, nla\_type=IFLA\_MAX\_MTU}, 0], [{nla\_len=8, nla\_type=IFLA\_GROUP}, 0], [{nla\_len=8, nla\_type=IFLA\_PROMISCUITY}, 0], [{nla\_len=8, nla\_type=0x3d /\* IFLA\_??? \*/}, "\x00\x00\x00\x00"], [{nla\_len=8, nla\_type=IFLA\_NUM\_TX\_QUEUES}, 1], [{nla\_len=8, nla\_type=IFLA\_GSO\_MAX\_SEGS}, 65535], [{nla\_len=8, nla\_type=IFLA\_GSO\_MAX\_SIZE}, 65536], [{nla\_len=8, nla\_type=0x3a /\* IFLA\_??? \*/}, "\x00\x00\x01\x00"], [{nla\_len=8, nla\_type=0x3b /\* IFLA\_??? \*/}, "\xf8\xff\x07\x00"], [{nla\_len=8, nla\_type=0x3c /\* IFLA\_??? \*/}, "\xff\xff\x00\x00"], [{nla\_len=8, nla\_type=IFLA\_NUM\_RX\_QUEUES}, 1], [{nla\_len=5, nla\_type=IFLA\_CARRIER}, 1], [{nla\_len=12, nla\_type=IFLA\_QDISC}, "noqueue"], [{nla\_len=8, nla\_type=IFLA\_CARRIER\_CHANGES}, 0], [{nla\_len=8, nla\_type=IFLA\_CARRIER\_UP\_COUNT}, 0], [{nla\_len=8, nla\_type=IFLA\_CARRIER\_DOWN\_COUNT}, 0], [{nla\_len=5, nla\_type=IFLA\_PROTO\_DOWN}, 0], [{nla\_len=36, nla\_type=IFLA\_MAP}, {mem\_start=0, mem\_end=0, base\_addr=0, irq=0, dma=0, port=0}], [{nla\_len=10, nla\_type=IFLA\_ADDRESS}, 00:00:00:00:00:00], [{nla\_len=10, nla\_type=IFLA\_BROADCAST}, 00:00:00:00:00:00], [{nla\_len=204, nla\_type=IFLA\_STATS64}, {rx\_packets=18620, tx\_packets=18620, rx\_bytes=1990342, tx\_bytes=1990342, rx\_errors=0, tx\_errors=0, rx\_dropped=0, tx\_dropped=0, multicast=0, collisions=0, rx\_length\_errors=0, rx\_over\_errors=0, rx\_crc\_errors=0, rx\_frame\_errors=0, rx\_fifo\_errors=0, rx\_missed\_errors=0, tx\_aborted\_errors=0, tx\_carrier\_errors=0, tx\_fifo\_errors=0, tx\_heartbeat\_errors=0, tx\_window\_errors=0, rx\_compressed=0, tx\_compressed=0, rx\_nohandler=0}], [{nla\_len=100, nla\_type=IFLA\_STATS}, {rx\_packets=18620, tx\_packets=18620, rx\_bytes=1990342, tx\_bytes=1990342, rx\_errors=0, tx\_errors=0, rx\_dropped=0, tx\_dropped=0, multicast=0, collisions=0, rx\_length\_errors=0, rx\_over\_errors=0, rx\_crc\_errors=0, rx\_frame\_errors=0, rx\_fifo\_errors=0, rx\_missed\_errors=0, tx\_aborted\_errors=0, tx\_carrier\_errors=0, tx\_fifo\_errors=0, tx\_heartbeat\_errors=0, tx\_window\_errors=0, rx\_compressed=0, tx\_compressed=0, rx\_nohandler=0}], [{nla\_len=12, nla\_type=IFLA\_XDP}, [{nla\_len=5, nla\_type=IFLA\_XDP\_ATTACHED}, XDP\_ATTACHED\_NONE]], [{nla\_len=804, nla\_type=IFLA\_AF\_SPEC}, [[{nla\_len=12, nla\_type=AF\_MCTP}, [{nla\_len=8, nla\_type=IFLA\_MCTP\_NET}, 1]], [{nla\_len=140, nla\_type=AF\_INET}, [{nla\_len=136, nla\_type=IFLA\_INET\_CONF}, [[IPV4\_DEVCONF\_FORWARDING-1] = 0, [IPV4\_DEVCONF\_MC\_FORWARDING-1] = 0, [IPV4\_DEVCONF\_PROXY\_ARP-1] = 0, [IPV4\_DEVCONF\_ACCEPT\_REDIRECTS-1] = 1, [IPV4\_DEVCONF\_SECURE\_REDIRECTS-1] = 1, [IPV4\_DEVCONF\_SEND\_REDIRECTS-1] = 1, [IPV4\_DEVCONF\_SHARED\_MEDIA-1] = 1, [IPV4\_DEVCONF\_RP\_FILTER-1] = 2, [IPV4\_DEVCONF\_ACCEPT\_SOURCE\_ROUTE-1] = 0, [IPV4\_DEVCONF\_BOOTP\_RELAY-1] = 0, [IPV4\_DEVCONF\_LOG\_MARTIANS-1] = 0, [IPV4\_DEVCONF\_TAG-1] = 0, [IPV4\_DEVCONF\_ARPFILTER-1] = 0, [IPV4\_DEVCONF\_MEDIUM\_ID-1] = 0, [IPV4\_DEVCONF\_NOXFRM-1] = 1, [IPV4\_DEVCONF\_NOPOLICY-1] = 1, [IPV4\_DEVCONF\_FORCE\_IGMP\_VERSION-1] = 0, [IPV4\_DEVCONF\_ARP\_ANNOUNCE-1] = 0, [IPV4\_DEVCONF\_ARP\_IGNORE-1] = 0, [IPV4\_DEVCONF\_PROMOTE\_SECONDARIES-1] = 1, [IPV4\_DEVCONF\_ARP\_ACCEPT-1] = 0, [IPV4\_DEVCONF\_ARP\_NOTIFY-1] = 0, [IPV4\_DEVCONF\_ACCEPT\_LOCAL-1] = 0, [IPV4\_DEVCONF\_SRC\_VMARK-1] = 0, [IPV4\_DEVCONF\_PROXY\_ARP\_PVLAN-1] = 0, [IPV4\_DEVCONF\_ROUTE\_LOCALNET-1] = 0, [IPV4\_DEVCONF\_IGMPV2\_UNSOLICITED\_REPORT\_INTERVAL-1] = 10000, [IPV4\_DEVCONF\_IGMPV3\_UNSOLICITED\_REPORT\_INTERVAL-1] = 1000, [IPV4\_DEVCONF\_IGNORE\_ROUTES\_WITH\_LINKDOWN-1] = 0, [IPV4\_DEVCONF\_DROP\_UNICAST\_IN\_L2\_MULTICAST-1] = 0, [IPV4\_DEVCONF\_DROP\_GRATUITOUS\_ARP-1] = 0, [IPV4\_DEVCONF\_BC\_FORWARDING-1] = 0, ...]]], [{nla\_len=648, nla\_type=AF\_INET6}, [[{nla\_len=8, nla\_type=IFLA\_INET6\_FLAGS}, IF\_READY], [{nla\_len=20, nla\_type=IFLA\_INET6\_CACHEINFO}, {max\_reasm\_len=65535, tstamp=170, reachable\_time=21796, retrans\_time=1000}], [{nla\_len=236, nla\_type=IFLA\_INET6\_CONF}, [[DEVCONF\_FORWARDING] = 0, [DEVCONF\_HOPLIMIT] = 64, [DEVCONF\_MTU6] = 65536, [DEVCONF\_ACCEPT\_RA] = 1, [DEVCONF\_ACCEPT\_REDIRECTS] = 1, [DEVCONF\_AUTOCONF] = 1, [DEVCONF\_DAD\_TRANSMITS] = 1, [DEVCONF\_RTR\_SOLICITS] = -1, [DEVCONF\_RTR\_SOLICIT\_INTERVAL] = 4000, [DEVCONF\_RTR\_SOLICIT\_DELAY] = 1000, [DEVCONF\_USE\_TEMPADDR] = -1, [DEVCONF\_TEMP\_VALID\_LFT] = 604800, [DEVCONF\_TEMP\_PREFERED\_LFT] = 86400, [DEVCONF\_REGEN\_MAX\_RETRY] = 3, [DEVCONF\_MAX\_DESYNC\_FACTOR] = 600, [DEVCONF\_MAX\_ADDRESSES] = 16, [DEVCONF\_FORCE\_MLD\_VERSION] = 0, [DEVCONF\_ACCEPT\_RA\_DEFRTR] = 1, [DEVCONF\_ACCEPT\_RA\_PINFO] = 1, [DEVCONF\_ACCEPT\_RA\_RTR\_PREF] = 1, [DEVCONF\_RTR\_PROBE\_INTERVAL] = 60000, [DEVCONF\_ACCEPT\_RA\_RT\_INFO\_MAX\_PLEN] = 0, [DEVCONF\_PROXY\_NDP] = 0, [DEVCONF\_OPTIMISTIC\_DAD] = 0, [DEVCONF\_ACCEPT\_SOURCE\_ROUTE] = 0, [DEVCONF\_MC\_FORWARDING] = 0, [DEVCONF\_DISABLE\_IPV6] = 0, [DEVCONF\_ACCEPT\_DAD] = -1, [DEVCONF\_FORCE\_TLLAO] = 0, [DEVCONF\_NDISC\_NOTIFY] = 0, [DEVCONF\_MLDV1\_UNSOLICITED\_REPORT\_INTERVAL] = 10000, [DEVCONF\_MLDV2\_UNSOLICITED\_REPORT\_INTERVAL] = 1000, ...]], [{nla\_len=300, nla\_type=IFLA\_INET6\_STATS}, [[IPSTATS\_MIB\_NUM] = 37, [IPSTATS\_MIB\_INPKTS] = 6, [IPSTATS\_MIB\_INOCTETS] = 432, [IPSTATS\_MIB\_INDELIVERS] = 6, [IPSTATS\_MIB\_OUTFORWDATAGRAMS] = 0, [IPSTATS\_MIB\_OUTPKTS] = 6, [IPSTATS\_MIB\_OUTOCTETS] = 432, [IPSTATS\_MIB\_INHDRERRORS] = 0, [IPSTATS\_MIB\_INTOOBIGERRORS] = 0, [IPSTATS\_MIB\_INNOROUTES] = 0, [IPSTATS\_MIB\_INADDRERRORS] = 0, [IPSTATS\_MIB\_INUNKNOWNPROTOS] = 0, [IPSTATS\_MIB\_INTRUNCATEDPKTS] = 0, [IPSTATS\_MIB\_INDISCARDS] = 0, [IPSTATS\_MIB\_OUTDISCARDS] = 0, [IPSTATS\_MIB\_OUTNOROUTES] = 0, [IPSTATS\_MIB\_REASMTIMEOUT] = 0, [IPSTATS\_MIB\_REASMREQDS] = 0, [IPSTATS\_MIB\_REASMOKS] = 0, [IPSTATS\_MIB\_REASMFAILS] = 0, [IPSTATS\_MIB\_FRAGOKS] = 0, [IPSTATS\_MIB\_FRAGFAILS] = 0, [IPSTATS\_MIB\_FRAGCREATES] = 0, [IPSTATS\_MIB\_INMCASTPKTS] = 0, [IPSTATS\_MIB\_OUTMCASTPKTS] = 2, [IPSTATS\_MIB\_INBCASTPKTS] = 0, [IPSTATS\_MIB\_OUTBCASTPKTS] = 0, [IPSTATS\_MIB\_INMCASTOCTETS] = 0, [IPSTATS\_MIB\_OUTMCASTOCTETS] = 152, [IPSTATS\_MIB\_INBCASTOCTETS] = 0, [IPSTATS\_MIB\_OUTBCASTOCTETS] = 0, [IPSTATS\_MIB\_CSUMERRORS] = 0, ...]], [{nla\_len=52, nla\_type=IFLA\_INET6\_ICMP6STATS}, [[ICMP6\_MIB\_NUM] = 6, [ICMP6\_MIB\_INMSGS] = 2, [ICMP6\_MIB\_INERRORS] = 0, [ICMP6\_MIB\_OUTMSGS] = 2, [ICMP6\_MIB\_OUTERRORS] = 0, [ICMP6\_MIB\_CSUMERRORS] = 0]], [{nla\_len=20, nla\_type=IFLA\_INET6\_TOKEN}, inet\_pton(AF\_INET6, "::")], [{nla\_len=5, nla\_type=IFLA\_INET6\_ADDR\_GEN\_MODE}, IN6\_ADDR\_GEN\_MODE\_EUI64]]]]], {nla\_len=4, nla\_type=NLA\_F\_NESTED|0x3e /\* IFLA\_??? \*/}]], [{nlmsg\_len=1440, nlmsg\_type=RTM\_NEWLINK, nlmsg\_flags=NLM\_F\_MULTI, nlmsg\_seq=1704658042, nlmsg\_pid=20387}, {ifi\_family=AF\_UNSPEC, ifi\_type=ARPHRD\_ETHER, ifi\_index=if\_nametoindex("enp3s0"), ifi\_flags=IFF\_UP|IFF\_BROADCAST|IFF\_MULTICAST, ifi\_change=0}, [[{nla\_len=11, nla\_type=IFLA\_IFNAME}, "enp3s0"], [{nla\_len=8, nla\_type=IFLA\_TXQLEN}, 1000], [{nla\_len=5, nla\_type=IFLA\_OPERSTATE}, 2], [{nla\_len=5, nla\_type=IFLA\_LINKMODE}, 0], [{nla\_len=8, nla\_type=IFLA\_MTU}, 1500], [{nla\_len=8, nla\_type=IFLA\_MIN\_MTU}, 68], [{nla\_len=8, nla\_type=IFLA\_MAX\_MTU}, 9194], [{nla\_len=8, nla\_type=IFLA\_GROUP}, 0], [{nla\_len=8, nla\_type=IFLA\_PROMISCUITY}, 0], [{nla\_len=8, nla\_type=0x3d /\* IFLA\_??? \*/}, "\x00\x00\x00\x00"], [{nla\_len=8, nla\_type=IFLA\_NUM\_TX\_QUEUES}, 1], [{nla\_len=8, nla\_type=IFLA\_GSO\_MAX\_SEGS}, 64], [{nla\_len=8, nla\_type=IFLA\_GSO\_MAX\_SIZE}, 64000], [{nla\_len=8, nla\_type=0x3a /\* IFLA\_??? \*/}, "\x00\x00\x01\x00"], [{nla\_len=8, nla\_type=0x3b /\* IFLA\_??? \*/}, "\x00\xfa\x00\x00"], [{nla\_len=8, nla\_type=0x3c /\* IFLA\_??? \*/}, "\x40\x00\x00\x00"], [{nla\_len=8, nla\_type=IFLA\_NUM\_RX\_QUEUES}, 1], [{nla\_len=5, nla\_type=IFLA\_CARRIER}, 0], [{nla\_len=13, nla\_type=IFLA\_QDISC}, "fq\_codel"], [{nla\_len=8, nla\_type=IFLA\_CARRIER\_CHANGES}, 1], [{nla\_len=8, nla\_type=IFLA\_CARRIER\_UP\_COUNT}, 0], [{nla\_len=8, nla\_type=IFLA\_CARRIER\_DOWN\_COUNT}, 1], [{nla\_len=5, nla\_type=IFLA\_PROTO\_DOWN}, 0], [{nla\_len=36, nla\_type=IFLA\_MAP}, {mem\_start=0, 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tx\_carrier\_errors=0, tx\_fifo\_errors=0, tx\_heartbeat\_errors=0, tx\_window\_errors=0, rx\_compressed=0, tx\_compressed=0, rx\_nohandler=0}], [{nla\_len=12, nla\_type=IFLA\_XDP}, [{nla\_len=5, nla\_type=IFLA\_XDP\_ATTACHED}, XDP\_ATTACHED\_NONE]], [{nla\_len=10, nla\_type=IFLA\_PERM\_ADDRESS}, 04:7c:16:31:22:f5], [{nla\_len=792, nla\_type=IFLA\_AF\_SPEC}, [[{nla\_len=140, nla\_type=AF\_INET}, [{nla\_len=136, nla\_type=IFLA\_INET\_CONF}, [[IPV4\_DEVCONF\_FORWARDING-1] = 0, [IPV4\_DEVCONF\_MC\_FORWARDING-1] = 0, [IPV4\_DEVCONF\_PROXY\_ARP-1] = 0, [IPV4\_DEVCONF\_ACCEPT\_REDIRECTS-1] = 1, [IPV4\_DEVCONF\_SECURE\_REDIRECTS-1] = 1, [IPV4\_DEVCONF\_SEND\_REDIRECTS-1] = 1, [IPV4\_DEVCONF\_SHARED\_MEDIA-1] = 1, [IPV4\_DEVCONF\_RP\_FILTER-1] = 2, [IPV4\_DEVCONF\_ACCEPT\_SOURCE\_ROUTE-1] = 0, [IPV4\_DEVCONF\_BOOTP\_RELAY-1] = 0, [IPV4\_DEVCONF\_LOG\_MARTIANS-1] = 0, [IPV4\_DEVCONF\_TAG-1] = 0, [IPV4\_DEVCONF\_ARPFILTER-1] = 0, [IPV4\_DEVCONF\_MEDIUM\_ID-1] = 0, [IPV4\_DEVCONF\_NOXFRM-1] = 0, [IPV4\_DEVCONF\_NOPOLICY-1] = 0, [IPV4\_DEVCONF\_FORCE\_IGMP\_VERSION-1] = 0, [IPV4\_DEVCONF\_ARP\_ANNOUNCE-1] = 0, [IPV4\_DEVCONF\_ARP\_IGNORE-1] = 0, [IPV4\_DEVCONF\_PROMOTE\_SECONDARIES-1] = 1, [IPV4\_DEVCONF\_ARP\_ACCEPT-1] = 0, [IPV4\_DEVCONF\_ARP\_NOTIFY-1] = 0, [IPV4\_DEVCONF\_ACCEPT\_LOCAL-1] = 0, [IPV4\_DEVCONF\_SRC\_VMARK-1] = 0, [IPV4\_DEVCONF\_PROXY\_ARP\_PVLAN-1] = 0, [IPV4\_DEVCONF\_ROUTE\_LOCALNET-1] = 0, [IPV4\_DEVCONF\_IGMPV2\_UNSOLICITED\_REPORT\_INTERVAL-1] = 10000, [IPV4\_DEVCONF\_IGMPV3\_UNSOLICITED\_REPORT\_INTERVAL-1] = 1000, [IPV4\_DEVCONF\_IGNORE\_ROUTES\_WITH\_LINKDOWN-1] = 0, [IPV4\_DEVCONF\_DROP\_UNICAST\_IN\_L2\_MULTICAST-1] = 0, [IPV4\_DEVCONF\_DROP\_GRATUITOUS\_ARP-1] = 0, [IPV4\_DEVCONF\_BC\_FORWARDING-1] = 0, ...]]], [{nla\_len=648, nla\_type=AF\_INET6}, [[{nla\_len=8, nla\_type=IFLA\_INET6\_FLAGS}, 0], [{nla\_len=20, nla\_type=IFLA\_INET6\_CACHEINFO}, {max\_reasm\_len=65535, tstamp=1058776, reachable\_time=17116, retrans\_time=1000}], [{nla\_len=236, nla\_type=IFLA\_INET6\_CONF}, [[DEVCONF\_FORWARDING] = 0, [DEVCONF\_HOPLIMIT] = 64, [DEVCONF\_MTU6] = 1500, [DEVCONF\_ACCEPT\_RA] = 0, [DEVCONF\_ACCEPT\_REDIRECTS] = 1, [DEVCONF\_AUTOCONF] = 1, [DEVCONF\_DAD\_TRANSMITS] = 1, [DEVCONF\_RTR\_SOLICITS] = -1, [DEVCONF\_RTR\_SOLICIT\_INTERVAL] = 4000, [DEVCONF\_RTR\_SOLICIT\_DELAY] = 1000, [DEVCONF\_USE\_TEMPADDR] = 0, [DEVCONF\_TEMP\_VALID\_LFT] = 604800, [DEVCONF\_TEMP\_PREFERED\_LFT] = 86400, [DEVCONF\_REGEN\_MAX\_RETRY] = 3, [DEVCONF\_MAX\_DESYNC\_FACTOR] = 600, [DEVCONF\_MAX\_ADDRESSES] = 16, [DEVCONF\_FORCE\_MLD\_VERSION] = 0, [DEVCONF\_ACCEPT\_RA\_DEFRTR] = 1, [DEVCONF\_ACCEPT\_RA\_PINFO] = 1, [DEVCONF\_ACCEPT\_RA\_RTR\_PREF] = 1, [DEVCONF\_RTR\_PROBE\_INTERVAL] = 60000, [DEVCONF\_ACCEPT\_RA\_RT\_INFO\_MAX\_PLEN] = 0, [DEVCONF\_PROXY\_NDP] = 0, [DEVCONF\_OPTIMISTIC\_DAD] = 0, [DEVCONF\_ACCEPT\_SOURCE\_ROUTE] = 0, [DEVCONF\_MC\_FORWARDING] = 0, [DEVCONF\_DISABLE\_IPV6] = 0, [DEVCONF\_ACCEPT\_DAD] = 1, [DEVCONF\_FORCE\_TLLAO] = 0, [DEVCONF\_NDISC\_NOTIFY] = 0, [DEVCONF\_MLDV1\_UNSOLICITED\_REPORT\_INTERVAL] = 10000, [DEVCONF\_MLDV2\_UNSOLICITED\_REPORT\_INTERVAL] = 1000, ...]], [{nla\_len=300, nla\_type=IFLA\_INET6\_STATS}, [[IPSTATS\_MIB\_NUM] = 37, [IPSTATS\_MIB\_INPKTS] = 0, [IPSTATS\_MIB\_INOCTETS] = 0, [IPSTATS\_MIB\_INDELIVERS] = 0, [IPSTATS\_MIB\_OUTFORWDATAGRAMS] = 0, [IPSTATS\_MIB\_OUTPKTS] = 0, [IPSTATS\_MIB\_OUTOCTETS] = 0, [IPSTATS\_MIB\_INHDRERRORS] = 0, [IPSTATS\_MIB\_INTOOBIGERRORS] = 0, [IPSTATS\_MIB\_INNOROUTES] = 0, [IPSTATS\_MIB\_INADDRERRORS] = 0, [IPSTATS\_MIB\_INUNKNOWNPROTOS] = 0, [IPSTATS\_MIB\_INTRUNCATEDPKTS] = 0, [IPSTATS\_MIB\_INDISCARDS] = 0, [IPSTATS\_MIB\_OUTDISCARDS] = 0, [IPSTATS\_MIB\_OUTNOROUTES] = 0, [IPSTATS\_MIB\_REASMTIMEOUT] = 0, [IPSTATS\_MIB\_REASMREQDS] = 0, [IPSTATS\_MIB\_REASMOKS] = 0, [IPSTATS\_MIB\_REASMFAILS] = 0, [IPSTATS\_MIB\_FRAGOKS] = 0, [IPSTATS\_MIB\_FRAGFAILS] = 0, [IPSTATS\_MIB\_FRAGCREATES] = 0, [IPSTATS\_MIB\_INMCASTPKTS] = 0, [IPSTATS\_MIB\_OUTMCASTPKTS] = 0, [IPSTATS\_MIB\_INBCASTPKTS] = 0, [IPSTATS\_MIB\_OUTBCASTPKTS] = 0, [IPSTATS\_MIB\_INMCASTOCTETS] = 0, [IPSTATS\_MIB\_OUTMCASTOCTETS] = 0, [IPSTATS\_MIB\_INBCASTOCTETS] = 0, [IPSTATS\_MIB\_OUTBCASTOCTETS] = 0, [IPSTATS\_MIB\_CSUMERRORS] = 0, ...]], [{nla\_len=52, nla\_type=IFLA\_INET6\_ICMP6STATS}, [[ICMP6\_MIB\_NUM] = 6, [ICMP6\_MIB\_INMSGS] = 0, [ICMP6\_MIB\_INERRORS] = 0, [ICMP6\_MIB\_OUTMSGS] = 0, [ICMP6\_MIB\_OUTERRORS] = 0, [ICMP6\_MIB\_CSUMERRORS] = 0]], [{nla\_len=20, nla\_type=IFLA\_INET6\_TOKEN}, inet\_pton(AF\_INET6, "::")], [{nla\_len=5, nla\_type=IFLA\_INET6\_ADDR\_GEN\_MODE}, IN6\_ADDR\_GEN\_MODE\_NONE]]]]], [{nla\_len=17, nla\_type=IFLA\_PARENT\_DEV\_NAME}, "0000:03:00.0"], ...]]], iov\_len=4096}], msg\_iovlen=1, msg\_controllen=0, msg\_flags=0}, 0) = 2844

20387 recvmsg(10, {msg\_name={sa\_family=AF\_NETLINK, nl\_pid=0, nl\_groups=00000000},

…)

20387 recvmsg(10, {msg\_name={sa\_family=AF\_NETLINK, nl\_pid=0, nl\_groups=00000000}, msg\_namelen=12, msg\_iov=[{iov\_base=[{nlmsg\_len=20, nlmsg\_type=NLMSG\_DONE, nlmsg\_flags=NLM\_F\_MULTI, nlmsg\_seq=1704658042, nlmsg\_pid=20387}, 0], iov\_len=4096}], msg\_iovlen=1, msg\_controllen=0, msg\_flags=0}, 0) = 20

20387 sendto(10, [{nlmsg\_len=20, nlmsg\_type=RTM\_GETADDR, nlmsg\_flags=NLM\_F\_REQUEST|NLM\_F\_DUMP, nlmsg\_seq=1704658043, nlmsg\_pid=0}, {ifa\_family=AF\_UNSPEC, ...}], 20, 0, {sa\_family=AF\_NETLINK, nl\_pid=0, nl\_groups=00000000}, 12) = 20

20387 recvmsg(10, {msg\_name={sa\_family=AF\_NETLINK, nl\_pid=0, nl\_groups=00000000},

…)

20387 recvmsg(10, {msg\_name={sa\_family=AF\_NETLINK, nl\_pid=0, nl\_groups=00000000},

…)

20387 recvmsg(10, {msg\_name={sa\_family=AF\_NETLINK, nl\_pid=0, nl\_groups=00000000}, msg\_namelen=12, msg\_iov=[{iov\_base=[{nlmsg\_len=20, nlmsg\_type=NLMSG\_DONE, nlmsg\_flags=NLM\_F\_MULTI, nlmsg\_seq=1704658043, nlmsg\_pid=20387}, 0], iov\_len=4096}], msg\_iovlen=1, msg\_controllen=0, msg\_flags=0}, 0) = 20

20387 close(10) = 0

20387 socket(AF\_INET, SOCK\_STREAM|SOCK\_CLOEXEC, IPPROTO\_TCP) = 10

20387 setsockopt(10, SOL\_SOCKET, SO\_REUSEADDR, [1], 4) = 0

20387 bind(10, {sa\_family=AF\_INET, sin\_port=htons(5555), sin\_addr=inet\_addr("127.0.0.1")}, 16) = 0

20387 listen(10, 100) = 0

20387 getsockname(10, {sa\_family=AF\_INET, sin\_port=htons(5555), sin\_addr=inet\_addr("127.0.0.1")}, [128 => 16]) = 0

20387 getsockname(10, {sa\_family=AF\_INET, sin\_port=htons(5555), sin\_addr=inet\_addr("127.0.0.1")}, [128 => 16]) = 0

20387 getpid() = 20387

20387 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

20387 getpid( <unfinished ...>

20390 <... epoll\_wait resumed>[{events=EPOLLIN, data={u32=1509037216, u64=94507969418400}}], 256, -1) = 1

20387 <... getpid resumed>) = 20387

20387 write(8, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>

20390 getpid( <unfinished ...>

20387 <... write resumed>) = 8

20390 <... getpid resumed>) = 20387

20387 getpid( <unfinished ...>

20390 poll([{fd=6, events=POLLIN}], 1, 0 <unfinished ...>

20387 <... getpid resumed>) = 20387

20390 <... poll resumed>) = 1 ([{fd=6, revents=POLLIN}])

20387 poll([{fd=9, events=POLLIN}], 1, 0 <unfinished ...>

20390 getpid( <unfinished ...>

20387 <... poll resumed>) = 0 (Timeout)

20390 <... getpid resumed>) = 20387

20387 socket(AF\_NETLINK, SOCK\_RAW|SOCK\_CLOEXEC, NETLINK\_ROUTE <unfinished ...>

20390 read(6, <unfinished ...>

20387 <... socket resumed>) = 11

20390 <... read resumed>"\1\0\0\0\0\0\0\0", 8) = 8

20387 bind(11, {sa\_family=AF\_NETLINK, nl\_pid=0, nl\_groups=00000000}, 12) = 0

20387 getsockname(11, {sa\_family=AF\_NETLINK, nl\_pid=20387, nl\_groups=00000000}, [12]) = 0

20387 sendto(11, [{nlmsg\_len=20, nlmsg\_type=RTM\_GETLINK, nlmsg\_flags=NLM\_F\_REQUEST|NLM\_F\_DUMP, nlmsg\_seq=1704658042, nlmsg\_pid=0}, {ifi\_family=AF\_UNSPEC, ...}], 20, 0, {sa\_family=AF\_NETLINK, nl\_pid=0, nl\_groups=00000000}, 12 <unfinished ...>

20390 epoll\_ctl(7, EPOLL\_CTL\_ADD, 10, {events=0, data={u32=3154119536, u64=140014793001840}} <unfinished ...>

20387 <... sendto resumed>) = 20

20390 <... epoll\_ctl resumed>) = 0

20387 recvmsg(11, <unfinished ...>

20390 epoll\_ctl(7, EPOLL\_CTL\_MOD, 10, {events=EPOLLIN, data={u32=3154119536, u64=140014793001840}}) = 0

20387 <... recvmsg resumed>{msg\_name={sa\_family=AF\_NETLINK, nl\_pid=0,

…)

20390 getpid( <unfinished ...>

20387 recvmsg(11, <unfinished ...>

20390 <... getpid resumed>) = 20387

20387 <... recvmsg resumed>{msg\_name={sa\_family=AF\_NETLINK, nl\_pid=0,

…)

20390 poll([{fd=6, events=POLLIN}], 1, 0 <unfinished ...>

20387 recvmsg(11, <unfinished ...>

20390 <... poll resumed>) = 0 (Timeout)

20387 <... recvmsg resumed>{msg\_name={sa\_family=AF\_NETLINK, nl\_pid=0, nl\_groups=00000000}, msg\_namelen=12, msg\_iov=[{iov\_base=[{nlmsg\_len=20, nlmsg\_type=NLMSG\_DONE, nlmsg\_flags=NLM\_F\_MULTI, nlmsg\_seq=1704658042, nlmsg\_pid=20387}, 0], iov\_len=4096}], msg\_iovlen=1, msg\_controllen=0, msg\_flags=0}, 0) = 20

20390 epoll\_wait(7, <unfinished ...>

20387 sendto(11, [{nlmsg\_len=20, nlmsg\_type=RTM\_GETADDR, nlmsg\_flags=NLM\_F\_REQUEST|NLM\_F\_DUMP, nlmsg\_seq=1704658043, nlmsg\_pid=0}, {ifa\_family=AF\_UNSPEC, ...}], 20, 0, {sa\_family=AF\_NETLINK, nl\_pid=0, nl\_groups=00000000}, 12) = 20

20387 recvmsg(11, {msg\_name={sa\_family=AF\_NETLINK, nl\_pid=0, nl\_groups=00000000},

…)

20387 recvmsg(11, {msg\_name={sa\_family=AF\_NETLINK, nl\_pid=0, nl\_groups=00000000},

…)

20387 recvmsg(11, {msg\_name={sa\_family=AF\_NETLINK, nl\_pid=0, nl\_groups=00000000}, msg\_namelen=12, msg\_iov=[{iov\_base=[{nlmsg\_len=20, nlmsg\_type=NLMSG\_DONE, nlmsg\_flags=NLM\_F\_MULTI, nlmsg\_seq=1704658043, nlmsg\_pid=20387}, 0], iov\_len=4096}], msg\_iovlen=1, msg\_controllen=0, msg\_flags=0}, 0) = 20

20387 close(11) = 0

20387 socket(AF\_INET, SOCK\_STREAM|SOCK\_CLOEXEC, IPPROTO\_TCP) = 11

20387 setsockopt(11, SOL\_SOCKET, SO\_REUSEADDR, [1], 4) = 0

20387 bind(11, {sa\_family=AF\_INET, sin\_port=htons(5556), sin\_addr=inet\_addr("127.0.0.1")}, 16) = 0

20387 listen(11, 100) = 0

20387 getsockname(11, {sa\_family=AF\_INET, sin\_port=htons(5556), sin\_addr=inet\_addr("127.0.0.1")}, [128 => 16]) = 0

20387 getsockname(11, {sa\_family=AF\_INET, sin\_port=htons(5556), sin\_addr=inet\_addr("127.0.0.1")}, [128 => 16]) = 0

20387 getpid() = 20387

20387 write(6, "\1\0\0\0\0\0\0\0", 8) = 8

20390 <... epoll\_wait resumed>[{events=EPOLLIN, data={u32=1509037216, u64=94507969418400}}], 256, -1) = 1

20387 getpid() = 20387

20390 getpid( <unfinished ...>

20387 write(9, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>

20390 <... getpid resumed>) = 20387

20387 <... write resumed>) = 8

20390 poll([{fd=6, events=POLLIN}], 1, 0) = 1 ([{fd=6, revents=POLLIN}])

20387 newfstatat(1, "", <unfinished ...>

20390 getpid( <unfinished ...>

20387 <... newfstatat resumed>{st\_mode=S\_IFCHR|0620, st\_rdev=makedev(0x88, 0x1), ...}, AT\_EMPTY\_PATH) = 0

20390 <... getpid resumed>) = 20387

20387 write(1, "Welcome in our programm! This is"..., 56 <unfinished ...>

20390 read(6, <unfinished ...>

20387 <... write resumed>) = 56

20390 <... read resumed>"\1\0\0\0\0\0\0\0", 8) = 8

20387 write(1, " - create 'id' \n", 16 <unfinished ...>

20390 epoll\_ctl(7, EPOLL\_CTL\_ADD, 11, {events=0, data={u32=3154119568, u64=140014793001872}} <unfinished ...>

20387 <... write resumed>) = 16

20390 <... epoll\_ctl resumed>) = 0

20387 write(1, " - exec 'id' 'command(start/stop"..., 41 <unfinished ...>

20390 epoll\_ctl(7, EPOLL\_CTL\_MOD, 11, {events=EPOLLIN, data={u32=3154119568, u64=140014793001872}} <unfinished ...>

20387 <... write resumed>) = 41

20390 <... epoll\_ctl resumed>) = 0

20387 write(1, " - heartbit 'time' (in ms) \n", 28 <unfinished ...>

20390 getpid( <unfinished ...>

20387 <... write resumed>) = 28

20390 <... getpid resumed>) = 20387

20387 write(1, " - draw\n", 8 <unfinished ...>

20390 poll([{fd=6, events=POLLIN}], 1, 0 <unfinished ...>

20387 <... write resumed>) = 8

20390 <... poll resumed>) = 0 (Timeout)

20387 write(1, "Or enter q or ^D to exit\n", 25 <unfinished ...>

20390 epoll\_wait(7, <unfinished ...>

20387 <... write resumed>) = 25

20387 write(1, "Enter you command: \n", 20) = 20

20387 write(1, " ->", 3) = 3

20387 newfstatat(0, "", {st\_mode=S\_IFCHR|0620, st\_rdev=makedev(0x88, 0x1), ...},

AT\_EMPTY\_PATH) = 0

20387 read(0, "create 2\n", 1024) = 9

20387 clone(child\_stack=NULL,

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

child\_tidptr=0x7f57c3833c90) = 20397

20397 set\_robust\_list(0x7f57c3833ca0, 24 <unfinished ...>

20387 write(1, "Ok: 20397\n", 10 <unfinished ...>

20397 <... set\_robust\_list resumed>) = 0

20387 <... write resumed>) = 10

20387 write(1, " ->", 3) = 3

20387 read(0, <unfinished ...>

20397 execve("./node", ["./node", "2"], 0x7ffe4ad488a8 /\* 56 vars \*/) = 0

20397 arch\_prctl(0x3001 /\* ARCH\_??? \*/, 0x7ffd7f3e2270) = -1 EINVAL (Invalid argument)

20397 access("/etc/ld.so.preload", R\_OK) = -1 ENOENT (No such file or directory)

20397 openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC) = 3

20397 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=81715, ...}, AT\_EMPTY\_PATH) = 0

20397 close(3) = 0

20397 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libzmq.so.5", O\_RDONLY|O\_CLOEXEC) = 3

20397 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

20397 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=634936, ...}, AT\_EMPTY\_PATH) = 0

20397 close(3) = 0

*…Где фулл? А фулл лежит в логе…*

20389 poll([{fd=4, events=POLLIN}], 1, 0 <unfinished ...>

20387 write(6, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>

20389 <... poll resumed>) = 0 (Timeout)

20387 <... write resumed>) = 8

20390 <... epoll\_wait resumed>[{events=EPOLLIN, data={u32=1509037216, u64=94507969418400}}], 256, -1) = 1

20387 futex(0x7f57c27b5910, FUTEX\_WAIT\_BITSET|FUTEX\_CLOCK\_REALTIME, 20390, NULL, FUTEX\_BITSET\_MATCH\_ANY <unfinished ...>

20389 rt\_sigprocmask(SIG\_BLOCK, ~[RT\_1], <unfinished ...>

20390 getpid( <unfinished ...>

20389 <... rt\_sigprocmask resumed>NULL, 8) = 0

20390 <... getpid resumed>) = 20387

20389 madvise(0x7f57c27b6000, 8368128, MADV\_DONTNEED <unfinished ...>

20390 poll([{fd=6, events=POLLIN}], 1, 0 <unfinished ...>

20389 <... madvise resumed>) = 0

20390 <... poll resumed>) = 1 ([{fd=6, revents=POLLIN}])

20389 exit(0 <unfinished ...>

20390 getpid( <unfinished ...>

20389 <... exit resumed>) = ?

20390 <... getpid resumed>) = 20387

20390 read(6, <unfinished ...>

20389 +++ exited with 0 +++

20390 <... read resumed>"\1\0\0\0\0\0\0\0", 8) = 8

20390 epoll\_ctl(7, EPOLL\_CTL\_DEL, 6, 0x55f459f214a4) = 0

20390 getpid() = 20387

20390 poll([{fd=6, events=POLLIN}], 1, 0) = 0 (Timeout)

20390 rt\_sigprocmask(SIG\_BLOCK, ~[RT\_1], NULL, 8) = 0

20390 madvise(0x7f57c1fb5000, 8368128, MADV\_DONTNEED) = 0

20390 exit(0) = ?

20387 <... futex resumed>) = 0

20390 +++ exited with 0 +++

20387 close(7) = 0

20387 close(6) = 0

20387 close(5) = 0

20387 close(4) = 0

20387 close(3) = 0

20387 lseek(0, -1, SEEK\_CUR) = -1 ESPIPE (Illegal seek)

20387 exit\_group(0) = ?

20387 +++ exited with 0 +++

20399 <... epoll\_wait resumed> <unfinished ...>) = ?

20398 <... epoll\_wait resumed> <unfinished ...>) = ?

20397 <... poll resumed> <unfinished ...>) = ?

20399 +++ killed by SIGKILL +++

20398 +++ killed by SIGKILL +++

20404 <... epoll\_wait resumed> <unfinished ...>) = ?

20397 +++ killed by SIGKILL +++

20403 <... epoll\_wait resumed> <unfinished ...>) = ?

20404 +++ killed by SIGKILL +++

20402 <... poll resumed> <unfinished ...>) = ?

20403 +++ killed by SIGKILL +++

20402 +++ killed by SIGKILL +++

**Протокол работы программы**

**Тестирование:**

**Вывод**