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»**

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**Постановка задачи**

**Вариант 8.**

Цель работы: Приобретение практических навыков диагностики работы программного обеспечения.

Задание: при выполнении лабораторных работ по курсу ОС необходимо продемонстрировать ключевые системные вызовы, которые в них используются и то, что их использование соответствует варианту ЛР. По итогам выполнения всех лабораторных работ отчет по данной ЛР должен содержать краткую сводку по исследованию написанных программ.

**Общий метод и алгоритм решения**

Для демонстрации системных вызовов будем использовать утилиту strace в операционной системе linux.

Strace — это диагностическая, отладочная и обучающая утилита пользовательского пространства для Linux. Она используется для мониторинга и вмешательства во взаимодействия между процессами и ядром Linux, включая системные вызовы, доставку сигналов и изменение состояния процесса. Работа strace возможна благодаря функции ядра, известной как ptrace. Наиболее часто он используется для запуска программы и вывода списка системных вызовов, которые она выполняет. Это особенно полезно, когда программа часто аварийно завершает работу или ведет себя непредсказуемо; например, strace может показать, что программа пытается получить доступ к несуществующему или недоступному файлу.

Еще одно полезное применение strace — это использование флага -p для присоединения к уже запущенному процессу. Это может быть полезно, если процесс перестал отвечать, и strace может помочь определить, что процесс заблокирован при попытке установить сетевое соединение.

Кроме того, strace предоставляет множество других возможностей:

* Фильтрация системных вызовов: Вы можете указать, какие системные вызовы следует отслеживать, используя параметр -e trace=. Это можно сделать по имени (например, clone, fork, vfork), с использованием предопределенных групп (например, %ipc или %file) или с помощью регулярных выражений (начиная с версии strace 4.17, например, -e trace=/clock\_.\*).
* Трассировка путей: Вы можете указать список путей для трассировки, используя параметр -P (например, -P /etc/ld.so.cache).
* Выгрузка ввода-вывода: Вы можете указать список файловых дескрипторов для выгрузки ввода-вывода, используя параметры -e read= и -e write=.
* Подсчет времени выполнения: Strace позволяет подсчитывать время выполнения системных вызовов и их количество, используя параметры -T, -c, -C и -w. Параметр -U позволяет выводить дополнительную информацию, такую как минимальное и максимальное время выполнения системного вызова.
* Временные метки: Strace может печатать относительные или абсолютные временные метки, используя опции -t и -r.
* Изменение системных вызовов: Strace позволяет изменять выполняемые системные вызовы, включая изменение возвращаемого значения и кода ошибки, внедрение сигналов, задержек и изменение данных, на которые указывают аргументы системных вызовов. Это достигается с помощью опции -e inject=syscall specification:tampering specification:retval=:error=:signal=:delay\_enter=:delay\_exit=:poke\_enter=:poke\_exit=.
* Информация о дескрипторах файлов: Strace может извлекать информацию о дескрипторах файлов, включая сокеты, используя опцию -y. Опция -yy предоставляет дополнительную информацию, такую как адреса конечных точек для сокетов, пути и основные/дополнительные номера устройств для файлов.
* Трассировка стека: Strace может печатать трассировки стека, включая разборку символов (начиная с версии strace 4.21, используя опцию -k).

Strace также поддерживает множество других опций и параметров, которые делают его мощным инструментом для диагностики и отладки программного обеспечения.

**Протокол работы программы**

**Лабораторная работа №1.**

**execve**("./main", ["./main"], 0x7fffb628aa98 /\* 30 vars \*/) = 0

brk(NULL) = 0x1269000

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7fbff9622000

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=25258, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 25258, PROT\_READ, MAP\_PRIVATE, 3, 0) = 0x7fbff961b000

**close(3)** = 0

openat(AT\_FDCWD, "/usr/local/lib64/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|0755, st\_size=2530008, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 2543808, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fbff93ad000

mmap(0x7fbff9452000, 1216512, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xa5000) = 0x7fbff9452000

mmap(0x7fbff957b000, 581632, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1ce000) = 0x7fbff957b000

mmap(0x7fbff9609000, 57344, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x25c000) = 0x7fbff9609000

mmap(0x7fbff9617000, 12480, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7fbff9617000

**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=907784, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 909560, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fbff92ce000

mmap(0x7fbff92de000, 471040, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x10000) = 0x7fbff92de000

mmap(0x7fbff9351000, 368640, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x83000) = 0x7fbff9351000

mmap(0x7fbff93ab000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xdc000) = 0x7fbff93ab000

**close(3)**  = 0

openat(AT\_FDCWD, "/usr/local/lib64/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=906528, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 181160, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fbff92a1000

mmap(0x7fbff92a5000, 143360, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000) = 0x7fbff92a5000

mmap(0x7fbff92c8000, 16384, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x27000) = 0x7fbff92c8000

mmap(0x7fbff92cc000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2b000) = 0x7fbff92cc000

**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\0\20t\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

newfstatat(3, "", {st\_mode=S\_IFREG|0755, st\_size=1922136, ...}, 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, 1970000, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fbff90c0000

mmap(0x7fbff90e6000, 1396736, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x26000) = 0x7fbff90e6000

mmap(0x7fbff923b000, 339968, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x17b000) = 0x7fbff923b000

mmap(0x7fbff928e000, 24576, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1ce000) = 0x7fbff928e000

mmap(0x7fbff9294000, 53072, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7fbff9294000

**close(3)**  = 0

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7fbff90be000

arch\_prctl(ARCH\_SET\_FS, 0x7fbff90bf480) = 0

set\_tid\_address(0x7fbff90bf750) = 1651

set\_robust\_list(0x7fbff90bf760, 24) = 0

rseq(0x7fbff90bfda0, 0x20, 0, 0x53053053) = 0

mprotect(0x7fbff928e000, 16384, PROT\_READ) = 0

mprotect(0x7fbff92cc000, 4096, PROT\_READ) = 0

mprotect(0x7fbff93ab000, 4096, PROT\_READ) = 0

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7fbff90bc000

mprotect(0x7fbff9609000, 45056, PROT\_READ) = 0

mprotect(0x404000, 4096, PROT\_READ) = 0

mprotect(0x7fbff9654000, 8192, PROT\_READ) = 0

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

munmap(0x7fbff961b000, 25258) = 0

futex(0x7fbff961773c, FUTEX\_WAKE\_PRIVATE, 2147483647) = 0

getrandom("\xc9\xbb\x38\x95\x2f\x76\xda\xc3", 8, GRND\_NONBLOCK) = 8

brk(NULL) = 0x1269000

brk(0x128a000) = 0x128a000

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

write(1, "Enter file name for child1: ", 28Enter file name for child1: ) = 28

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

read(0, file1

"file1\n", 1024) = 6

**write**(1, "Enter file name for child2: ", 28Enter file name for child2: ) = 28

read(0, file2

"file2\n", 1024) = 6

**openat**(AT\_FDCWD, "file1", O\_RDWR|O\_CREAT|O\_TRUNC, 0666) = 3

**openat**(AT\_FDCWD, "file2", O\_RDWR|O\_CREAT|O\_TRUNC, 0666) = 4

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

**pipe2**([7, 8], 0) = 0

**clone**(child\_stack=NULL, flags=CLONE\_CHILD\_CLEARTID|CLONE\_CHILD\_SETTID|SIGCHLDstrace: Process 1693 attached

, child\_tidptr=0x7fbff90bf750) = 1693

[pid 1693] set\_robust\_list(0x7fbff90bf760, 24 <unfinished ...>

[pid 1651] **clone**(child\_stack=NULL, flags=CLONE\_CHILD\_CLEARTID|CLONE\_CHILD\_SETTID|SIGCHLD <unfinished ...>

[pid 1693] <... set\_robust\_list resumed>) = 0

strace: Process 1694 attached

[pid 1693] close(6 <unfinished ...>

[pid 1651] <... clone resumed>, child\_tidptr=0x7fbff90bf750) = 1694

[pid 1694] set\_robust\_list(0x7fbff90bf760, 24 <unfinished ...>

[pid 1651] **close**(5 <unfinished ...>

[pid 1693] <... close resumed>) = 0

[pid 1651] <... close resumed>) = 0

[pid 1694] <... set\_robust\_list resumed>) = 0

[pid 1651] **close**(7 <unfinished ...>

[pid 1693] **close**(7 <unfinished ...>

[pid 1651] <... close resumed>) = 0

[pid 1694] **close**(8 <unfinished ...>

[pid 1651] **close**(3 <unfinished ...>

[pid 1693] <... close resumed>) = 0

[pid 1651] <... close resumed>) = 0

[pid 1694] <... close resumed>) = 0

[pid 1651] **close**(4 <unfinished ...>

[pid 1693] **close**(8 <unfinished ...>

[pid 1651] <... close resumed>) = 0

[pid 1694] **close**(5 <unfinished ...>

[pid 1651] write(1, "Enter linens. To finish entering"..., 51 <unfinished ...>

Enter linens. To finish entering lines, enter 'q'.

[pid 1693] <... close resumed>) = 0

[pid 1651] <... write resumed>) = 51

[pid 1694] <... close resumed>) = 0

[pid 1651] read(0, <unfinished ...>

[pid 1693] **close**(4 <unfinished ...>

[pid 1694] **close**(6 <unfinished ...>

[pid 1693] <... close resumed>) = 0

[pid 1694] <... close resumed>) = 0

[pid 1693] **dup2**(5, 0 <unfinished ...>

[pid 1694] **close**(3 <unfinished ...>

[pid 1693] <... dup2 resumed>) = 0

[pid 1694] <... close resumed>) = 0

[pid 1693] **dup2**(3, 1 <unfinished ...>

[pid 1694] **dup2**(7, 0 <unfinished ...>

[pid 1693] <... dup2 resumed>) = 1

[pid 1694] <... dup2 resumed>) = 0

[pid 1693] **close**(5 <unfinished ...>

[pid 1694] **dup2**(4, 1 <unfinished ...>

[pid 1693] <... close resumed>) = 0

[pid 1694] <... dup2 resumed>) = 1

[pid 1693] **close**(3 <unfinished ...>

[pid 1694] **close**(7) = 0

[pid 1693] <... close resumed>) = 0

[pid 1694] **close**(4 <unfinished ...>

[pid 1693] **execve**("./child", ["child1"], 0x7ffc67548888 /\* 30 vars \*/ <unfinished ...>

[pid 1694] <... close resumed>) = 0

[pid 1694] **execve**("./child", ["child2"], 0x7ffc67548888 /\* 30 vars \*/) = 0

[pid 1694] brk(NULL) = 0x2101000

[pid 1694] mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f7b3983e000

[pid 1694] access("/etc/ld.so.preload", R\_OK) = -1 ENOENT (No such file or directory)

[pid 1693] <... execve resumed>) = 0

[pid 1694] openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC <unfinished ...>

[pid 1693] brk(NULL <unfinished ...>

[pid 1694] <... openat resumed>) = 3

[pid 1693] <... brk resumed>) = 0x2279000

[pid 1694] newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=25258, ...}, AT\_EMPTY\_PATH) = 0

[pid 1693] mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

[pid 1694] mmap(NULL, 25258, PROT\_READ, MAP\_PRIVATE, 3, 0 <unfinished ...>

[pid 1693] <... mmap resumed>) = 0x7fec8b964000

[pid 1694] <... mmap resumed>) = 0x7f7b39837000

[pid 1694] **close**(3 <unfinished ...>

[pid 1693] access("/etc/ld.so.preload", R\_OK <unfinished ...>

[pid 1694] <... close resumed>) = 0

[pid 1693] <... access resumed>) = -1 ENOENT (No such file or directory)

[pid 1694] openat(AT\_FDCWD, "/usr/local/lib64/libstdc++.so.6", O\_RDONLY|O\_CLOEXEC <unfinished ...>

[pid 1693] openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC <unfinished ...>

[pid 1694] <... openat resumed>) = 3

[pid 1693] <... openat resumed>) = 3

[pid 1694] read(3, <unfinished ...>

[pid 1693] newfstatat(3, "", <unfinished ...>

[pid 1694] <... read resumed>"\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

[pid 1693] <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=25258, ...}, AT\_EMPTY\_PATH) = 0

[pid 1694] newfstatat(3, "", <unfinished ...>

[pid 1693] mmap(NULL, 25258, PROT\_READ, MAP\_PRIVATE, 3, 0 <unfinished ...>

[pid 1694] <... newfstatat resumed>{st\_mode=S\_IFREG|0755, st\_size=2530008, ...}, AT\_EMPTY\_PATH) = 0

[pid 1693] <... mmap resumed>) = 0x7fec8b95d000

[pid 1694] mmap(NULL, 2543808, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

[pid 1693] **close**(3 <unfinished ...>

[pid 1694] <... mmap resumed>) = 0x7f7b395c9000

[pid 1693] <... close resumed>) = 0

[pid 1694] mmap(0x7f7b3966e000, 1216512, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xa5000 <unfinished ...>

[pid 1693] openat(AT\_FDCWD, "/usr/local/lib64/libstdc++.so.6", O\_RDONLY|O\_CLOEXEC <unfinished ...>

[pid 1694] <... mmap resumed>) = 0x7f7b3966e000

[pid 1693] <... openat resumed>) = 3

[pid 1694] mmap(0x7f7b39797000, 581632, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1ce000 <unfinished ...>

[pid 1693] read(3, <unfinished ...>

[pid 1694] <... mmap resumed>) = 0x7f7b39797000

[pid 1693] <... read resumed>"\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

[pid 1694] mmap(0x7f7b39825000, 57344, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x25c000 <unfinished ...>

[pid 1693] newfstatat(3, "", <unfinished ...>

[pid 1694] <... mmap resumed>) = 0x7f7b39825000

[pid 1694] mmap(0x7f7b39833000, 12480, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

[pid 1693] <... newfstatat resumed>{st\_mode=S\_IFREG|0755, st\_size=2530008, ...}, AT\_EMPTY\_PATH) = 0

[pid 1694] <... mmap resumed>) = 0x7f7b39833000

[pid 1693] mmap(NULL, 2543808, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fec8b6ef000

[pid 1694] **close**(3 <unfinished ...>

[pid 1693] mmap(0x7fec8b794000, 1216512, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xa5000 <unfinished ...>

[pid 1694] <... close resumed>) = 0

[pid 1694] openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libm.so.6", O\_RDONLY|O\_CLOEXEC <unfinished ...>

[pid 1693] <... mmap resumed>) = 0x7fec8b794000

[pid 1694] <... openat resumed>) = 3

[pid 1693] mmap(0x7fec8b8bd000, 581632, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1ce000 <unfinished ...>

[pid 1694] read(3, <unfinished ...>

[pid 1693] <... mmap resumed>) = 0x7fec8b8bd000

[pid 1694] <... read resumed>"\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

[pid 1693] mmap(0x7fec8b94b000, 57344, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x25c000 <unfinished ...>

[pid 1694] newfstatat(3, "", <unfinished ...>

[pid 1693] <... mmap resumed>) = 0x7fec8b94b000

[pid 1694] <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=907784, ...}, AT\_EMPTY\_PATH) = 0

[pid 1693] mmap(0x7fec8b959000, 12480, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

[pid 1694] mmap(NULL, 909560, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

[pid 1693] <... mmap resumed>) = 0x7fec8b959000

[pid 1694] <... mmap resumed>) = 0x7f7b394ea000

[pid 1693] **close**(3 <unfinished ...>

[pid 1694] mmap(0x7f7b394fa000, 471040, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x10000 <unfinished ...>

[pid 1693] <... close resumed>) = 0

[pid 1694] <... mmap resumed>) = 0x7f7b394fa000

[pid 1693] openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libm.so.6", O\_RDONLY|O\_CLOEXEC <unfinished ...>

[pid 1694] mmap(0x7f7b3956d000, 368640, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x83000 <unfinished ...>

[pid 1693] <... openat resumed>) = 3

[pid 1694] <... mmap resumed>) = 0x7f7b3956d000

[pid 1693] read(3, <unfinished ...>

[pid 1694] mmap(0x7f7b395c7000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xdc000 <unfinished ...>

[pid 1693] <... read resumed>"\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

[pid 1694] <... mmap resumed>) = 0x7f7b395c7000

[pid 1693] newfstatat(3, "", <unfinished ...>

[pid 1694] **close**(3 <unfinished ...>

[pid 1693] <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=907784, ...}, AT\_EMPTY\_PATH) = 0

[pid 1694] <... close resumed>) = 0

[pid 1693] mmap(NULL, 909560, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

[pid 1694] openat(AT\_FDCWD, "/usr/local/lib64/libgcc\_s.so.1", O\_RDONLY|O\_CLOEXEC <unfinished ...>

[pid 1693] <... mmap resumed>) = 0x7fec8b610000

[pid 1694] <... openat resumed>) = 3

[pid 1693] mmap(0x7fec8b620000, 471040, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x10000 <unfinished ...>

[pid 1694] read(3, <unfinished ...>

[pid 1693] <... mmap resumed>) = 0x7fec8b620000

[pid 1694] <... read resumed>"\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

[pid 1693] mmap(0x7fec8b693000, 368640, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x83000 <unfinished ...>

[pid 1694] newfstatat(3, "", <unfinished ...>

[pid 1693] <... mmap resumed>) = 0x7fec8b693000

[pid 1694] <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=906528, ...}, AT\_EMPTY\_PATH) = 0

[pid 1693] mmap(0x7fec8b6ed000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xdc000 <unfinished ...>

[pid 1694] mmap(NULL, 181160, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

[pid 1693] <... mmap resumed>) = 0x7fec8b6ed000

[pid 1694] <... mmap resumed>) = 0x7f7b394bd000

[pid 1693] **close**(3 <unfinished ...>

[pid 1694] mmap(0x7f7b394c1000, 143360, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000 <unfinished ...>

[pid 1693] <... close resumed>) = 0

[pid 1694] <... mmap resumed>) = 0x7f7b394c1000

[pid 1694] mmap(0x7f7b394e4000, 16384, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x27000 <unfinished ...>

[pid 1693] openat(AT\_FDCWD, "/usr/local/lib64/libgcc\_s.so.1", O\_RDONLY|O\_CLOEXEC <unfinished ...>

[pid 1694] <... mmap resumed>) = 0x7f7b394e4000

[pid 1693] <... openat resumed>) = 3

[pid 1694] mmap(0x7f7b394e8000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2b000 <unfinished ...>

[pid 1693] read(3, <unfinished ...>

[pid 1694] <... mmap resumed>) = 0x7f7b394e8000

[pid 1693] <... read resumed>"\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

[pid 1694] **close**(3 <unfinished ...>

[pid 1693] newfstatat(3, "", <unfinished ...>

[pid 1694] <... close resumed>) = 0

[pid 1693] <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=906528, ...}, AT\_EMPTY\_PATH) = 0

[pid 1694] openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libc.so.6", O\_RDONLY|O\_CLOEXEC <unfinished ...>

[pid 1693] mmap(NULL, 181160, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

[pid 1694] <... openat resumed>) = 3

[pid 1693] <... mmap resumed>) = 0x7fec8b5e3000

[pid 1694] read(3, <unfinished ...>

[pid 1693] mmap(0x7fec8b5e7000, 143360, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000 <unfinished ...>

[pid 1694] <... read resumed>"\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\20t\2\0\0\0\0\0"..., 832) = 832

[pid 1693] <... mmap resumed>) = 0x7fec8b5e7000

[pid 1694] pread64(3, <unfinished ...>

[pid 1693] mmap(0x7fec8b60a000, 16384, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x27000 <unfinished ...>

[pid 1694] <... pread64 resumed>"\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 1693] <... mmap resumed>) = 0x7fec8b60a000

[pid 1694] newfstatat(3, "", <unfinished ...>

[pid 1693] mmap(0x7fec8b60e000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2b000 <unfinished ...>

[pid 1694] <... newfstatat resumed>{st\_mode=S\_IFREG|0755, st\_size=1922136, ...}, AT\_EMPTY\_PATH) = 0

[pid 1693] <... mmap resumed>) = 0x7fec8b60e000

[pid 1694] pread64(3, <unfinished ...>

[pid 1693] **close**(3 <unfinished ...>

[pid 1694] <... pread64 resumed>"\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 1693] <... close resumed>) = 0

[pid 1694] mmap(NULL, 1970000, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

[pid 1693] openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libc.so.6", O\_RDONLY|O\_CLOEXEC <unfinished ...>

[pid 1694] <... mmap resumed>) = 0x7f7b392dc000

[pid 1693] <... openat resumed>) = 3

[pid 1693] read(3, <unfinished ...>

[pid 1694] mmap(0x7f7b39302000, 1396736, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x26000 <unfinished ...>

[pid 1693] <... read resumed>"\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\20t\2\0\0\0\0\0"..., 832) = 832

[pid 1694] <... mmap resumed>) = 0x7f7b39302000

[pid 1693] pread64(3, <unfinished ...>

[pid 1694] mmap(0x7f7b39457000, 339968, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x17b000 <unfinished ...>

[pid 1693] <... pread64 resumed>"\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 1694] <... mmap resumed>) = 0x7f7b39457000

[pid 1693] newfstatat(3, "", <unfinished ...>

[pid 1694] mmap(0x7f7b394aa000, 24576, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1ce000 <unfinished ...>

[pid 1693] <... newfstatat resumed>{st\_mode=S\_IFREG|0755, st\_size=1922136, ...}, AT\_EMPTY\_PATH) = 0

[pid 1694] <... mmap resumed>) = 0x7f7b394aa000

[pid 1693] pread64(3, <unfinished ...>

[pid 1694] mmap(0x7f7b394b0000, 53072, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

[pid 1693] <... pread64 resumed>"\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 1694] <... mmap resumed>) = 0x7f7b394b0000

[pid 1693] mmap(NULL, 1970000, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

[pid 1694] **close**(3 <unfinished ...>

[pid 1693] <... mmap resumed>) = 0x7fec8b402000

[pid 1694] <... close resumed>) = 0

[pid 1693] mmap(0x7fec8b428000, 1396736, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x26000 <unfinished ...>

[pid 1694] mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

[pid 1693] <... mmap resumed>) = 0x7fec8b428000

[pid 1694] <... mmap resumed>) = 0x7f7b392da000

[pid 1693] mmap(0x7fec8b57d000, 339968, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x17b000 <unfinished ...>

[pid 1694] arch\_prctl(ARCH\_SET\_FS, 0x7f7b392db480 <unfinished ...>

[pid 1693] <... mmap resumed>) = 0x7fec8b57d000

[pid 1694] <... arch\_prctl resumed>) = 0

[pid 1693] mmap(0x7fec8b5d0000, 24576, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1ce000 <unfinished ...>

[pid 1694] set\_tid\_address(0x7f7b392db750 <unfinished ...>

[pid 1693] <... mmap resumed>) = 0x7fec8b5d0000

[pid 1694] <... set\_tid\_address resumed>) = 1694

[pid 1693] mmap(0x7fec8b5d6000, 53072, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

[pid 1694] set\_robust\_list(0x7f7b392db760, 24 <unfinished ...>

[pid 1693] <... mmap resumed>) = 0x7fec8b5d6000

[pid 1694] <... set\_robust\_list resumed>) = 0

[pid 1693] **close**(3 <unfinished ...>

[pid 1694] rseq(0x7f7b392dbda0, 0x20, 0, 0x53053053 <unfinished ...>

[pid 1693] <... close resumed>) = 0

[pid 1694] <... rseq resumed>) = 0

[pid 1694] mprotect(0x7f7b394aa000, 16384, PROT\_READ <unfinished ...>

[pid 1693] mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

[pid 1694] <... mprotect resumed>) = 0

[pid 1693] <... mmap resumed>) = 0x7fec8b400000

[pid 1694] mprotect(0x7f7b394e8000, 4096, PROT\_READ <unfinished ...>

[pid 1693] arch\_prctl(ARCH\_SET\_FS, 0x7fec8b401480 <unfinished ...>

[pid 1694] <... mprotect resumed>) = 0

[pid 1693] <... arch\_prctl resumed>) = 0

[pid 1693] set\_tid\_address(0x7fec8b401750 <unfinished ...>

[pid 1694] mprotect(0x7f7b395c7000, 4096, PROT\_READ <unfinished ...>

[pid 1693] <... set\_tid\_address resumed>) = 1693

[pid 1694] <... mprotect resumed>) = 0

[pid 1693] set\_robust\_list(0x7fec8b401760, 24) = 0

[pid 1693] rseq(0x7fec8b401da0, 0x20, 0, 0x53053053) = 0

[pid 1694] mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

[pid 1693] mprotect(0x7fec8b5d0000, 16384, PROT\_READ) = 0

[pid 1694] <... mmap resumed>) = 0x7f7b392d8000

[pid 1693] mprotect(0x7fec8b60e000, 4096, PROT\_READ) = 0

[pid 1693] mprotect(0x7fec8b6ed000, 4096, PROT\_READ <unfinished ...>

[pid 1694] mprotect(0x7f7b39825000, 45056, PROT\_READ <unfinished ...>

[pid 1693] <... mprotect resumed>) = 0

[pid 1694] <... mprotect resumed>) = 0

[pid 1694] mprotect(0x403000, 4096, PROT\_READ) = 0

[pid 1693] mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

[pid 1694] mprotect(0x7f7b39870000, 8192, PROT\_READ <unfinished ...>

[pid 1693] <... mmap resumed>) = 0x7fec8b3fe000

[pid 1694] <... mprotect resumed>) = 0

[pid 1694] prlimit64(0, RLIMIT\_STACK, NULL, {rlim\_cur=8192\*1024, rlim\_max=RLIM64\_INFINITY}) = 0

[pid 1694] munmap(0x7f7b39837000, 25258) = 0

[pid 1693] mprotect(0x7fec8b94b000, 45056, PROT\_READ <unfinished ...>

[pid 1694] futex(0x7f7b3983373c, FUTEX\_WAKE\_PRIVATE, 2147483647 <unfinished ...>

[pid 1693] <... mprotect resumed>) = 0

[pid 1694] <... futex resumed>) = 0

[pid 1693] mprotect(0x403000, 4096, PROT\_READ <unfinished ...>

[pid 1694] getrandom( <unfinished ...>

[pid 1693] <... mprotect resumed>) = 0

[pid 1694] <... getrandom resumed>"\x35\x59\x63\x5b\xfe\xf6\xa8\x8f", 8, GRND\_NONBLOCK) = 8

[pid 1693] mprotect(0x7fec8b996000, 8192, PROT\_READ <unfinished ...>

[pid 1694] brk(NULL <unfinished ...>

[pid 1693] <... mprotect resumed>) = 0

[pid 1694] <... brk resumed>) = 0x2101000

[pid 1693] prlimit64(0, RLIMIT\_STACK, NULL, <unfinished ...>

[pid 1694] brk(0x2122000 <unfinished ...>

[pid 1693] <... prlimit64 resumed>{rlim\_cur=8192\*1024, rlim\_max=RLIM64\_INFINITY}) = 0

[pid 1694] <... brk resumed>) = 0x2122000

[pid 1693] munmap(0x7fec8b95d000, 25258 <unfinished ...>

[pid 1694] newfstatat(0, "", <unfinished ...>

[pid 1693] <... munmap resumed>) = 0

[pid 1694] <... newfstatat resumed>{st\_mode=S\_IFIFO|0600, st\_size=0, ...}, AT\_EMPTY\_PATH) = 0

[pid 1694] read(0, <unfinished ...>

[pid 1693] futex(0x7fec8b95973c, FUTEX\_WAKE\_PRIVATE, 2147483647) = 0

[pid 1693] getrandom("\x88\x71\x0f\xdf\x15\x10\xd0\x33", 8, GRND\_NONBLOCK) = 8

[pid 1693] brk(NULL) = 0x2279000

[pid 1693] brk(0x229a000) = 0x229a000

[pid 1693] newfstatat(0, "", {st\_mode=S\_IFIFO|0600, st\_size=0, ...}, AT\_EMPTY\_PATH) = 0

[pid 1693] read(0, apple

<unfinished ...>

[pid 1651] <... read resumed>"apple\n", 1024) = 6

[pid 1651] **write**(1, "pip2\n", 5pip2

) = 5

[pid 1651] **write**(8, "apple\n", 6) = 6

[pid 1694] <... read resumed>"apple\n", 4096) = 6

[pid 1651] **write**(8, "\n", 1) = 1

[pid 1694] newfstatat(1, "", <unfinished ...>

[pid 1651] read(0, <unfinished ...>

[pid 1694] <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=0, ...}, AT\_EMPTY\_PATH) = 0

[pid 1694] **write**(1, "ppl\n", 4) = 4

[pid 1694] read(0, "\n", 4096) = 1

[pid 1694] read(0, google

<unfinished ...>

[pid 1651] <... read resumed>"google\n", 1024) = 7

[pid 1651] **write**(1, "pip2\n", 5pip2

) = 5

[pid 1651] **write**(8, "google\n", 7) = 7

[pid 1694] <... read resumed>"google\n", 4096) = 7

[pid 1651] **write**(8, "\n", 1) = 1

[pid 1694] **write**(1, "ggl\n", 4 <unfinished ...>

[pid 1651] read(0, <unfinished ...>

[pid 1694] <... write resumed>) = 4

[pid 1694] read(0, "\n", 4096) = 1

[pid 1694] read(0, q

<unfinished ...>

[pid 1651] <... read resumed>"q\n", 1024) = 2

[pid 1651] **write**(6, "q\n", 2) = 2

[pid 1693] <... read resumed>"q\n", 4096) = 2

[pid 1651] **write**(8, "q\n", 2 <unfinished ...>

[pid 1693] lseek(0, -1, SEEK\_CUR <unfinished ...>

[pid 1651] <... write resumed>) = 2

[pid 1694] <... read resumed>"q\n", 4096) = 2

[pid 1693] <... lseek resumed>) = -1 ESPIPE (Illegal seek)

[pid 1651] **close**(6 <unfinished ...>

[pid 1693] exit\_group(0 <unfinished ...>

[pid 1651] <... close resumed>) = 0

[pid 1694] lseek(0, -1, SEEK\_CUR <unfinished ...>

[pid 1651] **close**(8 <unfinished ...>

[pid 1693] <... exit\_group resumed>) = ?

[pid 1651] <... close resumed>) = 0

[pid 1694] <... lseek resumed>) = -1 ESPIPE (Illegal seek)

[pid 1651] **wait4**(1693, <unfinished ...>

[pid 1694] exit\_group(0) = ?

**[pid 1693] +++ exited with 0 +++**

[pid 1651] <... wait4 resumed>[{WIFEXITED(s) && WEXITSTATUS(s) == 0}], 0, NULL) = 1693

[pid 1651] --- SIGCHLD {si\_signo=SIGCHLD, si\_code=CLD\_EXITED, si\_pid=1693, si\_uid=0, si\_status=0, si\_utime=0, si\_stime=1 /\* 0.01 s \*/} ---

[pid 1651] **wait4**(1694, <unfinished ...>

[pid 1694] **+++ exited with 0 +++**

<... wait4 resumed>[{WIFEXITED(s) && WEXITSTATUS(s) == 0}], 0, NULL) = 1694

--- SIGCHLD {si\_signo=SIGCHLD, si\_code=CLD\_EXITED, si\_pid=1694, si\_uid=0, si\_status=0, si\_utime=0, si\_stime=0} ---

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

exit\_group(0) = ?

**+++ exited with 0 +++**

**Лабораторная работа №2.**

execve("./lab2\_exe", ["./lab2\_exe", "2", "f"], 0x7fff5ab2d628 /\* 30 vars \*/) = 0

brk(NULL) = 0x56413a55e000

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f320048c000

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=26022, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 26022, PROT\_READ, MAP\_PRIVATE, 3, 0) = 0x7f3200485000

close(3) = 0

openat(AT\_FDCWD, "/usr/local/lib64/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|0755, st\_size=2530008, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 2543808, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f3200217000

mmap(0x7f32002bc000, 1216512, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xa5000) = 0x7f32002bc000

mmap(0x7f32003e5000, 581632, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1ce000) = 0x7f32003e5000

mmap(0x7f3200473000, 57344, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x25c000) = 0x7f3200473000

mmap(0x7f3200481000, 12480, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7f3200481000

close(3) = 0

openat(AT\_FDCWD, "/usr/local/lib64/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=906528, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 181160, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f32001ea000

mmap(0x7f32001ee000, 143360, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000) = 0x7f32001ee000

mmap(0x7f3200211000, 16384, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x27000) = 0x7f3200211000

mmap(0x7f3200215000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2b000) = 0x7f3200215000

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\0\20t\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

newfstatat(3, "", {st\_mode=S\_IFREG|0755, st\_size=1922136, ...}, 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, 1970000, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f3200009000

mmap(0x7f320002f000, 1396736, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x26000) = 0x7f320002f000

mmap(0x7f3200184000, 339968, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x17b000) = 0x7f3200184000

mmap(0x7f32001d7000, 24576, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1ce000) = 0x7f32001d7000

mmap(0x7f32001dd000, 53072, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7f32001dd000

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=907784, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 909560, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f31fff2a000

mmap(0x7f31fff3a000, 471040, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x10000) = 0x7f31fff3a000

mmap(0x7f31fffad000, 368640, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x83000) = 0x7f31fffad000

mmap(0x7f3200007000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xdc000) = 0x7f3200007000

close(3) = 0

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f31fff28000

arch\_prctl(ARCH\_SET\_FS, 0x7f31fff29480) = 0

set\_tid\_address(0x7f31fff29750) = 5012

set\_robust\_list(0x7f31fff29760, 24) = 0

rseq(0x7f31fff29da0, 0x20, 0, 0x53053053) = 0

mprotect(0x7f32001d7000, 16384, PROT\_READ) = 0

mprotect(0x7f3200007000, 4096, PROT\_READ) = 0

mprotect(0x7f3200215000, 4096, PROT\_READ) = 0

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f31fff26000

mprotect(0x7f3200473000, 45056, PROT\_READ) = 0

mprotect(0x564138a7c000, 4096, PROT\_READ) = 0

mprotect(0x7f32004be000, 8192, PROT\_READ) = 0

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

munmap(0x7f3200485000, 26022) = 0

futex(0x7f320048173c, FUTEX\_WAKE\_PRIVATE, 2147483647) = 0

getrandom("\xe0\x21\xad\x8c\x53\xe4\x5f\xf1", 8, GRND\_NONBLOCK) = 8

brk(NULL) = 0x56413a55e000

brk(0x56413a57f000) = 0x56413a57f000

openat(AT\_FDCWD, "test.txt", O\_RDONLY) = 3

openat(AT\_FDCWD, "out.txt", O\_WRONLY|O\_CREAT|O\_TRUNC, 0666) = 4

read(3, "2\n3 3\n1.2 2.7 3.3\n4.1 5.4 6.8\n7."..., 8191) = 64

read(3, "", 8191) = 0

rt\_sigaction(SIGRT\_1, {sa\_handler=0x7f320008f6a0, sa\_mask=[], sa\_flags=SA\_RESTORER|SA\_ONSTACK|SA\_RESTART|SA\_SIGINFO, sa\_restorer=0x7f3200045050}, 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) = 0x7f31ff725000

mprotect(0x7f31ff726000, 8388608, PROT\_READ|PROT\_WRITE) = 0

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

**clone3**({flags=CLONE\_VM|CLONE\_FS|CLONE\_FILES|CLONE\_SIGHAND|CLONE\_THREAD|CLONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID|CLONE\_CHILD\_CLEARTID, child\_tid=0x7f31fff25990, parent\_tid=0x7f31fff25990, exit\_signal=0, stack=0x7f31ff725000, stack\_size=0x7fff80, tls=0x7f31fff256c0}strace: Process 5013 attached

=> {parent\_tid=[5013]}, 88) = 5013

[pid 5013] rseq(0x7f31fff25fe0, 0x20, 0, 0x53053053 <unfinished ...>

[pid 5012] rt\_sigprocmask(SIG\_SETMASK, [], <unfinished ...>

[pid 5013] <... rseq resumed>) = 0

[pid 5012] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 5013] set\_robust\_list(0x7f31fff259a0, 24 <unfinished ...>

[pid 5012] mmap(NULL, 8392704, PROT\_NONE, MAP\_PRIVATE|MAP\_ANONYMOUS|MAP\_STACK, -1, 0 <unfinished ...>

[pid 5013] <... set\_robust\_list resumed>) = 0

[pid 5012] <... mmap resumed>) = 0x7f31fef24000

[pid 5013] rt\_sigprocmask(SIG\_SETMASK, [], <unfinished ...>

[pid 5012] mprotect(0x7f31fef25000, 8388608, PROT\_READ|PROT\_WRITE <unfinished ...>

[pid 5013] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 5012] <... mprotect resumed>) = 0

[pid 5013] rt\_sigprocmask(SIG\_BLOCK, ~[RT\_1], <unfinished ...>

[pid 5012] rt\_sigprocmask(SIG\_BLOCK, ~[], <unfinished ...>

[pid 5013] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 5012] <... rt\_sigprocmask resumed>[], 8) = 0

[pid 5013] madvise(0x7f31ff725000, 8368128, MADV\_DONTNEED <unfinished ...>

[pid 5012] **clone3**({flags=CLONE\_VM|CLONE\_FS|CLONE\_FILES|CLONE\_SIGHAND|CLONE\_THREAD|CLONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID|CLONE\_CHILD\_CLEARTID, child\_tid=0x7f31ff724990, parent\_tid=0x7f31ff724990, exit\_signal=0, stack=0x7f31fef24000, stack\_size=0x7fff80, tls=0x7f31ff7246c0} <unfinished ...>

[pid 5013] <... madvise resumed>) = 0

[pid 5013] exit(0strace: Process 5014 attached

<unfinished ...>

[pid 5012] <... clone3 resumed> => {parent\_tid=[5014]}, 88) = 5014

[pid 5013] <... exit resumed>) = ?

[pid 5012] rt\_sigprocmask(SIG\_SETMASK, [], <unfinished ...>

[pid 5014] rseq(0x7f31ff724fe0, 0x20, 0, 0x53053053 <unfinished ...>

[pid 5012] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 5013] +++ exited with 0 +++

[pid 5014] <... rseq resumed>) = 0

[pid 5012] **futex**(0x7f31ff724990, FUTEX\_WAIT\_BITSET|FUTEX\_CLOCK\_REALTIME, 5014, NULL, FUTEX\_BITSET\_MATCH\_ANY <unfinished ...>

[pid 5014] set\_robust\_list(0x7f31ff7249a0, 24) = 0

[pid 5014] rt\_sigprocmask(SIG\_SETMASK, [], NULL, 8) = 0

[pid 5014] rt\_sigprocmask(SIG\_BLOCK, ~[RT\_1], NULL, 8) = 0

[pid 5014] madvise(0x7f31fef24000, 8368128, MADV\_DONTNEED) = 0

[pid 5014] exit(0) = ?

[pid 5012] <... futex resumed>) = 0

[pid 5014] +++ exited with 0 +++

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

**clone3**({flags=CLONE\_VM|CLONE\_FS|CLONE\_FILES|CLONE\_SIGHAND|CLONE\_THREAD|CLONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID|CLONE\_CHILD\_CLEARTID, child\_tid=0x7f31ff724990, parent\_tid=0x7f31ff724990, exit\_signal=0, stack=0x7f31fef24000, stack\_size=0x7fff80, tls=0x7f31ff7246c0}strace: Process 5015 attached

=> {parent\_tid=[5015]}, 88) = 5015

[pid 5015] rseq(0x7f31ff724fe0, 0x20, 0, 0x53053053 <unfinished ...>

[pid 5012] rt\_sigprocmask(SIG\_SETMASK, [], <unfinished ...>

[pid 5015] <... rseq resumed>) = 0

[pid 5012] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 5015] set\_robust\_list(0x7f31ff7249a0, 24 <unfinished ...>

[pid 5012] rt\_sigprocmask(SIG\_BLOCK, ~[], <unfinished ...>

[pid 5015] <... set\_robust\_list resumed>) = 0

[pid 5012] <... rt\_sigprocmask resumed>[], 8) = 0

[pid 5015] rt\_sigprocmask(SIG\_SETMASK, [], <unfinished ...>

[pid 5012] **clone3**({flags=CLONE\_VM|CLONE\_FS|CLONE\_FILES|CLONE\_SIGHAND|CLONE\_THREAD|CLONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID|CLONE\_CHILD\_CLEARTID, child\_tid=0x7f31fff25990, parent\_tid=0x7f31fff25990, exit\_signal=0, stack=0x7f31ff725000, stack\_size=0x7fff80, tls=0x7f31fff256c0} <unfinished ...>

[pid 5015] <... rt\_sigprocmask resumed>NULL, 8) = 0

strace: Process 5016 attached

[pid 5015] rt\_sigprocmask(SIG\_BLOCK, ~[RT\_1], <unfinished ...>

[pid 5012] <... clone3 resumed> => {parent\_tid=[5016]}, 88) = 5016

[pid 5016] rseq(0x7f31fff25fe0, 0x20, 0, 0x53053053 <unfinished ...>

[pid 5012] rt\_sigprocmask(SIG\_SETMASK, [], <unfinished ...>

[pid 5015] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 5012] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 5016] <... rseq resumed>) = 0

[pid 5012] **futex**(0x7f31ff724990, FUTEX\_WAIT\_BITSET|FUTEX\_CLOCK\_REALTIME, 5015, NULL, FUTEX\_BITSET\_MATCH\_ANY <unfinished ...>

[pid 5015] madvise(0x7f31fef24000, 8368128, MADV\_DONTNEED <unfinished ...>

[pid 5016] set\_robust\_list(0x7f31fff259a0, 24 <unfinished ...>

[pid 5015] <... madvise resumed>) = 0

[pid 5016] <... set\_robust\_list resumed>) = 0

[pid 5015] exit(0 <unfinished ...>

[pid 5016] rt\_sigprocmask(SIG\_SETMASK, [], <unfinished ...>

[pid 5015] <... exit resumed>) = ?

[pid 5016] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 5015] +++ exited with 0 +++

[pid 5012] <... **futex** resumed>) = 0

[pid 5016] rt\_sigprocmask(SIG\_BLOCK, ~[RT\_1], <unfinished ...>

[pid 5012] **futex**(0x7f31fff25990, FUTEX\_WAIT\_BITSET|FUTEX\_CLOCK\_REALTIME, 5016, NULL, FUTEX\_BITSET\_MATCH\_ANY <unfinished ...>

[pid 5016] <... rt\_sigprocmask resumed>NULL, 8) = 0

[pid 5016] madvise(0x7f31ff725000, 8368128, MADV\_DONTNEED) = 0

[pid 5016] **exit**(0) = ?

[pid 5012] <... **futex resumed**>) = 0

[pid 5016] +++ exited with 0 +++

**write**(4, "3 3\n1.2 2.7 3.3\n4.1 5.4 6.8\n7.2 "..., 40) = 40

**close**(4) = 0

**close**(3) = 0

exit\_group(0) = ?

+++ exited with 0 +++

**Лабораторная работа №3.**

execve("./main", ["./main"], 0x7ffde4631ef8 /\* 25 vars \*/) = 0

brk(NULL) = 0x1c47000

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f380a4c6000

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=26022, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 26022, PROT\_READ, MAP\_PRIVATE, 3, 0) = 0x7f380a4bf000

close(3) = 0

openat(AT\_FDCWD, "/usr/local/lib64/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|0755, st\_size=2530008, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 2543808, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f380a251000

mmap(0x7f380a2f6000, 1216512, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xa5000) = 0x7f380a2f6000

mmap(0x7f380a41f000, 581632, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1ce000) = 0x7f380a41f000

mmap(0x7f380a4ad000, 57344, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x25c000) = 0x7f380a4ad000

mmap(0x7f380a4bb000, 12480, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7f380a4bb000

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=907784, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 909560, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f380a172000

mmap(0x7f380a182000, 471040, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x10000) = 0x7f380a182000

mmap(0x7f380a1f5000, 368640, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x83000) = 0x7f380a1f5000

mmap(0x7f380a24f000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xdc000) = 0x7f380a24f000

close(3) = 0

openat(AT\_FDCWD, "/usr/local/lib64/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=906528, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 181160, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f380a145000

mmap(0x7f380a149000, 143360, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000) = 0x7f380a149000

mmap(0x7f380a16c000, 16384, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x27000) = 0x7f380a16c000

mmap(0x7f380a170000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2b000) = 0x7f380a170000

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\0\20t\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

newfstatat(3, "", {st\_mode=S\_IFREG|0755, st\_size=1922136, ...}, 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, 1970000, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f3809f64000

mmap(0x7f3809f8a000, 1396736, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x26000) = 0x7f3809f8a000

mmap(0x7f380a0df000, 339968, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x17b000) = 0x7f380a0df000

mmap(0x7f380a132000, 24576, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1ce000) = 0x7f380a132000

mmap(0x7f380a138000, 53072, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7f380a138000

close(3) = 0

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f3809f62000

arch\_prctl(ARCH\_SET\_FS, 0x7f3809f63480) = 0

set\_tid\_address(0x7f3809f63750) = 44944

set\_robust\_list(0x7f3809f63760, 24) = 0

rseq(0x7f3809f63da0, 0x20, 0, 0x53053053) = 0

mprotect(0x7f380a132000, 16384, PROT\_READ) = 0

mprotect(0x7f380a170000, 4096, PROT\_READ) = 0

mprotect(0x7f380a24f000, 4096, PROT\_READ) = 0

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f3809f60000

mprotect(0x7f380a4ad000, 45056, PROT\_READ) = 0

mprotect(0x403000, 4096, PROT\_READ) = 0

mprotect(0x7f380a4f8000, 8192, PROT\_READ) = 0

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

munmap(0x7f380a4bf000, 26022) = 0

futex(0x7f380a4bb73c, FUTEX\_WAKE\_PRIVATE, 2147483647) = 0

getrandom("\x9a\xad\xf9\x23\x01\x84\xba\xbd", 8, GRND\_NONBLOCK) = 8

brk(NULL) = 0x1c47000

brk(0x1c68000) = 0x1c68000

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

write(1, "Enter file name for child1: ", 28Enter file name for child1: ) = 28

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

read(0, pop1

"pop1\n", 1024) = 5

write(1, "Enter file name for child2: ", 28Enter file name for child2: ) = 28

read(0, pop2

"pop2\n", 1024) = 5

write(1, "All good\n", 9All good

) = 9

**openat(AT\_FDCWD, "/dev/shm/OS1", O\_RDWR|O\_CREAT|O\_NOFOLLOW|O\_CLOEXEC, 0666) = 3**

**ftruncate(3, 4096) = 0**

**mmap(NULL, 4096, PROT\_WRITE, MAP\_SHARED, 3, 0) = 0x7f380a4c5000**

**openat(AT\_FDCWD, "/dev/shm/OS2", O\_RDWR|O\_CREAT|O\_NOFOLLOW|O\_CLOEXEC, 0666) = 4**

**ftruncate(4, 4096) = 0**

**mmap(NULL, 4096, PROT\_WRITE, MAP\_SHARED, 4, 0) = 0x7f380a4c4000**

getrandom("\x65\xf7\x67\x87\x0b\x2e\x40\x33", 8, GRND\_NONBLOCK) = 8

newfstatat(AT\_FDCWD, "/dev/shm/sem.bUgla0", 0x7ffd36d2c3e0, AT\_SYMLINK\_NOFOLLOW) = -1 ENOENT (No such file or directory)

openat(AT\_FDCWD, "/dev/shm/sem.bUgla0", O\_RDWR|O\_CREAT|O\_EXCL, 0666) = 5

write(5, "\0\0\0\0\0\0\0\0\200\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0", 32) = 32

mmap(NULL, 32, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 5, 0) = 0x7f380a4c3000

link("/dev/shm/sem.bUgla0", "/dev/shm/sem.sem1") = 0

newfstatat(5, "", {st\_mode=S\_IFREG|0644, st\_size=32, ...}, AT\_EMPTY\_PATH) = 0

unlink("/dev/shm/sem.bUgla0") = 0

close(5) = 0

getrandom("\xae\x54\x5a\x07\x83\x17\x67\xcc", 8, GRND\_NONBLOCK) = 8

newfstatat(AT\_FDCWD, "/dev/shm/sem.Iowi94", 0x7ffd36d2c3e0, AT\_SYMLINK\_NOFOLLOW) = -1 ENOENT (No such file or directory)

openat(AT\_FDCWD, "/dev/shm/sem.Iowi94", O\_RDWR|O\_CREAT|O\_EXCL, 0666) = 5

write(5, "\0\0\0\0\0\0\0\0\200\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0", 32) = 32

mmap(NULL, 32, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 5, 0) = 0x7f380a4c2000

link("/dev/shm/sem.Iowi94", "/dev/shm/sem.sem2") = 0

newfstatat(5, "", {st\_mode=S\_IFREG|0644, st\_size=32, ...}, AT\_EMPTY\_PATH) = 0

unlink("/dev/shm/sem.Iowi94") = 0

close(5) = 0

**clone(child\_stack=NULL, flags=CLONE\_CHILD\_CLEARTID|CLONE\_CHILD\_SETTID|SIGCHLDstrace: Process 45042 attached**

**, child\_tidptr=0x7f3809f63750) = 45042**

[pid 45042] set\_robust\_list(0x7f3809f63760, 24 <unfinished ...>

**[pid 44944] clone(child\_stack=NULL, flags=CLONE\_CHILD\_CLEARTID|CLONE\_CHILD\_SETTID|SIGCHLD <unfinished ...>**

[pid 45042] <... set\_robust\_list resumed>) = 0

strace: Process 45043 attached

**[pid 45042] execve("./child", ["child1", "pop1", "/sem1", "OS1"], 0x7ffd36d2c958 /\* 25 vars \*/ <unfinished ...>**

**[pid 44944] <... clone resumed>, child\_tidptr=0x7f3809f63750) = 45043**

[pid 45043] set\_robust\_list(0x7f3809f63760, 24 <unfinished ...>

[pid 44944] (1, "Enter linens. To finish entering"..., 52 <unfinished ...>

[pid 45043] <... set\_robust\_list resumed>) = 0

Enter linens. To finish entering lines, enter '!q'.

[pid 44944] <... write resumed>) = 52

**[pid 45043] execve("./child", ["child2", "pop2", "/sem2", "OS2"], 0x7ffd36d2c958 /\* 25 vars \*/ <unfinished ...>**

[pid 44944] read(0, <unfinished ...>

[pid 45042] <... execve resumed>) = 0

[pid 45043] <... execve resumed>) = 0

[pid 45042] brk(NULL <unfinished ...>

[pid 45043] brk(NULL) = 0x1d06000

[pid 45042] <... brk resumed>) = 0x9b6000

[pid 45042] mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

[pid 45043] mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

[pid 45042] <... mmap resumed>) = 0x7f17f3bc1000

[pid 45043] <... mmap resumed>) = 0x7fb4683be000

[pid 45042] access("/etc/ld.so.preload", R\_OK <unfinished ...>

[pid 45043] access("/etc/ld.so.preload", R\_OK) = -1 ENOENT (No such file or directory)

[pid 45042] <... access resumed>) = -1 ENOENT (No such file or directory)

[pid 45042] openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC <unfinished ...>

[pid 45043] openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC <unfinished ...>

[pid 45042] <... openat resumed>) = 3

[pid 45043] <... openat resumed>) = 3

[pid 45042] newfstatat(3, "", <unfinished ...>

[pid 45043] newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=26022, ...}, AT\_EMPTY\_PATH) = 0

[pid 45042] <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=26022, ...}, AT\_EMPTY\_PATH) = 0

[pid 45043] mmap(NULL, 26022, PROT\_READ, MAP\_PRIVATE, 3, 0 <unfinished ...>

[pid 45042] mmap(NULL, 26022, PROT\_READ, MAP\_PRIVATE, 3, 0 <unfinished ...>

[pid 45043] <... mmap resumed>) = 0x7fb4683b7000

[pid 45042] <... mmap resumed>) = 0x7f17f3bba000

[pid 45043] close(3) = 0

[pid 45042] close(3 <unfinished ...>

[pid 45043] openat(AT\_FDCWD, "/usr/local/lib64/libstdc++.so.6", O\_RDONLY|O\_CLOEXEC) = 3

[pid 45042] <... close resumed>) = 0

[pid 45043] read(3, <unfinished ...>

[pid 45042] openat(AT\_FDCWD, "/usr/local/lib64/libstdc++.so.6", O\_RDONLY|O\_CLOEXEC <unfinished ...>

[pid 45043] <... read resumed>"\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

[pid 45042] <... openat resumed>) = 3

[pid 45043] newfstatat(3, "", <unfinished ...>

[pid 45042] read(3, <unfinished ...>

[pid 45043] <... newfstatat resumed>{st\_mode=S\_IFREG|0755, st\_size=2530008, ...}, AT\_EMPTY\_PATH) = 0

[pid 45042] <... read resumed>"\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

[pid 45043] mmap(NULL, 2543808, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

[pid 45042] newfstatat(3, "", <unfinished ...>

[pid 45043] <... mmap resumed>) = 0x7fb468149000

[pid 45042] <... newfstatat resumed>{st\_mode=S\_IFREG|0755, st\_size=2530008, ...}, AT\_EMPTY\_PATH) = 0

[pid 45043] mmap(0x7fb4681ee000, 1216512, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xa5000 <unfinished ...>

[pid 45042] mmap(NULL, 2543808, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

[pid 45043] <... mmap resumed>) = 0x7fb4681ee000

[pid 45043] mmap(0x7fb468317000, 581632, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1ce000 <unfinished ...>

[pid 45042] <... mmap resumed>) = 0x7f17f394c000

[pid 45042] mmap(0x7f17f39f1000, 1216512, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xa5000 <unfinished ...>

[pid 45043] <... mmap resumed>) = 0x7fb468317000

[pid 45042] <... mmap resumed>) = 0x7f17f39f1000

[pid 45043] mmap(0x7fb4683a5000, 57344, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x25c000 <unfinished ...>

[pid 45042] mmap(0x7f17f3b1a000, 581632, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1ce000 <unfinished ...>

[pid 45043] <... mmap resumed>) = 0x7fb4683a5000

[pid 45042] <... mmap resumed>) = 0x7f17f3b1a000

[pid 45043] mmap(0x7fb4683b3000, 12480, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

[pid 45042] mmap(0x7f17f3ba8000, 57344, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x25c000 <unfinished ...>

[pid 45043] <... mmap resumed>) = 0x7fb4683b3000

[pid 45042] <... mmap resumed>) = 0x7f17f3ba8000

[pid 45043] close(3 <unfinished ...>

[pid 45042] mmap(0x7f17f3bb6000, 12480, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

[pid 45043] <... close resumed>) = 0

[pid 45042] <... mmap resumed>) = 0x7f17f3bb6000

[pid 45043] openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libm.so.6", O\_RDONLY|O\_CLOEXEC <unfinished ...>

[pid 45042] close(3 <unfinished ...>

[pid 45043] <... openat resumed>) = 3

[pid 45042] <... close resumed>) = 0

[pid 45043] read(3, <unfinished ...>

[pid 45042] openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libm.so.6", O\_RDONLY|O\_CLOEXEC <unfinished ...>

[pid 45043] <... read resumed>"\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

[pid 45042] <... openat resumed>) = 3

[pid 45043] newfstatat(3, "", <unfinished ...>

[pid 45042] read(3, <unfinished ...>

[pid 45043] <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=907784, ...}, AT\_EMPTY\_PATH) = 0

[pid 45042] <... read resumed>"\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

[pid 45043] mmap(NULL, 909560, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

[pid 45042] newfstatat(3, "", <unfinished ...>

[pid 45043] <... mmap resumed>) = 0x7fb46806a000

[pid 45042] <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=907784, ...}, AT\_EMPTY\_PATH) = 0

[pid 45043] mmap(0x7fb46807a000, 471040, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x10000 <unfinished ...>

[pid 45042] mmap(NULL, 909560, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

[pid 45043] <... mmap resumed>) = 0x7fb46807a000

[pid 45042] <... mmap resumed>) = 0x7f17f386d000

[pid 45043] mmap(0x7fb4680ed000, 368640, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x83000 <unfinished ...>

[pid 45042] mmap(0x7f17f387d000, 471040, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x10000 <unfinished ...>

[pid 45043] <... mmap resumed>) = 0x7fb4680ed000

[pid 45042] <... mmap resumed>) = 0x7f17f387d000

[pid 45043] mmap(0x7fb468147000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xdc000 <unfinished ...>

[pid 45042] mmap(0x7f17f38f0000, 368640, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x83000 <unfinished ...>

[pid 45043] <... mmap resumed>) = 0x7fb468147000

[pid 45042] <... mmap resumed>) = 0x7f17f38f0000

[pid 45043] close(3 <unfinished ...>

[pid 45042] mmap(0x7f17f394a000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xdc000 <unfinished ...>

[pid 45043] <... close resumed>) = 0

[pid 45042] <... mmap resumed>) = 0x7f17f394a000

[pid 45043] openat(AT\_FDCWD, "/usr/local/lib64/libgcc\_s.so.1", O\_RDONLY|O\_CLOEXEC <unfinished ...>

[pid 45042] close(3 <unfinished ...>

[pid 45043] <... openat resumed>) = 3

[pid 45042] <... close resumed>) = 0

[pid 45043] read(3, <unfinished ...>

[pid 45042] openat(AT\_FDCWD, "/usr/local/lib64/libgcc\_s.so.1", O\_RDONLY|O\_CLOEXEC <unfinished ...>

[pid 45043] <... read resumed>"\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

[pid 45042] <... openat resumed>) = 3

[pid 45043] newfstatat(3, "", <unfinished ...>

[pid 45042] read(3, <unfinished ...>

[pid 45043] <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=906528, ...}, AT\_EMPTY\_PATH) = 0

[pid 45042] <... read resumed>"\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

[pid 45043] mmap(NULL, 181160, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fb46803d000

[pid 45042] newfstatat(3, "", <unfinished ...>

[pid 45043] mmap(0x7fb468041000, 143360, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000) = 0x7fb468041000

[pid 45042] <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=906528, ...}, AT\_EMPTY\_PATH) = 0

[pid 45043] mmap(0x7fb468064000, 16384, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x27000) = 0x7fb468064000

[pid 45042] mmap(NULL, 181160, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

[pid 45043] mmap(0x7fb468068000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2b000) = 0x7fb468068000

[pid 45042] <... mmap resumed>) = 0x7f17f3840000

[pid 45043] close(3 <unfinished ...>

[pid 45042] mmap(0x7f17f3844000, 143360, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000 <unfinished ...>

[pid 45043] <... close resumed>) = 0

[pid 45042] <... mmap resumed>) = 0x7f17f3844000

[pid 45043] openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libc.so.6", O\_RDONLY|O\_CLOEXEC <unfinished ...>

[pid 45042] mmap(0x7f17f3867000, 16384, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x27000 <unfinished ...>

[pid 45043] <... openat resumed>) = 3

[pid 45043] read(3, <unfinished ...>

[pid 45042] <... mmap resumed>) = 0x7f17f3867000

[pid 45043] <... read resumed>"\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\20t\2\0\0\0\0\0"..., 832) = 832

[pid 45042] mmap(0x7f17f386b000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2b000 <unfinished ...>

[pid 45043] pread64(3, <unfinished ...>

[pid 45042] <... mmap resumed>) = 0x7f17f386b000

[pid 45043] <... pread64 resumed>"\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 45042] close(3 <unfinished ...>

[pid 45043] newfstatat(3, "", <unfinished ...>

[pid 45042] <... close resumed>) = 0

[pid 45043] <... newfstatat resumed>{st\_mode=S\_IFREG|0755, st\_size=1922136, ...}, AT\_EMPTY\_PATH) = 0

[pid 45042] openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libc.so.6", O\_RDONLY|O\_CLOEXEC <unfinished ...>

[pid 45043] pread64(3, <unfinished ...>

[pid 45042] <... openat resumed>) = 3

[pid 45043] <... pread64 resumed>"\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 45042] read(3, <unfinished ...>

[pid 45043] mmap(NULL, 1970000, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

[pid 45042] <... read resumed>"\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\20t\2\0\0\0\0\0"..., 832) = 832

[pid 45043] <... mmap resumed>) = 0x7fb467e5c000

[pid 45042] pread64(3, <unfinished ...>

[pid 45043] mmap(0x7fb467e82000, 1396736, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x26000 <unfinished ...>

[pid 45042] <... pread64 resumed>"\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 45043] <... mmap resumed>) = 0x7fb467e82000

[pid 45042] newfstatat(3, "", <unfinished ...>

[pid 45043] mmap(0x7fb467fd7000, 339968, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x17b000 <unfinished ...>

[pid 45042] <... newfstatat resumed>{st\_mode=S\_IFREG|0755, st\_size=1922136, ...}, AT\_EMPTY\_PATH) = 0

[pid 45043] <... mmap resumed>) = 0x7fb467fd7000

[pid 45042] pread64(3, <unfinished ...>

[pid 45043] mmap(0x7fb46802a000, 24576, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1ce000 <unfinished ...>

[pid 45042] <... pread64 resumed>"\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 45043] <... mmap resumed>) = 0x7fb46802a000

[pid 45043] mmap(0x7fb468030000, 53072, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

[pid 45042] mmap(NULL, 1970000, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

[pid 45043] <... mmap resumed>) = 0x7fb468030000

[pid 45043] close(3 <unfinished ...>

[pid 45042] <... mmap resumed>) = 0x7f17f365f000

[pid 45043] <... close resumed>) = 0

[pid 45042] mmap(0x7f17f3685000, 1396736, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x26000 <unfinished ...>

[pid 45043] mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

[pid 45042] <... mmap resumed>) = 0x7f17f3685000

[pid 45043] <... mmap resumed>) = 0x7fb467e5a000

[pid 45042] mmap(0x7f17f37da000, 339968, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x17b000 <unfinished ...>

[pid 45043] arch\_prctl(ARCH\_SET\_FS, 0x7fb467e5b480 <unfinished ...>

[pid 45042] <... mmap resumed>) = 0x7f17f37da000

[pid 45043] <... arch\_prctl resumed>) = 0

[pid 45042] mmap(0x7f17f382d000, 24576, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1ce000 <unfinished ...>

[pid 45043] set\_tid\_address(0x7fb467e5b750 <unfinished ...>

[pid 45042] <... mmap resumed>) = 0x7f17f382d000

[pid 45043] <... set\_tid\_address resumed>) = 45043

[pid 45042] mmap(0x7f17f3833000, 53072, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7f17f3833000

[pid 45043] set\_robust\_list(0x7fb467e5b760, 24 <unfinished ...>

[pid 45042] close(3) = 0

[pid 45043] <... set\_robust\_list resumed>) = 0

[pid 45042] mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

[pid 45043] rseq(0x7fb467e5bda0, 0x20, 0, 0x53053053 <unfinished ...>

[pid 45042] <... mmap resumed>) = 0x7f17f365d000

[pid 45043] <... rseq resumed>) = 0

[pid 45042] arch\_prctl(ARCH\_SET\_FS, 0x7f17f365e480) = 0

[pid 45042] set\_tid\_address(0x7f17f365e750) = 45042

[pid 45043] mprotect(0x7fb46802a000, 16384, PROT\_READ <unfinished ...>

[pid 45042] set\_robust\_list(0x7f17f365e760, 24 <unfinished ...>

[pid 45043] <... mprotect resumed>) = 0

[pid 45043] mprotect(0x7fb468068000, 4096, PROT\_READ <unfinished ...>

[pid 45042] <... set\_robust\_list resumed>) = 0

[pid 45043] <... mprotect resumed>) = 0

[pid 45043] mprotect(0x7fb468147000, 4096, PROT\_READ <unfinished ...>

[pid 45042] rseq(0x7f17f365eda0, 0x20, 0, 0x53053053 <unfinished ...>

[pid 45043] <... mprotect resumed>) = 0

[pid 45042] <... rseq resumed>) = 0

[pid 45042] mprotect(0x7f17f382d000, 16384, PROT\_READ) = 0

[pid 45043] mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

[pid 45042] mprotect(0x7f17f386b000, 4096, PROT\_READ <unfinished ...>

[pid 45043] <... mmap resumed>) = 0x7fb467e58000

[pid 45042] <... mprotect resumed>) = 0

[pid 45042] mprotect(0x7f17f394a000, 4096, PROT\_READ <unfinished ...>

[pid 45043] mprotect(0x7fb4683a5000, 45056, PROT\_READ <unfinished ...>

[pid 45042] <... mprotect resumed>) = 0

[pid 45043] <... mprotect resumed>) = 0

[pid 45043] mprotect(0x404000, 4096, PROT\_READ <unfinished ...>

[pid 45042] mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

[pid 45043] <... mprotect resumed>) = 0

[pid 45042] <... mmap resumed>) = 0x7f17f365b000

[pid 45043] mprotect(0x7fb4683f0000, 8192, PROT\_READ) = 0

[pid 45042] mprotect(0x7f17f3ba8000, 45056, PROT\_READ) = 0

[pid 45043] prlimit64(0, RLIMIT\_STACK, NULL, <unfinished ...>

[pid 45042] mprotect(0x404000, 4096, PROT\_READ <unfinished ...>

[pid 45043] <... prlimit64 resumed>{rlim\_cur=8192\*1024, rlim\_max=RLIM64\_INFINITY}) = 0

[pid 45042] <... mprotect resumed>) = 0

[pid 45043] munmap(0x7fb4683b7000, 26022 <unfinished ...>

[pid 45042] mprotect(0x7f17f3bf3000, 8192, PROT\_READ <unfinished ...>

[pid 45043] <... munmap resumed>) = 0

[pid 45042] <... mprotect resumed>) = 0

[pid 45043] **futex**(0x7fb4683b373c, FUTEX\_WAKE\_PRIVATE, 2147483647 <unfinished ...>

[pid 45042] prlimit64(0, RLIMIT\_STACK, NULL, <unfinished ...>

[pid 45043] <... futex resumed>) = 0

[pid 45042] <... prlimit64 resumed>{rlim\_cur=8192\*1024, rlim\_max=RLIM64\_INFINITY}) = 0

[pid 45042] munmap(0x7f17f3bba000, 26022) = 0

[pid 45043] getrandom("\xe3\xe4\xac\x01\x3c\xc7\x65\xff", 8, GRND\_NONBLOCK) = 8

[pid 45042] **futex**(0x7f17f3bb673c, FUTEX\_WAKE\_PRIVATE, 2147483647 <unfinished ...>

[pid 45043] brk(NULL <unfinished ...>

[pid 45042] <... futex resumed>) = 0

[pid 45043] <... brk resumed>) = 0x1d06000

[pid 45043] brk(0x1d27000 <unfinished ...>

[pid 45042] getrandom( <unfinished ...>

[pid 45043] <... brk resumed>) = 0x1d27000

[pid 45042] <... getrandom resumed>"\x4d\x43\x20\xfa\x95\x8b\x97\x2b", 8, GRND\_NONBLOCK) = 8

[pid 45043] **openat(AT\_FDCWD, "pop2", O\_RDWR|O\_CREAT|O\_TRUNC, 0167140 <unfinished ...>**

[pid 45042] brk(NULL) = 0x9b6000

[pid 45042] brk(0x9d7000) = 0x9d7000

[**pid 45042] openat(AT\_FDCWD, "pop1", O\_RDWR|O\_CREAT|O\_TRUNC, 077500 <unfinished ...>**

[pid 45043] <... openat resumed>) = 3

**[pid 45043] openat(AT\_FDCWD, "/dev/shm/sem.sem2", O\_RDWR|O\_NOFOLLOW) = 4**

[pid 45043] newfstatat(4, "", {st\_mode=S\_IFREG|0644, st\_size=32, ...}, AT\_EMPTY\_PATH) = 0

**[pid 45043] mmap(NULL, 32, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 4, 0) = 0x7fb4683bd000**

[pid 45043] close(4) = 0

**[pid 45043] openat(AT\_FDCWD, "/dev/shm/OS2", O\_RDWR|O\_NOFOLLOW|O\_CLOEXEC) = 4**

**[pid 45043] mmap(NULL, 4096, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 4, 0) = 0x7fb4683bc000**

[pid 45042] <... openat resumed>) = 3

[pid 45043] **futex**(0x7fb4683bd000, FUTEX\_WAIT\_BITSET|FUTEX\_CLOCK\_REALTIME, 0, NULL, FUTEX\_BITSET\_MATCH\_ANY <unfinished ...>

[pid 45042] openat(AT\_FDCWD, "/dev/shm/sem.sem1", O\_RDWR|O\_NOFOLLOW) = 4

[pid 45042] newfstatat(4, "", {st\_mode=S\_IFREG|0644, st\_size=32, ...}, AT\_EMPTY\_PATH) = 0

[pid 45042] mmap(NULL, 32, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 4, 0) = 0x7f17f3bc0000

[pid 45042] close(4) = 0

**[pid 45042] openat(AT\_FDCWD, "/dev/shm/OS1", O\_RDWR|O\_NOFOLLOW|O\_CLOEXEC) = 4**

**[pid 45042] mmap(NULL, 4096, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 4, 0) = 0x7f17f3bbf000**

[pid 45042] **futex**(0x7f17f3bc0000, FUTEX\_WAIT\_BITSET|FUTEX\_CLOCK\_REALTIME, 0, NULL, FUTEX\_BITSET\_MATCH\_ANYHello

<unfinished ...>

[pid 44944] <... read resumed>"Hello\n", 1024) = 6

[pid 44944] **futex**(0x7f380a4c2000, FUTEX\_WAKE, 1) = 1

[pid 45043] <... futex resumed>) = 0

[pid 44944] clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=1000000}, <unfinished ...>

[pid 45043] write(3, "Hll\n", 4) = 4

[pid 44944] <... clock\_nanosleep resumed>NULL) = 0

[pid 45043] clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=1000000}, <unfinished ...>

[pid 44944] read(0, <unfinished ...>

[pid 45043] <... clock\_nanosleep resumed>NULL) = 0

[pid 45043] **futex**(0x7fb4683bd000, FUTEX\_WAIT\_BITSET|FUTEX\_CLOCK\_REALTIME, 0, NULL, FUTEX\_BITSET\_MATCH\_ANYWorld

<unfinished ...>

[pid 44944] <... read resumed>"World\n", 1024) = 6

[pid 44944] futex(0x7f380a4c2000, FUTEX\_WAKE, 1) = 1

[pid 45043] <... futex resumed>) = 0

[pid 44944] clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=1000000}, <unfinished ...>

[pid 45043] write(3, "Wrld\n", 5) = 5

[pid 44944] <... clock\_nanosleep resumed>NULL) = 0

[pid 44944] read(0, <unfinished ...>

[pid 45043] clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=1000000}, NULL) = 0

[pid 45043] **futex**(0x7fb4683bd000, FUTEX\_WAIT\_BITSET|FUTEX\_CLOCK\_REALTIME, 0, NULL, FUTEX\_BITSET\_MATCH\_ANY!q

<unfinished ...>

[pid 44944] <... read resumed>"!q\n", 1024) = 3

[pid 44944] **futex**(0x7f380a4c3000, FUTEX\_WAKE, 1) = 1

[pid 45042] <... futex resumed>) = 0

[pid 44944] clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=1000000}, <unfinished ...>

[pid 45042] **munmap(0x7f17f3bbf000, 4096) = 0**

[pid 45042] close(4) = 0

[pid 45042] **munmap(0x7f17f3bc0000, 32) = 0**

[pid 44944] <... clock\_nanosleep resumed>NULL) = 0

[pid 45042] **unlink("/dev/shm/sem.sem1" <unfinished ...>**

[pid 44944] **futex**(0x7f380a4c2000, FUTEX\_WAKE, 1 <unfinished ...>

[pid 45042] <... unlink resumed>) = 0

[pid 44944] <... futex resumed>) = 1

[pid 45043] <... futex resumed>) = 0

[pid 44944] clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=1000000}, <unfinished ...>

[pid 45042] close(3 <unfinished ...>

[pid 45043] **munmap(0x7fb4683bc000, 4096) = 0**

[pid 45043] close(4) = 0

[pid 45043] **munmap(0x7fb4683bd000, 32) = 0**

[pid 45043] **unlink("/dev/shm/sem.sem2" <unfinished ...>**

[pid 44944] <... clock\_nanosleep resumed>NULL) = 0

[pid 45043] <... unlink resumed>) = 0

[pid 44944] **munmap(0x7f380a4c5000, 4096) = 0**

[pid 45043] close(3 <unfinished ...>

[pid 44944] close(3 <unfinished ...>

[pid 45042] <... close resumed>) = 0

[pid 44944] <... close resumed>) = 0

[pid 44944] **unlink("/dev/shm/OS1" <unfinished ...>**

[pid 45042] exit\_group(0) = ?

[pid 44944] <... unlink resumed>) = 0

[pid 44944] **munmap(0x7f380a4c4000, 4096) = 0**

[pid 44944] close(4) = 0

[pid 44944] **unlink("/dev/shm/OS2") = 0**

[pid 44944] **munmap(0x7f380a4c3000, 32) = 0**

[pid 45042] +++ exited with 0 +++

[pid 44944] --- SIGCHLD {si\_signo=SIGCHLD, si\_code=CLD\_EXITED, si\_pid=45042, si\_uid=0, si\_status=0, si\_utime=0, si\_stime=2 /\* 0.02 s \*/} ---

[pid 45043] <... close resumed>) = 0

[pid 44944] **munmap(0x7f380a4c2000, 32) = 0**

[pid 45043] exit\_group(0 <unfinished ...>

[pid 44944] **unlink("/dev/shm/sem.sem1" <unfinished ...>**

[pid 45043] <... exit\_group resumed>) = ?

[pid 44944] <... unlink resumed>) = -1 ENOENT (No such file or directory)

[pid 44944] unlink("/dev/shm/sem.sem2") = -1 ENOENT (No such file or directory)

[pid 44944] lseek(0, -1, SEEK\_CUR) = -1 ESPIPE (Illegal seek)

[pid 44944] exit\_group(0) = ?

[pid 45043] +++ exited with 0 +++

+++ exited with 0 +++

**Лабораторная работа №4.**

32647 execve("./Program\_1", ["./Program\_1"], 0x7fff8e156d18 /\* 26 vars \*/) = 0

32647 brk(NULL) = 0x14b7000

32647 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f619b6f5000

32647 access("/etc/ld.so.preload", R\_OK) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./glibc-hwcaps/x86-64-v3/libPr\_2\_real1.so", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./glibc-hwcaps/x86-64-v2/libPr\_2\_real1.so", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./tls/haswell/x86\_64/libPr\_2\_real1.so", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./tls/haswell/libPr\_2\_real1.so", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./tls/x86\_64/libPr\_2\_real1.so", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./tls/libPr\_2\_real1.so", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./haswell/x86\_64/libPr\_2\_real1.so", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./haswell/libPr\_2\_real1.so", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./x86\_64/libPr\_2\_real1.so", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

**32647 openat(AT\_FDCWD, "./libPr\_2\_real1.so", O\_RDONLY|O\_CLOEXEC) = 3**

32647 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

32647 newfstatat(3, "", {st\_mode=S\_IFREG|0755, st\_size=15296, ...}, AT\_EMPTY\_PATH) = 0

32647 getcwd("/workspaces/MAI\_OS\_Labs/lab4/src", 128) = 33

32647 mmap(NULL, 16400, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f619b6f0000

32647 mmap(0x7f619b6f1000, 4096, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1000) = 0x7f619b6f1000

32647 mmap(0x7f619b6f2000, 4096, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000) = 0x7f619b6f2000

32647 mmap(0x7f619b6f3000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000) = 0x7f619b6f3000

32647 close(3) = 0

32647 openat(AT\_FDCWD, "./glibc-hwcaps/x86-64-v3/libstdc++.so.6", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./glibc-hwcaps/x86-64-v2/libstdc++.so.6", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./tls/haswell/x86\_64/libstdc++.so.6", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./tls/haswell/libstdc++.so.6", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./tls/x86\_64/libstdc++.so.6", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./tls/libstdc++.so.6", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./haswell/x86\_64/libstdc++.so.6", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./haswell/libstdc++.so.6", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./x86\_64/libstdc++.so.6", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./libstdc++.so.6", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC) = 3

32647 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=26022, ...}, AT\_EMPTY\_PATH) = 0

32647 mmap(NULL, 26022, PROT\_READ, MAP\_PRIVATE, 3, 0) = 0x7f619b6e9000

32647 close(3) = 0

32647 openat(AT\_FDCWD, "/usr/local/lib64/libstdc++.so.6", O\_RDONLY|O\_CLOEXEC) = 3

32647 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

32647 newfstatat(3, "", {st\_mode=S\_IFREG|0755, st\_size=2530008, ...}, AT\_EMPTY\_PATH) = 0

32647 mmap(NULL, 2543808, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f619b47b000

32647 mmap(0x7f619b520000, 1216512, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xa5000) = 0x7f619b520000

32647 mmap(0x7f619b649000, 581632, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1ce000) = 0x7f619b649000

32647 mmap(0x7f619b6d7000, 57344, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x25c000) = 0x7f619b6d7000

32647 mmap(0x7f619b6e5000, 12480, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7f619b6e5000

32647 close(3) = 0

32647 openat(AT\_FDCWD, "./glibc-hwcaps/x86-64-v3/libm.so.6", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./glibc-hwcaps/x86-64-v2/libm.so.6", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./tls/haswell/x86\_64/libm.so.6", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./tls/haswell/libm.so.6", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./tls/x86\_64/libm.so.6", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./tls/libm.so.6", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./haswell/x86\_64/libm.so.6", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./haswell/libm.so.6", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./x86\_64/libm.so.6", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./libm.so.6", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libm.so.6", O\_RDONLY|O\_CLOEXEC) = 3

32647 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

32647 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=907784, ...}, AT\_EMPTY\_PATH) = 0

32647 mmap(NULL, 909560, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f619b39c000

32647 mmap(0x7f619b3ac000, 471040, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x10000) = 0x7f619b3ac000

32647 mmap(0x7f619b41f000, 368640, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x83000) = 0x7f619b41f000

32647 mmap(0x7f619b479000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xdc000) = 0x7f619b479000

32647 close(3) = 0

32647 openat(AT\_FDCWD, "./glibc-hwcaps/x86-64-v3/libgcc\_s.so.1", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./glibc-hwcaps/x86-64-v2/libgcc\_s.so.1", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./tls/haswell/x86\_64/libgcc\_s.so.1", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./tls/haswell/libgcc\_s.so.1", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./tls/x86\_64/libgcc\_s.so.1", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./tls/libgcc\_s.so.1", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./haswell/x86\_64/libgcc\_s.so.1", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./haswell/libgcc\_s.so.1", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./x86\_64/libgcc\_s.so.1", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./libgcc\_s.so.1", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "/usr/local/lib64/libgcc\_s.so.1", O\_RDONLY|O\_CLOEXEC) = 3

32647 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

32647 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=906528, ...}, AT\_EMPTY\_PATH) = 0

32647 mmap(NULL, 181160, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f619b36f000

32647 mmap(0x7f619b373000, 143360, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000) = 0x7f619b373000

32647 mmap(0x7f619b396000, 16384, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x27000) = 0x7f619b396000

32647 mmap(0x7f619b39a000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2b000) = 0x7f619b39a000

32647 close(3) = 0

32647 openat(AT\_FDCWD, "./glibc-hwcaps/x86-64-v3/libc.so.6", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./glibc-hwcaps/x86-64-v2/libc.so.6", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./tls/haswell/x86\_64/libc.so.6", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./tls/haswell/libc.so.6", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./tls/x86\_64/libc.so.6", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./tls/libc.so.6", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./haswell/x86\_64/libc.so.6", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./haswell/libc.so.6", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./x86\_64/libc.so.6", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "./libc.so.6", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libc.so.6", O\_RDONLY|O\_CLOEXEC) = 3

32647 read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\20t\2\0\0\0\0\0"..., 832) = 832

32647 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

32647 newfstatat(3, "", {st\_mode=S\_IFREG|0755, st\_size=1922136, ...}, AT\_EMPTY\_PATH) = 0

32647 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

32647 mmap(NULL, 1970000, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f619b18e000

32647 mmap(0x7f619b1b4000, 1396736, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x26000) = 0x7f619b1b4000

32647 mmap(0x7f619b309000, 339968, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x17b000) = 0x7f619b309000

32647 mmap(0x7f619b35c000, 24576, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1ce000) = 0x7f619b35c000

32647 mmap(0x7f619b362000, 53072, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7f619b362000

32647 close(3) = 0

32647 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f619b18c000

32647 mmap(NULL, 12288, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f619b189000

32647 arch\_prctl(ARCH\_SET\_FS, 0x7f619b189740) = 0

32647 set\_tid\_address(0x7f619b189a10) = 32647

32647 set\_robust\_list(0x7f619b189a20, 24) = 0

32647 rseq(0x7f619b18a060, 0x20, 0, 0x53053053) = 0

32647 mprotect(0x7f619b35c000, 16384, PROT\_READ) = 0

32647 mprotect(0x7f619b39a000, 4096, PROT\_READ) = 0

32647 mprotect(0x7f619b479000, 4096, PROT\_READ) = 0

32647 mprotect(0x7f619b6d7000, 45056, PROT\_READ) = 0

32647 mprotect(0x7f619b6f3000, 4096, PROT\_READ) = 0

32647 mprotect(0x403000, 4096, PROT\_READ) = 0

32647 mprotect(0x7f619b727000, 8192, PROT\_READ) = 0

32647 prlimit64(0, RLIMIT\_STACK, NULL, {rlim\_cur=8192\*1024, rlim\_max=RLIM64\_INFINITY}) = 0

32647 munmap(0x7f619b6e9000, 26022) = 0

32647 futex(0x7f619b6e573c, FUTEX\_WAKE\_PRIVATE, 2147483647) = 0

32647 getrandom("\x26\xc7\x44\x8e\x8c\x52\x84\xad", 8, GRND\_NONBLOCK) = 8

32647 brk(NULL) = 0x14b7000

32647 brk(0x14d8000) = 0x14d8000

32647 newfstatat(1, "", {st\_mode=S\_IFCHR|0620, st\_rdev=makedev(0x88, 0x1), ...}, AT\_EMPTY\_PATH) = 0

32647 write(1, "Input program code: -1-exit, 1-c"..., 54) = 54

32647 newfstatat(0, "", {st\_mode=S\_IFCHR|0620, st\_rdev=makedev(0x88, 0x1), ...}, AT\_EMPTY\_PATH) = 0

32647 read(0, "1\n", 1024) = 2

32647 read(0, "1000\n", 1024) = 5

32647 write(1, "Pi number: 3.14059\n\n", 20) = 20

32647 write(1, "Input program code: -1-exit, 1-c"..., 54) = 54

32647 read(0, "-1\n", 1024) = 3

32647 write(1, "Exit\n", 5) = 5

32647 lseek(0, -1, SEEK\_CUR) = -1 ESPIPE (Illegal seek)

32647 exit\_group(0) = ?

32647 +++ exited with 0 +++

**Program 2**

36814 execve("./Program\_2", ["./Program\_2"], 0x7ffee39257d8 /\* 26 vars \*/) = 0

36814 brk(NULL) = 0x1fb8000

36814 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7fb16b327000

36814 access("/etc/ld.so.preload", R\_OK) = -1 ENOENT (No such file or directory)

36814 openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC) = 3

36814 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=26022, ...}, AT\_EMPTY\_PATH) = 0

36814 mmap(NULL, 26022, PROT\_READ, MAP\_PRIVATE, 3, 0) = 0x7fb16b320000

36814 close(3) = 0

36814 openat(AT\_FDCWD, "/usr/local/lib64/libstdc++.so.6", O\_RDONLY|O\_CLOEXEC) = 3

36814 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

36814 newfstatat(3, "", {st\_mode=S\_IFREG|0755, st\_size=2530008, ...}, AT\_EMPTY\_PATH) = 0

36814 mmap(NULL, 2543808, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fb16b0b2000

36814 mmap(0x7fb16b157000, 1216512, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xa5000) = 0x7fb16b157000

36814 mmap(0x7fb16b280000, 581632, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1ce000) = 0x7fb16b280000

36814 mmap(0x7fb16b30e000, 57344, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x25c000) = 0x7fb16b30e000

36814 mmap(0x7fb16b31c000, 12480, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7fb16b31c000

36814 close(3) = 0

36814 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libm.so.6", O\_RDONLY|O\_CLOEXEC) = 3

36814 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

36814 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=907784, ...}, AT\_EMPTY\_PATH) = 0

36814 mmap(NULL, 909560, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fb16afd3000

36814 mmap(0x7fb16afe3000, 471040, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x10000) = 0x7fb16afe3000

36814 mmap(0x7fb16b056000, 368640, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x83000) = 0x7fb16b056000

36814 mmap(0x7fb16b0b0000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xdc000) = 0x7fb16b0b0000

36814 close(3) = 0

36814 openat(AT\_FDCWD, "/usr/local/lib64/libgcc\_s.so.1", O\_RDONLY|O\_CLOEXEC) = 3

36814 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

36814 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=906528, ...}, AT\_EMPTY\_PATH) = 0

36814 mmap(NULL, 181160, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fb16afa6000

36814 mmap(0x7fb16afaa000, 143360, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000) = 0x7fb16afaa000

36814 mmap(0x7fb16afcd000, 16384, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x27000) = 0x7fb16afcd000

36814 mmap(0x7fb16afd1000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2b000) = 0x7fb16afd1000

36814 close(3) = 0

36814 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libc.so.6", O\_RDONLY|O\_CLOEXEC) = 3

36814 read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\20t\2\0\0\0\0\0"..., 832) = 832

36814 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

36814 newfstatat(3, "", {st\_mode=S\_IFREG|0755, st\_size=1922136, ...}, AT\_EMPTY\_PATH) = 0

36814 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

36814 mmap(NULL, 1970000, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fb16adc5000

36814 mmap(0x7fb16adeb000, 1396736, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x26000) = 0x7fb16adeb000

36814 mmap(0x7fb16af40000, 339968, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x17b000) = 0x7fb16af40000

36814 mmap(0x7fb16af93000, 24576, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1ce000) = 0x7fb16af93000

36814 mmap(0x7fb16af99000, 53072, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7fb16af99000

36814 close(3) = 0

36814 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7fb16adc3000

36814 arch\_prctl(ARCH\_SET\_FS, 0x7fb16adc4480) = 0

36814 set\_tid\_address(0x7fb16adc4750) = 36814

36814 set\_robust\_list(0x7fb16adc4760, 24) = 0

36814 rseq(0x7fb16adc4da0, 0x20, 0, 0x53053053) = 0

36814 mprotect(0x7fb16af93000, 16384, PROT\_READ) = 0

36814 mprotect(0x7fb16afd1000, 4096, PROT\_READ) = 0

36814 mprotect(0x7fb16b0b0000, 4096, PROT\_READ) = 0

36814 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7fb16adc1000

36814 mprotect(0x7fb16b30e000, 45056, PROT\_READ) = 0

36814 mprotect(0x403000, 4096, PROT\_READ) = 0

36814 mprotect(0x7fb16b359000, 8192, PROT\_READ) = 0

36814 prlimit64(0, RLIMIT\_STACK, NULL, {rlim\_cur=8192\*1024, rlim\_max=RLIM64\_INFINITY}) = 0

36814 munmap(0x7fb16b320000, 26022) = 0

36814 futex(0x7fb16b31c73c, FUTEX\_WAKE\_PRIVATE, 2147483647) = 0

36814 getrandom("\x63\x19\xbd\x55\x1a\x7c\xe0\xab", 8, GRND\_NONBLOCK) = 8

36814 brk(NULL) = 0x1fb8000

36814 brk(0x1fd9000) = 0x1fd9000

**36814 openat(AT\_FDCWD, "./libPr\_2\_real1.so", O\_RDONLY|O\_CLOEXEC) = 3**

36814 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

36814 newfstatat(3, "", {st\_mode=S\_IFREG|0755, st\_size=15296, ...}, AT\_EMPTY\_PATH) = 0

36814 getcwd("/workspaces/MAI\_OS\_Labs/lab4/src", 128) = 33

36814 mmap(NULL, 16400, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fb16b322000

36814 mmap(0x7fb16b323000, 4096, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1000) = 0x7fb16b323000

36814 mmap(0x7fb16b324000, 4096, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000) = 0x7fb16b324000

36814 mmap(0x7fb16b325000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000) = 0x7fb16b325000

36814 close(3) = 0

36814 mprotect(0x7fb16b325000, 4096, PROT\_READ) = 0

36814 newfstatat(1, "", {st\_mode=S\_IFCHR|0620, st\_rdev=makedev(0x88, 0x1), ...}, AT\_EMPTY\_PATH) = 0

36814 write(1, "Library is loaded\n", 18) = 18

36814 write(1, "Input program code: -1-exit, 0-c"..., 76) = 76

36814 newfstatat(0, "", {st\_mode=S\_IFCHR|0620, st\_rdev=makedev(0x88, 0x1), ...}, AT\_EMPTY\_PATH) = 0

36814 read(0, "1 100\n", 1024) = 6

36814 write(1, "Teck realization of Pi is Leibni"..., 34) = 34

36814 write(1, "0x1fca2d0 1 1Pi number: 100 3.13"..., 37) = 37

36814 write(1, "Input program code: -1-exit, 0-c"..., 76) = 76

36814 read(0, "0\n", 1024) = 2

36814 munmap(0x7fb16b322000, 16400) = 0

**36814 openat(AT\_FDCWD, "./libPr\_2\_real2.so", O\_RDONLY|O\_CLOEXEC) = 3**

36814 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

36814 newfstatat(3, "", {st\_mode=S\_IFREG|0755, st\_size=15296, ...}, AT\_EMPTY\_PATH) = 0

36814 getcwd("/workspaces/MAI\_OS\_Labs/lab4/src", 128) = 33

36814 mmap(NULL, 16400, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fb16b322000

36814 mmap(0x7fb16b323000, 4096, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1000) = 0x7fb16b323000

36814 mmap(0x7fb16b324000, 4096, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000) = 0x7fb16b324000

36814 mmap(0x7fb16b325000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000) = 0x7fb16b325000

36814 close(3) = 0

36814 mprotect(0x7fb16b325000, 4096, PROT\_READ) = 0

36814 write(1, "Library is loaded\n", 18) = 18

36814 write(1, "Input program code: -1-exit, 0-c"..., 76) = 76

36814 read(0, "1 100\n", 1024) = 6

36814 write(1, "Teck realization of Pi is Wallis"..., 33) = 33

36814 write(1, "0x1fca2d0 1 1Pi number: 100 3.14"..., 36) = 36

36814 write(1, "Input program code: -1-exit, 0-c"..., 76) = 76

36814 read(0, "-1\n", 1024) = 3

36814 write(1, "Exit\n", 5) = 5

36814 munmap(0x7fb16b322000, 16400) = 0

36814 lseek(0, -1, SEEK\_CUR) = -1 ESPIPE (Illegal seek)

36814 exit\_group(0) = ?

36814 +++ exited with 0 +++

**Лабораторная работа 5-7.**

23259 execve("./control", ["./control"], 0x7ffef2951018 /\* 34 vars \*/) = 0

23259 brk(NULL) = 0x564651045000

23259 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7fcafb9e7000

23259 access("/etc/ld.so.preload", R\_OK) = -1 ENOENT (No such file or directory)

23259 openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC) = 3

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=26550, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 26550, PROT\_READ, MAP\_PRIVATE, 3, 0) = 0x7fcafb9e0000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libzmq.so.5", O\_RDONLY|O\_CLOEXEC) = 3

23259 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

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=774184, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 772088, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb923000

23259 mmap(0x7fcafb93c000, 487424, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x19000) = 0x7fcafb93c000

23259 mmap(0x7fcafb9b3000, 147456, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x90000) = 0x7fcafb9b3000

23259 mmap(0x7fcafb9d7000, 36864, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xb4000) = 0x7fcafb9d7000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/usr/local/lib64/libstdc++.so.6", O\_RDONLY|O\_CLOEXEC) = 3

23259 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

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0755, st\_size=2530008, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 2543808, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb6b5000

23259 mmap(0x7fcafb75a000, 1216512, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xa5000) = 0x7fcafb75a000

23259 mmap(0x7fcafb883000, 581632, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1ce000) = 0x7fcafb883000

23259 mmap(0x7fcafb911000, 57344, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x25c000) = 0x7fcafb911000

23259 mmap(0x7fcafb91f000, 12480, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7fcafb91f000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/usr/local/lib64/libgcc\_s.so.1", O\_RDONLY|O\_CLOEXEC) = 3

23259 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

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=906528, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 181160, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb688000

23259 mmap(0x7fcafb68c000, 143360, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000) = 0x7fcafb68c000

23259 mmap(0x7fcafb6af000, 16384, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x27000) = 0x7fcafb6af000

23259 mmap(0x7fcafb6b3000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2b000) = 0x7fcafb6b3000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libc.so.6", O\_RDONLY|O\_CLOEXEC) = 3

23259 read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\20t\2\0\0\0\0\0"..., 832) = 832

23259 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

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0755, st\_size=1922136, ...}, AT\_EMPTY\_PATH) = 0

23259 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

23259 mmap(NULL, 1970000, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb4a7000

23259 mmap(0x7fcafb4cd000, 1396736, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x26000) = 0x7fcafb4cd000

23259 mmap(0x7fcafb622000, 339968, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x17b000) = 0x7fcafb622000

23259 mmap(0x7fcafb675000, 24576, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1ce000) = 0x7fcafb675000

23259 mmap(0x7fcafb67b000, 53072, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7fcafb67b000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libbsd.so.0", O\_RDONLY|O\_CLOEXEC) = 3

23259 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

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=84840, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 86224, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb491000

23259 mmap(0x7fcafb495000, 49152, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000) = 0x7fcafb495000

23259 mmap(0x7fcafb4a1000, 12288, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x10000) = 0x7fcafb4a1000

23259 mmap(0x7fcafb4a4000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x13000) = 0x7fcafb4a4000

23259 mmap(0x7fcafb4a6000, 208, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7fcafb4a6000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libsodium.so.23", O\_RDONLY|O\_CLOEXEC) = 3

23259 read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0 \314\0\0\0\0\0\0"..., 832) = 832

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=363208, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7fcafb48f000

23259 mmap(NULL, 365576, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb435000

23259 mprotect(0x7fcafb441000, 311296, PROT\_NONE) = 0

23259 mmap(0x7fcafb441000, 233472, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xc000) = 0x7fcafb441000

23259 mmap(0x7fcafb47a000, 73728, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x45000) = 0x7fcafb47a000

23259 mmap(0x7fcafb48d000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x57000) = 0x7fcafb48d000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libpgm-5.3.so.0", O\_RDONLY|O\_CLOEXEC) = 3

23259 read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\220I\0\0\0\0\0\0"..., 832) = 832

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=306400, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 326096, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb3e5000

23259 mmap(0x7fcafb3e9000, 167936, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000) = 0x7fcafb3e9000

23259 mmap(0x7fcafb412000, 118784, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2d000) = 0x7fcafb412000

23259 mmap(0x7fcafb42f000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x49000) = 0x7fcafb42f000

23259 mmap(0x7fcafb431000, 14800, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7fcafb431000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libnorm.so.1", O\_RDONLY|O\_CLOEXEC) = 3

23259 read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\300\246\0\0\0\0\0\0"..., 832) = 832

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=489480, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 1214976, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb2bc000

23259 mprotect(0x7fcafb2c6000, 438272, PROT\_NONE) = 0

23259 mmap(0x7fcafb2c6000, 278528, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xa000) = 0x7fcafb2c6000

23259 mmap(0x7fcafb30a000, 155648, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4e000) = 0x7fcafb30a000

23259 mmap(0x7fcafb331000, 16384, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x74000) = 0x7fcafb331000

23259 mmap(0x7fcafb335000, 719360, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7fcafb335000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libgssapi\_krb5.so.2", O\_RDONLY|O\_CLOEXEC) = 3

23259 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

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=338680, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 337152, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb269000

23259 mmap(0x7fcafb275000, 221184, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xc000) = 0x7fcafb275000

23259 mmap(0x7fcafb2ab000, 53248, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x42000) = 0x7fcafb2ab000

23259 mmap(0x7fcafb2b8000, 16384, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4f000) = 0x7fcafb2b8000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libm.so.6", O\_RDONLY|O\_CLOEXEC) = 3

23259 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

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=907784, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 909560, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb18a000

23259 mmap(0x7fcafb19a000, 471040, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x10000) = 0x7fcafb19a000

23259 mmap(0x7fcafb20d000, 368640, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x83000) = 0x7fcafb20d000

23259 mmap(0x7fcafb267000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xdc000) = 0x7fcafb267000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libmd.so.0", O\_RDONLY|O\_CLOEXEC) = 3

23259 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

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=47312, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7fcafb188000

23259 mmap(NULL, 49384, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb17b000

23259 mmap(0x7fcafb17d000, 28672, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000) = 0x7fcafb17d000

23259 mmap(0x7fcafb184000, 8192, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x9000) = 0x7fcafb184000

23259 mmap(0x7fcafb186000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xa000) = 0x7fcafb186000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libpthread.so.0", O\_RDONLY|O\_CLOEXEC) = 3

23259 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

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=14480, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 16400, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb176000

23259 mmap(0x7fcafb177000, 4096, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1000) = 0x7fcafb177000

23259 mmap(0x7fcafb178000, 4096, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000) = 0x7fcafb178000

23259 mmap(0x7fcafb179000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000) = 0x7fcafb179000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libkrb5.so.3", O\_RDONLY|O\_CLOEXEC) = 3

23259 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

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=888080, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 890784, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb09c000

23259 mmap(0x7fcafb0bf000, 389120, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x23000) = 0x7fcafb0bf000

23259 mmap(0x7fcafb11e000, 294912, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x82000) = 0x7fcafb11e000

23259 mmap(0x7fcafb166000, 65536, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xc9000) = 0x7fcafb166000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libk5crypto.so.3", O\_RDONLY|O\_CLOEXEC) = 3

23259 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

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=183048, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 180952, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb06f000

23259 mmap(0x7fcafb073000, 106496, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000) = 0x7fcafb073000

23259 mmap(0x7fcafb08d000, 53248, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1e000) = 0x7fcafb08d000

23259 mmap(0x7fcafb09a000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2b000) = 0x7fcafb09a000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libcom\_err.so.2", O\_RDONLY|O\_CLOEXEC) = 3

23259 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

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=18344, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 20552, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb069000

23259 mmap(0x7fcafb06b000, 4096, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000) = 0x7fcafb06b000

23259 mmap(0x7fcafb06c000, 4096, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x3000) = 0x7fcafb06c000

23259 mmap(0x7fcafb06d000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x3000) = 0x7fcafb06d000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libkrb5support.so.0", O\_RDONLY|O\_CLOEXEC) = 3

23259 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

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=52224, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7fcafb067000

23259 mmap(NULL, 54632, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb059000

23259 mmap(0x7fcafb05c000, 24576, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x3000) = 0x7fcafb05c000

23259 mmap(0x7fcafb062000, 12288, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x9000) = 0x7fcafb062000

23259 mmap(0x7fcafb065000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xb000) = 0x7fcafb065000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libkeyutils.so.1", O\_RDONLY|O\_CLOEXEC) = 3

23259 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

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=22448, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 24592, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb052000

23259 mmap(0x7fcafb054000, 8192, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000) = 0x7fcafb054000

23259 mmap(0x7fcafb056000, 4096, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000) = 0x7fcafb056000

23259 mmap(0x7fcafb057000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000) = 0x7fcafb057000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libresolv.so.2", O\_RDONLY|O\_CLOEXEC) = 3

23259 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

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=60328, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 68136, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb041000

23259 mmap(0x7fcafb044000, 32768, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x3000) = 0x7fcafb044000

23259 mmap(0x7fcafb04c000, 8192, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xb000) = 0x7fcafb04c000

23259 mmap(0x7fcafb04e000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xd000) = 0x7fcafb04e000

23259 mmap(0x7fcafb050000, 6696, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7fcafb050000

23259 close(3) = 0

23259 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7fcafb03f000

23259 mmap(NULL, 12288, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7fcafb03c000

23259 arch\_prctl(ARCH\_SET\_FS, 0x7fcafb03c9c0) = 0

23259 set\_tid\_address(0x7fcafb03cc90) = 23259

23259 set\_robust\_list(0x7fcafb03cca0, 24) = 0

23259 rseq(0x7fcafb03d2e0, 0x20, 0, 0x53053053) = 0

23259 mprotect(0x7fcafb675000, 16384, PROT\_READ) = 0

23259 mprotect(0x7fcafb04e000, 4096, PROT\_READ) = 0

23259 mprotect(0x7fcafb057000, 4096, PROT\_READ) = 0

23259 mprotect(0x7fcafb065000, 4096, PROT\_READ) = 0

23259 mprotect(0x7fcafb06d000, 4096, PROT\_READ) = 0

23259 mprotect(0x7fcafb09a000, 4096, PROT\_READ) = 0

23259 mprotect(0x7fcafb166000, 53248, PROT\_READ) = 0

23259 mprotect(0x7fcafb179000, 4096, PROT\_READ) = 0

23259 mprotect(0x7fcafb186000, 4096, PROT\_READ) = 0

23259 mprotect(0x7fcafb267000, 4096, PROT\_READ) = 0

23259 mprotect(0x7fcafb2b8000, 8192, PROT\_READ) = 0

23259 mprotect(0x7fcafb6b3000, 4096, PROT\_READ) = 0

23259 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7fcafb03a000

23259 mprotect(0x7fcafb911000, 45056, PROT\_READ) = 0

23259 mprotect(0x7fcafb331000, 12288, PROT\_READ) = 0

23259 mprotect(0x7fcafb42f000, 4096, PROT\_READ) = 0

23259 mprotect(0x7fcafb48d000, 4096, PROT\_READ) = 0

23259 mprotect(0x7fcafb4a4000, 4096, PROT\_READ) = 0

23259 mprotect(0x7fcafb9d7000, 32768, PROT\_READ) = 0

23259 mprotect(0x56464f95d000, 4096, PROT\_READ) = 0

23259 mprotect(0x7fcafba19000, 8192, PROT\_READ) = 0

23259 prlimit64(0, RLIMIT\_STACK, NULL, {rlim\_cur=8192\*1024, rlim\_max=RLIM64\_INFINITY}) = 0

23259 munmap(0x7fcafb9e0000, 26550) = 0

23259 futex(0x7fcafb91f73c, FUTEX\_WAKE\_PRIVATE, 2147483647) = 0

23259 getrandom("\x0b\xcb\xc4\x4c\x94\x0b\xbe\x5b", 8, GRND\_NONBLOCK) = 8

23259 brk(NULL) = 0x564651045000

23259 brk(0x564651066000) = 0x564651066000

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

....

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 1 (in [0], left {tv\_sec=0, tv\_nsec=0})

23259 newfstatat(0, "", {st\_mode=S\_IFCHR|0620, st\_rdev=makedev(0x88, 0), ...}, AT\_EMPTY\_PATH) = 0

23259 read(0, "create 1 -1\n", 1024) = 12

23259 clone(child\_stack=NULL, flags=CLONE\_CHILD\_CLEARTID|CLONE\_CHILD\_SETTID|SIGCHLD, child\_tidptr=0x7fcafb03cc90) = 23337

23337 set\_robust\_list(0x7fcafb03cca0, 24 <unfinished ...>

23259 getpid( <unfinished ...>

23337 <... set\_robust\_list resumed>) = 0

23259 <... getpid resumed>) = 23259

23337 **execve**("./computing", ["computing", "1"], 0x7fffcaebd3b8 /\* 34 vars \*/ <unfinished ...>

23259 openat(AT\_FDCWD, "/sys/devices/system/cpu/online", O\_RDONLY|O\_CLOEXEC) = 3

23259 read(3, "0-17\n", 1024) = 5

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/sys/devices/system/cpu/possible", O\_RDONLY|O\_CLOEXEC) = 3

23259 read(3, "0-17\n", 1024) = 5

23259 close(3) = 0

23259 getpid() = 23259

23259 sched\_getaffinity(23259, 128, [0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17]) = 32

23259 newfstatat(AT\_FDCWD, "/etc/nsswitch.conf", {st\_mode=S\_IFREG|0644, st\_size=494, ...}, 0) = 0

23259 newfstatat(AT\_FDCWD, "/", {st\_mode=S\_IFDIR|0755, st\_size=4096, ...}, 0) = 0

23259 openat(AT\_FDCWD, "/etc/nsswitch.conf", O\_RDONLY|O\_CLOEXEC) = 3

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=494, ...}, AT\_EMPTY\_PATH) = 0

23259 read(3, "# /etc/nsswitch.conf\n#\n# Example"..., 4096) = 494

23259 read(3, "", 4096) = 0

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=494, ...}, AT\_EMPTY\_PATH) = 0

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC) = 3

23337 <... execve resumed>) = 0

23259 newfstatat(3, "", <unfinished ...>

23337 brk(NULL <unfinished ...>

23259 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=26550, ...}, AT\_EMPTY\_PATH) = 0

23337 <... brk resumed>) = 0x563e8abb5000

23259 mmap(NULL, 26550, PROT\_READ, MAP\_PRIVATE, 3, 0 <unfinished ...>

23337 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

23259 <... mmap resumed>) = 0x7fcafb9e0000

23337 <... mmap resumed>) = 0x7f66c058f000

23259 close(3 <unfinished ...>

23337 access("/etc/ld.so.preload", R\_OK <unfinished ...>

23259 <... close resumed>) = 0

23337 <... access resumed>) = -1 ENOENT (No such file or directory)

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/glibc-hwcaps/x86-64-v3/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... openat resumed>) = 3

23259 newfstatat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/glibc-hwcaps/x86-64-v3", <unfinished ...>

23337 newfstatat(3, "", <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=26550, ...}, AT\_EMPTY\_PATH) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/glibc-hwcaps/x86-64-v2/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 mmap(NULL, 26550, PROT\_READ, MAP\_PRIVATE, 3, 0 <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66c0588000

23259 newfstatat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/glibc-hwcaps/x86-64-v2", <unfinished ...>

23337 close(3 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... close resumed>) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/tls/haswell/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libzmq.so.5", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... openat resumed>) = 3

23259 newfstatat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/tls/haswell/x86\_64", <unfinished ...>

23337 read(3, <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... read resumed>"\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

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/tls/haswell/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 newfstatat(3, "", <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=774184, ...}, AT\_EMPTY\_PATH) = 0

23259 newfstatat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/tls/haswell", <unfinished ...>

23337 mmap(NULL, 772088, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66c04cb000

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/tls/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 mmap(0x7f66c04e4000, 487424, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x19000 <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66c04e4000

23259 newfstatat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/tls/x86\_64", <unfinished ...>

23337 mmap(0x7f66c055b000, 147456, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x90000 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66c055b000

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/tls/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 mmap(0x7f66c057f000, 36864, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xb4000 <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... openat resumed>) = 3

23259 newfstatat(AT\_FDCWD, "/lib/glibc-hwcaps/x86-64-v3", <unfinished ...>

23337 read(3, <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... read resumed>"\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

23259 openat(AT\_FDCWD, "/lib/glibc-hwcaps/x86-64-v2/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 newfstatat(3, "", <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=84840, ...}, AT\_EMPTY\_PATH) = 0

23259 newfstatat(AT\_FDCWD, "/lib/glibc-hwcaps/x86-64-v2", <unfinished ...>

23337 mmap(NULL, 86224, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66c0039000

23259 openat(AT\_FDCWD, "/lib/tls/haswell/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 mmap(0x7f66c003d000, 49152, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000 <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66c003d000

23259 newfstatat(AT\_FDCWD, "/lib/tls/haswell/x86\_64", <unfinished ...>

23337 mmap(0x7f66c0049000, 12288, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x10000 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66c0049000

23259 openat(AT\_FDCWD, "/lib/tls/haswell/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 mmap(0x7f66c004c000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x13000 <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66c004c000

23259 newfstatat(AT\_FDCWD, "/lib/tls/haswell", <unfinished ...>

23337 mmap(0x7f66c004e000, 208, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66c004e000

23259 openat(AT\_FDCWD, "/lib/tls/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 close(3 <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... close resumed>) = 0

23259 newfstatat(AT\_FDCWD, "/lib/tls/x86\_64", <unfinished ...>

23337 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libsodium.so.23", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... openat resumed>) = 3

23259 openat(AT\_FDCWD, "/lib/tls/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 read(3, <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... read resumed>"\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0 \314\0\0\0\0\0\0"..., 832) = 832

23259 newfstatat(AT\_FDCWD, "/lib/tls", <unfinished ...>

23337 newfstatat(3, "", <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=363208, ...}, AT\_EMPTY\_PATH) = 0

23259 openat(AT\_FDCWD, "/lib/haswell/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66c0037000

23259 newfstatat(AT\_FDCWD, "/lib/haswell/x86\_64", <unfinished ...>

23337 mmap(NULL, 365576, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66bffdd000

23259 openat(AT\_FDCWD, "/lib/haswell/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 mprotect(0x7f66bffe9000, 311296, PROT\_NONE <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... mprotect resumed>) = 0

23259 newfstatat(AT\_FDCWD, "/lib/haswell", <unfinished ...>

23337 mmap(0x7f66bffe9000, 233472, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xc000 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66bffe9000

23259 openat(AT\_FDCWD, "/lib/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 mmap(0x7f66c0022000, 73728, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x45000 <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66c0022000

23259 newfstatat(AT\_FDCWD, "/lib/x86\_64", <unfinished ...>

23337 mmap(0x7f66c0035000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x57000 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66c0035000

23259 openat(AT\_FDCWD, "/lib/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 close(3 <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... close resumed>) = 0

23259 newfstatat(AT\_FDCWD, "/lib", <unfinished ...>

23337 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libpgm-5.3.so.0", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23259 <... newfstatat resumed>{st\_mode=S\_IFDIR|0755, st\_size=4096, ...}, 0) = 0

23337 <... openat resumed>) = 3

23259 openat(AT\_FDCWD, "/usr/lib/glibc-hwcaps/x86-64-v3/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 read(3, <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... read resumed>"\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\220I\0\0\0\0\0\0"..., 832) = 832

23259 newfstatat(AT\_FDCWD, "/usr/lib/glibc-hwcaps/x86-64-v3", <unfinished ...>

23337 newfstatat(3, "", <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=306400, ...}, AT\_EMPTY\_PATH) = 0

23259 openat(AT\_FDCWD, "/usr/lib/glibc-hwcaps/x86-64-v2/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 mmap(NULL, 326096, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66bff8d000

23259 newfstatat(AT\_FDCWD, "/usr/lib/glibc-hwcaps/x86-64-v2", <unfinished ...>

23337 mmap(0x7f66bff91000, 167936, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66bff91000

23259 openat(AT\_FDCWD, "/usr/lib/tls/haswell/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 mmap(0x7f66bffba000, 118784, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2d000 <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66bffba000

23259 newfstatat(AT\_FDCWD, "/usr/lib/tls/haswell/x86\_64", <unfinished ...>

23337 mmap(0x7f66bffd7000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x49000 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66bffd7000

23259 openat(AT\_FDCWD, "/usr/lib/tls/haswell/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 mmap(0x7f66bffd9000, 14800, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66bffd9000

23259 newfstatat(AT\_FDCWD, "/usr/lib/tls/haswell", <unfinished ...>

23337 close(3 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... close resumed>) = 0

23259 openat(AT\_FDCWD, "/usr/lib/tls/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libnorm.so.1", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... openat resumed>) = 3

23259 newfstatat(AT\_FDCWD, "/usr/lib/tls/x86\_64", <unfinished ...>

23337 read(3, <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... read resumed>"\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\300\246\0\0\0\0\0\0"..., 832) = 832

23259 openat(AT\_FDCWD, "/usr/lib/tls/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 newfstatat(3, "", <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=489480, ...}, AT\_EMPTY\_PATH) = 0

23259 newfstatat(AT\_FDCWD, "/usr/lib/tls", <unfinished ...>

23337 mmap(NULL, 1214976, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66bfe64000

23259 openat(AT\_FDCWD, "/usr/lib/haswell/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 mprotect(0x7f66bfe6e000, 438272, PROT\_NONE <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... mprotect resumed>) = 0

23259 newfstatat(AT\_FDCWD, "/usr/lib/haswell/x86\_64", <unfinished ...>

23337 mmap(0x7f66bfe6e000, 278528, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xa000 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66bfe6e000

23259 openat(AT\_FDCWD, "/usr/lib/haswell/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 mmap(0x7f66bfeb2000, 155648, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4e000 <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66bfeb2000

23259 newfstatat(AT\_FDCWD, "/usr/lib/haswell", <unfinished ...>

23337 mmap(0x7f66bfed9000, 16384, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x74000 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66bfed9000

23259 openat(AT\_FDCWD, "/usr/lib/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 mmap(0x7f66bfedd000, 719360, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66bfedd000

23259 newfstatat(AT\_FDCWD, "/usr/lib/x86\_64", <unfinished ...>

23337 close(3 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... close resumed>) = 0

23259 openat(AT\_FDCWD, "/usr/lib/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libgssapi\_krb5.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... openat resumed>) = 3

23259 newfstatat(AT\_FDCWD, "/usr/lib", <unfinished ...>

23337 read(3, <unfinished ...>

23259 <... newfstatat resumed>{st\_mode=S\_IFDIR|0755, st\_size=4096, ...}, 0) = 0

23337 <... read resumed>"\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

23259 munmap(0x7fcafb9e0000, 26550 <unfinished ...>

23337 newfstatat(3, "", <unfinished ...>

23259 <... munmap resumed>) = 0

23337 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=338680, ...}, AT\_EMPTY\_PATH) = 0

23259 openat(AT\_FDCWD, "/etc/protocols", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 mmap(NULL, 337152, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

23259 <... openat resumed>) = 3

23337 <... mmap resumed>) = 0x7f66bfe11000

23259 newfstatat(3, "", <unfinished ...>

23337 mmap(0x7f66bfe1d000, 221184, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xc000 <unfinished ...>

23259 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=3144, ...}, AT\_EMPTY\_PATH) = 0

23337 <... mmap resumed>) = 0x7f66bfe1d000

23259 lseek(3, 0, SEEK\_SET <unfinished ...>

23337 mmap(0x7f66bfe53000, 53248, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x42000 <unfinished ...>

23259 <... lseek resumed>) = 0

23337 <... mmap resumed>) = 0x7f66bfe53000

23259 read(3, <unfinished ...>

23337 mmap(0x7f66bfe60000, 16384, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4f000 <unfinished ...>

23259 <... read resumed>"# Internet (IP) protocols\n#\n# Up"..., 4096) = 3144

23337 <... mmap resumed>) = 0x7f66bfe60000

23259 read(3, <unfinished ...>

23337 close(3 <unfinished ...>

23259 <... read resumed>"", 4096) = 0

23337 <... close resumed>) = 0

23259 close(3 <unfinished ...>

23337 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libm.so.6", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23259 <... close resumed>) = 0

23337 <... openat resumed>) = 3

23259 eventfd2(0, EFD\_CLOEXEC <unfinished ...>

23337 read(3, <unfinished ...>

23259 <... eventfd2 resumed>) = 3

23337 <... read resumed>"\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

23259 fcntl(3, F\_GETFL <unfinished ...>

23337 newfstatat(3, "", <unfinished ...>

23259 <... fcntl resumed>) = 0x2 (flags O\_RDWR)

23337 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=907784, ...}, AT\_EMPTY\_PATH) = 0

23259 fcntl(3, F\_SETFL, O\_RDWR|O\_NONBLOCK <unfinished ...>

23337 mmap(NULL, 909560, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

23259 <... fcntl resumed>) = 0

23337 <... mmap resumed>) = 0x7f66bfd32000

23259 fcntl(3, F\_GETFL <unfinished ...>

23337 mmap(0x7f66bfd42000, 471040, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x10000 <unfinished ...>

23259 <... fcntl resumed>) = 0x802 (flags O\_RDWR|O\_NONBLOCK)

23337 <... mmap resumed>) = 0x7f66bfd42000

23259 fcntl(3, F\_SETFL, O\_RDWR|O\_NONBLOCK <unfinished ...>

23337 mmap(0x7f66bfdb5000, 368640, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x83000 <unfinished ...>

23259 <... fcntl resumed>) = 0

23337 <... mmap resumed>) = 0x7f66bfdb5000

23259 getpid( <unfinished ...>

23337 mmap(0x7f66bfe0f000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xdc000 <unfinished ...>

23259 <... getpid resumed>) = 23259

23337 <... mmap resumed>) = 0x7f66bfe0f000

23259 getpid( <unfinished ...>

23337 close(3 <unfinished ...>

23259 <... getpid resumed>) = 23259

23337 <... close resumed>) = 0

23259 getrandom( <unfinished ...>

23337 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libmd.so.0", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23259 <... getrandom resumed>"\x7a\xb6\x91\x09\x26\x9b\xc2\x19\x0b\x15\x50\x15\xf1\x5f\xad\x86", 16, 0) = 16

23337 <... openat resumed>) = 3

23259 getrandom( <unfinished ...>

23337 read(3, <unfinished ...>

23259 <... getrandom resumed>"\xad\xde\x6f\xf4\x6f\x34\x78\x63\x43\x45\xfa\x8b\xbf\xc4\x35\xbb", 16, 0) = 16

23337 <... read resumed>"\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

23259 eventfd2(0, EFD\_CLOEXEC <unfinished ...>

23337 newfstatat(3, "", <unfinished ...>

23259 <... eventfd2 resumed>) = 4

23337 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=47312, ...}, AT\_EMPTY\_PATH) = 0

23259 fcntl(4, F\_GETFL <unfinished ...>

23337 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

23259 <... fcntl resumed>) = 0x2 (flags O\_RDWR)

23337 <... mmap resumed>) = 0x7f66bfd30000

23259 fcntl(4, F\_SETFL, O\_RDWR|O\_NONBLOCK <unfinished ...>

23337 mmap(NULL, 49384, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

23259 <... fcntl resumed>) = 0

23337 <... mmap resumed>) = 0x7f66bfd23000

23259 fcntl(4, F\_GETFL <unfinished ...>

23337 mmap(0x7f66bfd25000, 28672, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000 <unfinished ...>

23259 <... fcntl resumed>) = 0x802 (flags O\_RDWR|O\_NONBLOCK)

23337 <... mmap resumed>) = 0x7f66bfd25000

23259 fcntl(4, F\_SETFL, O\_RDWR|O\_NONBLOCK <unfinished ...>

23337 mmap(0x7f66bfd2c000, 8192, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x9000 <unfinished ...>

23259 <... fcntl resumed>) = 0

23337 <... mmap resumed>) = 0x7f66bfd2c000

23259 getpid( <unfinished ...>

23337 mmap(0x7f66bfd2e000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xa000 <unfinished ...>

23259 <... getpid resumed>) = 23259

23337 <... mmap resumed>) = 0x7f66bfd2e000

23259 epoll\_create1(EPOLL\_CLOEXEC <unfinished ...>

23337 close(3 <unfinished ...>

23259 <... epoll\_create1 resumed>) = 5

23337 <... close resumed>) = 0

23259 epoll\_ctl(5, EPOLL\_CTL\_ADD, 4, {events=0, data={u32=1359313664, u64=94860007013120}} <unfinished ...>

23337 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libpthread.so.0", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23259 <... epoll\_ctl resumed>) = 0

23337 <... openat resumed>) = 3

23259 epoll\_ctl(5, EPOLL\_CTL\_MOD, 4, {events=EPOLLIN, data={u32=1359313664, u64=94860007013120}} <unfinished ...>

23337 read(3, <unfinished ...>

23259 <... epoll\_ctl resumed>) = 0

23337 <... read resumed>"\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

23259 getpid( <unfinished ...>

23337 newfstatat(3, "", <unfinished ...>

23259 <... getpid resumed>) = 23259

23337 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=14480, ...}, AT\_EMPTY\_PATH) = 0

23259 rt\_sigaction(SIGRT\_1, {sa\_handler=0x7fcafb52d6a0, sa\_mask=[], sa\_flags=SA\_RESTORER|SA\_ONSTACK|SA\_RESTART|SA\_SIGINFO, sa\_restorer=0x7fcafb4e3050}, <unfinished ...>

23337 mmap(NULL, 16400, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

23259 <... rt\_sigaction resumed>NULL, 8) = 0

23337 <... mmap resumed>) = 0x7f66bfd1e000

23259 rt\_sigprocmask(SIG\_UNBLOCK, [RTMIN RT\_1], <unfinished ...>

23337 mmap(0x7f66bfd1f000, 4096, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1000 <unfinished ...>

23259 <... rt\_sigprocmask resumed>NULL, 8) = 0

23337 <... mmap resumed>) = 0x7f66bfd1f000

23259 mmap(NULL, 8392704, PROT\_NONE, MAP\_PRIVATE|MAP\_ANONYMOUS|MAP\_STACK, -1, 0 <unfinished ...>

23337 mmap(0x7f66bfd20000, 4096, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000 <unfinished ...>

23259 <... mmap resumed>) = 0x7fcafa839000

23337 <... mmap resumed>) = 0x7f66bfd20000

23259 mprotect(0x7fcafa83a000, 8388608, PROT\_READ|PROT\_WRITE <unfinished ...>

23337 mmap(0x7f66bfd21000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000 <unfinished ...>

23259 <... mprotect resumed>) = 0

23337 <... mmap resumed>) = 0x7f66bfd21000

23259 rt\_sigprocmask(SIG\_BLOCK, ~[], <unfinished ...>

23337 close(3 <unfinished ...>

23259 <... rt\_sigprocmask resumed>[], 8) = 0

23337 <... close resumed>) = 0

23259 clone3({flags=CLONE\_VM|CLONE\_FS|CLONE\_FILES|CLONE\_SIGHAND|CLONE\_THREAD|CLONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID|CLONE\_CHILD\_CLEARTID, child\_tid=0x7fcafb039990, parent\_tid=0x7fcafb039990, exit\_signal=0, stack=0x7fcafa839000, stack\_size=0x7ffd00, tls=0x7fcafb0396c0} <unfinished ...>

23337 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libkrb5.so.3", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23259 <... clone3 resumed> => {parent\_tid=[23338]}, 88) = 23338

23337 <... openat resumed>) = 3

23259 rt\_sigprocmask(SIG\_SETMASK, [], <unfinished ...>

23338 rseq(0x7fcafb039fe0, 0x20, 0, 0x53053053 <unfinished ...>

23259 <... rt\_sigprocmask resumed>NULL, 8) = 0

23337 read(3, <unfinished ...>

23259 eventfd2(0, EFD\_CLOEXEC <unfinished ...>

23338 <... rseq resumed>) = 0

23259 <... eventfd2 resumed>) = 6

23337 <... read resumed>"\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

23259 fcntl(6, F\_GETFL <unfinished ...>

23338 set\_robust\_list(0x7fcafb0399a0, 24 <unfinished ...>

23259 <... fcntl resumed>) = 0x2 (flags O\_RDWR)

23337 newfstatat(3, "", <unfinished ...>

23259 fcntl(6, F\_SETFL, O\_RDWR|O\_NONBLOCK <unfinished ...>

23338 <... set\_robust\_list resumed>) = 0

23259 <... fcntl resumed>) = 0

23337 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=888080, ...}, AT\_EMPTY\_PATH) = 0

23259 fcntl(6, F\_GETFL <unfinished ...>

23338 rt\_sigprocmask(SIG\_SETMASK, [], <unfinished ...>

23259 <... fcntl resumed>) = 0x802 (flags O\_RDWR|O\_NONBLOCK)

23337 mmap(NULL, 890784, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

23259 fcntl(6, F\_SETFL, O\_RDWR|O\_NONBLOCK <unfinished ...>

23338 <... rt\_sigprocmask resumed>NULL, 8) = 0

23259 <... fcntl resumed>) = 0

23337 <... mmap resumed>) = 0x7f66bfc44000

23259 getpid( <unfinished ...>

23338 rt\_sigprocmask(SIG\_BLOCK, ~[RTMIN RT\_1], <unfinished ...>

23259 <... getpid resumed>) = 23259

23337 mmap(0x7f66bfc67000, 389120, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x23000 <unfinished ...>

23259 epoll\_create1(EPOLL\_CLOEXEC <unfinished ...>

23338 <... rt\_sigprocmask resumed>NULL, 8) = 0

23259 <... epoll\_create1 resumed>) = 7

23337 <... mmap resumed>) = 0x7f66bfc67000

23259 epoll\_ctl(7, EPOLL\_CTL\_ADD, 6, {events=0, data={u32=1359317584, u64=94860007017040}} <unfinished ...>

23338 sched\_getparam(23338, <unfinished ...>

23259 <... epoll\_ctl resumed>) = 0

23337 mmap(0x7f66bfcc6000, 294912, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x82000 <unfinished ...>

23259 epoll\_ctl(7, EPOLL\_CTL\_MOD, 6, {events=EPOLLIN, data={u32=1359317584, u64=94860007017040}} <unfinished ...>

23338 <... sched\_getparam resumed>[0]) = 0

23259 <... epoll\_ctl resumed>) = 0

23338 sched\_getscheduler(23338 <unfinished ...>

23337 <... mmap resumed>) = 0x7f66bfcc6000

23259 mmap(NULL, 8392704, PROT\_NONE, MAP\_PRIVATE|MAP\_ANONYMOUS|MAP\_STACK, -1, 0 <unfinished ...>

23338 <... sched\_getscheduler resumed>) = 0 (SCHED\_OTHER)

23259 <... mmap resumed>) = 0x7fcafa038000

23337 mmap(0x7f66bfd0e000, 65536, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xc9000 <unfinished ...>

23259 mprotect(0x7fcafa039000, 8388608, PROT\_READ|PROT\_WRITE <unfinished ...>

23338 sched\_setscheduler(23338, SCHED\_OTHER, [0] <unfinished ...>

23259 <... mprotect resumed>) = 0

23337 <... mmap resumed>) = 0x7f66bfd0e000

23259 rt\_sigprocmask(SIG\_BLOCK, ~[], <unfinished ...>

23338 <... sched\_setscheduler resumed>) = 0

23259 <... rt\_sigprocmask resumed>[], 8) = 0

23337 close(3 <unfinished ...>

23259 clone3({flags=CLONE\_VM|CLONE\_FS|CLONE\_FILES|CLONE\_SIGHAND|CLONE\_THREAD|CLONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID|CLONE\_CHILD\_CLEARTID, child\_tid=0x7fcafa838990, parent\_tid=0x7fcafa838990, exit\_signal=0, stack=0x7fcafa038000, stack\_size=0x7ffd00, tls=0x7fcafa8386c0} <unfinished ...>

23338 prctl(PR\_SET\_NAME, "ZMQbg/Reaper" <unfinished ...>

23337 <... openat resumed>) = 3

23259 recvmsg(9, <unfinished ...>

23337 read(3, <unfinished ...>

23259 <... recvmsg resumed>{msg\_name={sa\_family=AF\_NETLINK, nl\_pid=0, nl\_groups=00000000}, msg\_namelen=12, msg\_iov=[{iov\_base=[[{nlmsg\_len=76, nlmsg\_type=RTM\_NEWADDR, nlmsg\_flags=NLM\_F\_MULTI, nlmsg\_seq=1734028239, nlmsg\_pid=23259}, {ifa\_family=AF\_INET, ifa\_prefixlen=8, ifa\_flags=IFA\_F\_PERMANENT, ifa\_scope=RT\_SCOPE\_HOST, ifa\_index=if\_nametoindex("lo")}, [[{nla\_len=8, nla\_type=IFA\_ADDRESS}, inet\_addr("127.0.0.1")], [{nla\_len=8, nla\_type=IFA\_LOCAL}, inet\_addr("127.0.0.1")], [{nla\_len=7, nla\_type=IFA\_LABEL}, "lo"], [{nla\_len=8, nla\_type=IFA\_FLAGS}, IFA\_F\_PERMANENT], [{nla\_len=20, nla\_type=IFA\_CACHEINFO}, {ifa\_prefered=4294967295, ifa\_valid=4294967295, cstamp=8207426, tstamp=8207426}]]], [{nlmsg\_len=88, nlmsg\_type=RTM\_NEWADDR, nlmsg\_flags=NLM\_F\_MULTI, nlmsg\_seq=1734028239, nlmsg\_pid=23259}, {ifa\_family=AF\_INET, ifa\_prefixlen=16, ifa\_flags=IFA\_F\_PERMANENT, ifa\_scope=RT\_SCOPE\_UNIVERSE, ifa\_index=if\_nametoindex("eth0")}, [[{nla\_len=8, nla\_type=IFA\_ADDRESS}, inet\_addr("172.17.0.2")], [{nla\_len=8, nla\_type=IFA\_LOCAL}, inet\_addr("172.17.0.2")], [{nla\_len=8, nla\_type=IFA\_BROADCAST}, inet\_addr("172.17.255.255")], [{nla\_len=9, nla\_type=IFA\_LABEL}, "eth0"], [{nla\_len=8, nla\_type=IFA\_FLAGS}, IFA\_F\_PERMANENT], [{nla\_len=20, nla\_type=IFA\_CACHEINFO}, {ifa\_prefered=4294967295, ifa\_valid=4294967295, cstamp=8207446, tstamp=8207446}]]]], iov\_len=4096}], msg\_iovlen=1, msg\_controllen=0, msg\_flags=0}, 0) = 164

23337 <... read resumed>"\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

23259 recvmsg(9, <unfinished ...>

23337 newfstatat(3, "", <unfinished ...>

23259 <... recvmsg resumed>{msg\_name={sa\_family=AF\_NETLINK, nl\_pid=0, nl\_groups=00000000}, msg\_namelen=12, msg\_iov=[{iov\_base=[{nlmsg\_len=72, nlmsg\_type=RTM\_NEWADDR, nlmsg\_flags=NLM\_F\_MULTI, nlmsg\_seq=1734028239, nlmsg\_pid=23259}, {ifa\_family=AF\_INET6, ifa\_prefixlen=128, ifa\_flags=IFA\_F\_PERMANENT, ifa\_scope=RT\_SCOPE\_HOST, ifa\_index=if\_nametoindex("lo")}, [[{nla\_len=20, nla\_type=IFA\_ADDRESS}, inet\_pton(AF\_INET6, "::1")], [{nla\_len=20, nla\_type=IFA\_CACHEINFO}, {ifa\_prefered=4294967295, ifa\_valid=4294967295, cstamp=8207426, tstamp=8207426}], [{nla\_len=8, nla\_type=IFA\_FLAGS}, IFA\_F\_PERMANENT]]], iov\_len=4096}], msg\_iovlen=1, msg\_controllen=0, msg\_flags=0}, 0) = 72

23337 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=18344, ...}, AT\_EMPTY\_PATH) = 0

23259 recvmsg(9, <unfinished ...>

23337 mmap(NULL, 20552, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

23259 <... 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=1734028239, nlmsg\_pid=23259}, 0], iov\_len=4096}], msg\_iovlen=1, msg\_controllen=0, msg\_flags=0}, 0) = 20

23337 <... mmap resumed>) = 0x7f66bfc11000

23259 close(9 <unfinished ...>

23337 mmap(0x7f66bfc13000, 4096, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000 <unfinished ...>

23259 <... close resumed>) = 0

23337 <... mmap resumed>) = 0x7f66bfc13000

23259 **socket**(AF\_INET, SOCK\_STREAM|SOCK\_CLOEXEC, IPPROTO\_TCP <unfinished ...>

23337 mmap(0x7f66bfc14000, 4096, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x3000 <unfinished ...>

23259 <... socket resumed>) = 9

23337 <... mmap resumed>) = 0x7f66bfc14000

23259 setsockopt(9, SOL\_SOCKET, SO\_REUSEADDR, [1], 4 <unfinished ...>

23337 mmap(0x7f66bfc15000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x3000 <unfinished ...>

23259 <... setsockopt resumed>) = 0

23337 <... mmap resumed>) = 0x7f66bfc15000

23259 **bind**(9, {sa\_family=AF\_INET, sin\_port=htons(5556), sin\_addr=inet\_addr("127.0.0.1")}, 16 <unfinished ...>

23337 close(3 <unfinished ...>

23259 <... bind resumed>) = 0

23337 <... close resumed>) = 0

23259 listen(9, 100 <unfinished ...>

23337 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libkrb5support.so.0", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23259 <... listen resumed>) = 0

23337 <... openat resumed>) = 3

23259 getsockname(9, <unfinished ...>

23337 read(3, <unfinished ...>

23259 <... getsockname resumed>{sa\_family=AF\_INET, sin\_port=htons(5556), sin\_addr=inet\_addr("127.0.0.1")}, [128 => 16]) = 0

23337 <... read resumed>"\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

23259 getsockname(9, <unfinished ...>

23337 newfstatat(3, "", <unfinished ...>

23259 <... getsockname resumed>{sa\_family=AF\_INET, sin\_port=htons(5556), sin\_addr=inet\_addr("127.0.0.1")}, [128 => 16]) = 0

23337 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=52224, ...}, AT\_EMPTY\_PATH) = 0

23259 getpid( <unfinished ...>

23337 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

23259 <... getpid resumed>) = 23259

23337 <... mmap resumed>) = 0x7f66bfc0f000

23259 write(6, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>

23337 mmap(NULL, 54632, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

23259 <... write resumed>) = 8

23339 <... epoll\_wait resumed>[{events=EPOLLIN, data={u32=1359317584, u64=94860007017040}}], 256, -1) = 1

23259 getpid( <unfinished ...>

23337 <... mmap resumed>) = 0x7f66bfc01000

23259 <... getpid resumed>) = 23259

23339 getpid( <unfinished ...>

23259 write(8, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>

23337 mmap(0x7f66bfc04000, 24576, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x3000 <unfinished ...>

23259 <... write resumed>) = 8

23339 <... getpid resumed>) = 23259

23259 newfstatat(1, "", <unfinished ...>

23337 <... mmap resumed>) = 0x7f66bfc04000

23259 <... newfstatat resumed>{st\_mode=S\_IFCHR|0620, st\_rdev=makedev(0x88, 0), ...}, AT\_EMPTY\_PATH) = 0

23339 poll([{fd=6, events=POLLIN}], 1, 0 <unfinished ...>

23259 write(1, "Ok: 23337\n", 10 <unfinished ...>

23337 mmap(0x7f66bfc0a000, 12288, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x9000 <unfinished ...>

23259 <... write resumed>) = 10

23339 <... poll resumed>) = 1 ([{fd=6, revents=POLLIN}])

23259 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>

23337 <... mmap resumed>) = 0x7f66bfc0a000

23339 getpid( <unfinished ...>

23337 mmap(0x7f66bfc0d000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xb000 <unfinished ...>

23339 <... getpid resumed>) = 23259

23337 <... mmap resumed>) = 0x7f66bfc0d000

23339 read(6, <unfinished ...>

23337 close(3 <unfinished ...>

23339 <... read resumed>"\1\0\0\0\0\0\0\0", 8) = 8

23337 <... close resumed>) = 0

23339 mmap(NULL, 134217728, PROT\_NONE, MAP\_PRIVATE|MAP\_ANONYMOUS|MAP\_NORESERVE, -1, 0 <unfinished ...>

23337 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libkeyutils.so.1", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23339 <... mmap resumed>) = 0x7fcaf2038000

23337 <... openat resumed>) = 3

23339 munmap(0x7fcaf2038000, 33325056 <unfinished ...>

23337 read(3, <unfinished ...>

23339 <... munmap resumed>) = 0

23337 <... read resumed>"\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

23339 munmap(0x7fcaf8000000, 33783808 <unfinished ...>

23337 newfstatat(3, "", <unfinished ...>

23339 <... munmap resumed>) = 0

23337 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=22448, ...}, AT\_EMPTY\_PATH) = 0

23339 mprotect(0x7fcaf4000000, 135168, PROT\_READ|PROT\_WRITE <unfinished ...>

23337 mmap(NULL, 24592, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

23339 <... mprotect resumed>) = 0

23337 <... mmap resumed>) = 0x7f66bfbfa000

23339 epoll\_ctl(7, EPOLL\_CTL\_ADD, 9, {events=0, data={u32=4093643632, u64=140509653764976}} <unfinished ...>

23337 mmap(0x7f66bfbfc000, 8192, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000 <unfinished ...>

23339 <... epoll\_ctl resumed>) = 0

23337 <... mmap resumed>) = 0x7f66bfbfc000

23339 epoll\_ctl(7, EPOLL\_CTL\_MOD, 9, {events=EPOLLIN, data={u32=4093643632, u64=140509653764976}} <unfinished ...>

23337 mmap(0x7f66bfbfe000, 4096, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000 <unfinished ...>

23339 <... epoll\_ctl resumed>) = 0

23337 <... mmap resumed>) = 0x7f66bfbfe000

23339 getpid( <unfinished ...>

23337 mmap(0x7f66bfbff000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000 <unfinished ...>

23339 <... getpid resumed>) = 23259

23337 <... mmap resumed>) = 0x7f66bfbff000

23339 poll([{fd=6, events=POLLIN}], 1, 0 <unfinished ...>

23337 close(3 <unfinished ...>

23339 <... poll resumed>) = 0 (Timeout)

23337 <... close resumed>) = 0

23339 epoll\_wait(7, <unfinished ...>

23337 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libresolv.so.2", O\_RDONLY|O\_CLOEXEC) = 3

23337 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

23337 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=60328, ...}, AT\_EMPTY\_PATH) = 0

23337 mmap(NULL, 68136, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f66bfbe9000

23337 mmap(0x7f66bfbec000, 32768, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x3000) = 0x7f66bfbec000

23337 mmap(0x7f66bfbf4000, 8192, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xb000) = 0x7f66bfbf4000

23337 mmap(0x7f66bfbf6000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xd000) = 0x7f66bfbf6000

23337 mmap(0x7f66bfbf8000, 6696, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7f66bfbf8000

23337 close(3) = 0

23337 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f66bfbe7000

23337 mmap(NULL, 12288, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f66bfbe4000

23337 arch\_prctl(ARCH\_SET\_FS, 0x7f66bfbe49c0) = 0

23337 set\_tid\_address(0x7f66bfbe4c90) = 23337

23337 set\_robust\_list(0x7f66bfbe4ca0, 24) = 0

23337 rseq(0x7f66bfbe52e0, 0x20, 0, 0x53053053) = 0

23337 mprotect(0x7f66c021d000, 16384, PROT\_READ) = 0

23337 mprotect(0x7f66bfbf6000, 4096, PROT\_READ) = 0

23337 mprotect(0x7f66bfbff000, 4096, PROT\_READ) = 0

23337 mprotect(0x563e896f6000, 4096, PROT\_READ) = 0

23337 mprotect(0x7f66c05c1000, 8192, PROT\_READ) = 0

23337 prlimit64(0, RLIMIT\_STACK, NULL, {rlim\_cur=8192\*1024, rlim\_max=RLIM64\_INFINITY}) = 0

23337 munmap(0x7f66c0588000, 26550) = 0

23337 futex(0x7f66c04c773c, FUTEX\_WAKE\_PRIVATE, 2147483647) = 0

23337 getrandom("\x9f\x85\x90\xfb\x76\x83\xaf\x2f", 8, GRND\_NONBLOCK) = 8

23337 brk(NULL) = 0x563e8abb5000

23337 brk(0x563e8abd6000) = 0x563e8abd6000

23337 getpid() = 23337

23337 openat(AT\_FDCWD, "/sys/devices/system/cpu/online", O\_RDONLY|O\_CLOEXEC) = 3

23337 read(3, "0-17\n", 1024) = 5

23337 close(3) = 0

23337 openat(AT\_FDCWD, "/sys/devices/system/cpu/possible", O\_RDONLY|O\_CLOEXEC) = 3

23337 read(3, "0-17\n", 1024) = 5

23337 close(3) = 0

23337 getpid() = 23337

23337 sched\_getaffinity(23337, 128, [0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17]) = 32

23337 newfstatat(AT\_FDCWD, "/etc/nsswitch.conf", {st\_mode=S\_IFREG|0644, st\_size=494, ...}, 0) = 0

23337 newfstatat(AT\_FDCWD, "/", {st\_mode=S\_IFDIR|0755, st\_size=4096, ...}, 0) = 0

23337 openat(AT\_FDCWD, "/etc/nsswitch.conf", O\_RDONLY|O\_CLOEXEC) = 3

23337 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=494, ...}, AT\_EMPTY\_PATH) = 0

23337 read(3, "# /etc/nsswitch.conf\n#\n# Example"..., 4096) = 494

23337 read(3, "", 4096) = 0

23337 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=494, ...}, AT\_EMPTY\_PATH) = 0

23337 close(3) = 0

23337 openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC) = 3

23337 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=26550, ...}, AT\_EMPTY\_PATH) = 0

23337 mmap(NULL, 26550, PROT\_READ, MAP\_PRIVATE, 3, 0) = 0x7f66c0588000

23337 close(3) = 0

23337 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/glibc-hwcaps/x86-64-v3/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

23337 newfstatat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/glibc-hwcaps/x86-64-v3", 0x7fff2a043c60, 0) = -1 ENOENT (No such file or directory)

23337 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/glibc-hwcaps/x86-64-v2/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

23337 newfstatat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/glibc-hwcaps/x86-64-v2", 0x7fff2a043c60, 0) = -1 ENOENT (No such file or directory)

23341 <... getpid resumed>) = 23337

23339 <... epoll\_ctl resumed>) = 0

23341 poll([{fd=6, events=POLLIN}], 1, 0 <unfinished ...>

23339 epoll\_ctl(7, EPOLL\_CTL\_MOD, 10, {events=EPOLLIN|EPOLLOUT, data={u32=4093643728, u64=140509653765072}} <unfinished ...>

23341 <... poll resumed>) = 1 ([{fd=6, revents=POLLIN}])

23339 <... epoll\_ctl resumed>) = 0

23341 getpid( <unfinished ...>

23339 **recvfrom**(10, <unfinished ...>

23341 <... getpid resumed>) = 23337

23339 <... recvfrom resumed>0x7fcaf40012f8, 12, 0, NULL, NULL) = -1 EAGAIN (Resource temporarily unavailable)

23341 read(6, <unfinished ...>

23339 getpid( <unfinished ...>

23341 <... read resumed>"\1\0\0\0\0\0\0\0", 8) = 8

23339 <... getpid resumed>) = 23259

23341 epoll\_ctl(7, EPOLL\_CTL\_ADD, 9, {events=0, data={u32=3087012912, u64=140079150404656}} <unfinished ...>

23339 poll([{fd=6, events=POLLIN}], 1, 0 <unfinished ...>

23341 <... epoll\_ctl resumed>) = 0

23339 <... poll resumed>) = 0 (Timeout)

23341 epoll\_ctl(7, EPOLL\_CTL\_MOD, 9, {events=EPOLLIN, data={u32=3087012912, u64=140079150404656}} <unfinished ...>

23339 epoll\_wait(7, <unfinished ...>

23341 <... epoll\_ctl resumed>) = 0

23339 <... epoll\_wait resumed>[{events=EPOLLOUT, data={u32=4093643728, u64=140509653765072}}], 256, 29999) = 1

23341 epoll\_ctl(7, EPOLL\_CTL\_MOD, 9, {events=EPOLLIN|EPOLLOUT, data={u32=3087012912, u64=140079150404656}} <unfinished ...>

23339 **sendto**(10, "\377\0\0\0\0\0\0\0\1\177", 10, 0, NULL, 0 <unfinished ...>

23341 <... epoll\_ctl resumed>) = 0

23339 <... sendto resumed>) = 10

23341 **recvfrom**(9, <unfinished ...>

23339 epoll\_ctl(7, EPOLL\_CTL\_MOD, 10, {events=EPOLLIN, data={u32=4093643728, u64=140509653765072}} <unfinished ...>

23341 <... recvfrom resumed>"\377\0\0\0\0\0\0\0\1\177", 12, 0, NULL, NULL) = 10

23339 <... epoll\_ctl resumed>) = 0

23341 **recvfrom**(9, <unfinished ...>

23339 epoll\_wait(7, <unfinished ...>

23341 <... recvfrom resumed>0x7f66b8001bf2, 2, 0, NULL, NULL) = -1 EAGAIN (Resource temporarily unavailable)

23341 getpid() = 23337

23341 poll([{fd=6, events=POLLIN}], 1, 0) = 0 (Timeout)

23341 epoll\_wait(7, [{events=EPOLLOUT, data={u32=3087012912, u64=140079150404656}}], 256, 29998) = 1

23341 **sendto**(9, "\377\0\0\0\0\0\0\0\1\177\3", 11, 0, NULL, 0) = 11

23339 <... epoll\_wait resumed>[{events=EPOLLIN, data={u32=4093643728, u64=140509653765072}}], 256, 29998) = 1

23341 epoll\_ctl(7, EPOLL\_CTL\_MOD, 9, {events=EPOLLIN, data={u32=3087012912, u64=140079150404656}} <unfinished ...>

23339 **recvfrom**(10, <unfinished ...>

23341 <... epoll\_ctl resumed>) = 0

23339 <... recvfrom resumed>"\377\0\0\0\0\0\0\0\1\177\3", 12, 0, NULL, NULL) = 11

23341 epoll\_wait(7, <unfinished ...>

23339 epoll\_ctl(7, EPOLL\_CTL\_MOD, 10, {events=EPOLLIN|EPOLLOUT, data={u32=4093643728, u64=140509653765072}}) = 0

23339 **recvfrom**(10, 0x7fcaf4001303, 53, 0, NULL, NULL) = -1 EAGAIN (Resource temporarily unavailable)

23339 epoll\_wait(7, [{events=EPOLLOUT, data={u32=4093643728, u64=140509653765072}}], 256, 29995) = 1

23339 sendto(10, "\3\1NULL\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0"..., 54, 0, NULL, 0 <unfinished ...>

23341 <... epoll\_wait resumed>[{events=EPOLLIN, data={u32=3087012912, u64=140079150404656}}], 256, 29997) = 1

23339 <... sendto resumed>) = 54

23341 recvfrom(9, <unfinished ...>

23339 epoll\_ctl(7, EPOLL\_CTL\_MOD, 10, {events=EPOLLIN, data={u32=4093643728, u64=140509653765072}} <unfinished ...>

23341 <... recvfrom resumed>"\3\1", 2, 0, NULL, NULL) = 2

23339 <... epoll\_ctl resumed>) = 0

23341 epoll\_ctl(7, EPOLL\_CTL\_MOD, 9, {events=EPOLLIN|EPOLLOUT, data={u32=3087012912, u64=140079150404656}} <unfinished ...>

23339 epoll\_wait(7, <unfinished ...>

23341 <... epoll\_ctl resumed>) = 0

23341 **recvfrom**(9, "NULL\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0"..., 52, 0, NULL, NULL) = 52

23341 recvfrom(9, 0x7f66b8003d18, 8192, 0, NULL, NULL) = -1 EAGAIN (Resource temporarily unavailable)

23341 epoll\_wait(7, [{events=EPOLLOUT, data={u32=3087012912, u64=140079150404656}}], 256, 29995) = 1

23341 **sendto**(9, "\1NULL\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0"..., 53, 0, NULL, 0) = 53

23339 <... epoll\_wait resumed>[{events=EPOLLIN, data={u32=4093643728, u64=140509653765072}}], 256, 29994) = 1

23341 epoll\_wait(7, <unfinished ...>

23339 recvfrom(10, <unfinished ...>

23341 <... epoll\_wait resumed>[{events=EPOLLOUT, data={u32=3087012912, u64=140079150404656}}], 256, 29994) = 1

23339 <... recvfrom resumed>"\1NULL\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0"..., 53, 0, NULL, NULL) = 53

23341 **sendto**(9, "\4)\5READY\vSocket-Type\0\0\0\6DEALER\10I"..., 43, 0, NULL, 0 <unfinished ...>

23339 epoll\_ctl(7, EPOLL\_CTL\_MOD, 10, {events=EPOLLIN|EPOLLOUT, data={u32=4093643728, u64=140509653765072}} <unfinished ...>

23341 <... sendto resumed>) = 43

23339 <... epoll\_ctl resumed>) = 0

23341 epoll\_wait(7, <unfinished ...>

23339 recvfrom(10, <unfinished ...>

23341 <... epoll\_wait resumed>[{events=EPOLLOUT, data={u32=3087012912, u64=140079150404656}}], 256, 29994) = 1

23339 <... **recvfrom** resumed>"\4)\5READY\vSocket-Type\0\0\0\6DEALER\10I"..., 8192, 0, NULL, NULL) = 43

23341 epoll\_ctl(7, EPOLL\_CTL\_MOD, 9, {events=EPOLLIN, data={u32=3087012912, u64=140079150404656}} <unfinished ...>

23339 epoll\_wait(7, <unfinished ...>

23341 <... epoll\_ctl resumed>) = 0

23339 <... epoll\_wait resumed>[{events=EPOLLOUT, data={u32=4093643728, u64=140509653765072}}], 256, 29992) = 1

23341 epoll\_wait(7, <unfinished ...>

23339 futex(0x7fcafb91f748, FUTEX\_WAKE\_PRIVATE, 2147483647) = 0

23339 **sendto**(10, "\4)\5READY\vSocket-Type\0\0\0\6DEALER\10I"..., 43, 0, NULL, 0 <unfinished ...>

23341 <... epoll\_wait resumed>[{events=EPOLLIN, data={u32=3087012912, u64=140079150404656}}], 256, 29993) = 1

23339 <... sendto resumed>) = 43

23341 **recvfrom**(9, <unfinished ...>

23339 epoll\_wait(7, <unfinished ...>

23341 <... recvfrom resumed>"\4)\5READY\vSocket-Type\0\0\0\6DEALER\10I"..., 8192, 0, NULL, NULL) = 43

23339 <... epoll\_wait resumed>[{events=EPOLLOUT, data={u32=4093643728, u64=140509653765072}}], 256, -1) = 1

23341 epoll\_ctl(7, EPOLL\_CTL\_MOD, 9, {events=EPOLLIN|EPOLLOUT, data={u32=3087012912, u64=140079150404656}} <unfinished ...>

23339 epoll\_ctl(7, EPOLL\_CTL\_MOD, 10, {events=EPOLLIN, data={u32=4093643728, u64=140509653765072}} <unfinished ...>

23341 <... epoll\_ctl resumed>) = 0

23339 <... epoll\_ctl resumed>) = 0

23341 epoll\_ctl(7, EPOLL\_CTL\_MOD, 9, {events=EPOLLIN, data={u32=3087012912, u64=140079150404656}} <unfinished ...>

23339 epoll\_wait(7, <unfinished ...>

23341 <... epoll\_ctl resumed>) = 0

23341 epoll\_wait(7, <unfinished ...>

23259 <... clock\_nanosleep resumed>NULL) = 0

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 1 ([{fd=8, revents=POLLIN}])

23259 getpid() = 23259

23259 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 pselect6(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid( <unfinished ...>

23417 <... clock\_nanosleep resumed>NULL) = 0

23259 <... getpid resumed>) = 23259

23417 getpid( <unfinished ...>

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23417 <... getpid resumed>) = 23417

23259 <... poll resumed>) = 0 (Timeout)

23417 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23417 <... poll resumed>) = 0 (Timeout)

23259 <... pselect6 resumed>) = 0 (Timeout)

23417 **clock\_nanosleep**(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

....

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23430 <... epoll\_ctl resumed>) = 0

23259 <... pselect6 resumed>) = 0 (Timeout)

23430 **sendto**(9, "\08\4\0\0\0\2\0\0\0\3\0\0\0\0\0\0\0\357+[g\0\0\0\0kol\0\312\177"..., 58, 0, NULL, 0 <unfinished ...>

23259 getpid( <unfinished ...>

23430 <... sendto resumed>) = 58

23419 <... epoll\_wait resumed>[{events=EPOLLIN, data={u32=2952793040, u64=140079016184784}}], 256, -1) = 1

23259 <... getpid resumed>) = 23259

23430 getpid( <unfinished ...>

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23419 **recvfrom**(17, <unfinished ...>

23259 <... poll resumed>) = 0 (Timeout)

23430 <... getpid resumed>) = 23417

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23419 <... recvfrom resumed>"\08\4\0\0\0\2\0\0\0\3\0\0\0\0\0\0\0\357+[g\0\0\0\0kol\0\312\177"..., 8192, 0, NULL, NULL) = 58

23259 <... pselect6 resumed>) = 0 (Timeout)

23430 poll([{fd=6, events=POLLIN}], 1, 0 <unfinished ...>

23259 getpid( <unfinished ...>

23419 getpid( <unfinished ...>

23259 <... getpid resumed>) = 23259

23430 <... poll resumed>) = 0 (Timeout)

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23419 <... getpid resumed>) = 23337

23259 <... poll resumed>) = 0 (Timeout)

23430 epoll\_wait(7, <unfinished ...>

23259 pselect6(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23419 write(15, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>

23259 <... pselect6 resumed>) = 0 (Timeout)

23430 <... epoll\_wait resumed>[{events=EPOLLOUT, data={u32=335549488, u64=140570320180272}}], 256, -1) = 1

23259 getpid( <unfinished ...>

23419 <... write resumed>) = 8

23259 <... getpid resumed>) = 23259

23430 epoll\_ctl(7, EPOLL\_CTL\_MOD, 9, {events=EPOLLIN, data={u32=335549488, u64=140570320180272}} <unfinished ...>

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23419 epoll\_wait(14, <unfinished ...>

23259 <... poll resumed>) = 0 (Timeout)

23430 <... epoll\_ctl resumed>) = 0

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23430 epoll\_wait(7, <unfinished ...>

23259 <... **pselect6** resumed>) = 0 (Timeout)

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23337 <... clock\_nanosleep resumed>NULL) = 0

23259 getpid( <unfinished ...>

23337 getpid( <unfinished ...>

23259 <... getpid resumed>) = 23259

23337 <... getpid resumed>) = 23337

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23337 poll([{fd=15, events=POLLIN}], 1, 0 <unfinished ...>

23259 <... poll resumed>) = 0 (Timeout)

23337 <... poll resumed>) = 1 ([{fd=15, revents=POLLIN}])

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23337 getpid( <unfinished ...>

23259 <... pselect6 resumed>) = 0 (Timeout)

23337 <... getpid resumed>) = 23337

23259 getpid( <unfinished ...>

23337 read(15, <unfinished ...>

23259 <... getpid resumed>) = 23259

23337 <... read resumed>"\1\0\0\0\0\0\0\0", 8) = 8

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23337 getpid( <unfinished ...>

23259 <... poll resumed>) = 0 (Timeout)

23337 <... getpid resumed>) = 23337

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23337 poll([{fd=15, events=POLLIN}], 1, 0 <unfinished ...>

23259 <... pselect6 resumed>) = 0 (Timeout)

23337 <... poll resumed>) = 0 (Timeout)

23259 <... getpid resumed>) = 23259

23337 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23341 <... poll resumed>) = 1 ([{fd=6, revents=POLLIN}])

23259 <... poll resumed>) = 0 (Timeout)

23337 <... poll resumed>) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23341 getpid( <unfinished ...>

23259 <... pselect6 resumed>) = 0 (Timeout)

23337 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>

23259 getpid( <unfinished ...>

23341 <... getpid resumed>) = 23337

23259 <... getpid resumed>) = 23259

23341 read(6, <unfinished ...>

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23341 <... read resumed>"\1\0\0\0\0\0\0\0", 8) = 8

23259 <... poll resumed>) = 0 (Timeout)

23341 epoll\_ctl(7, EPOLL\_CTL\_MOD, 9, {events=EPOLLIN|EPOLLOUT, data={u32=3087012912, u64=140079150404656}} <unfinished ...>

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23341 <... epoll\_ctl resumed>) = 0

23259 <... pselect6 resumed>) = 0 (Timeout)

23341 **sendto**(9, "\08\4\0\0\0\2\0\0\0\3\0\0\0\0\0\0\0\357+[g\0\0\0\0kol\0\312\177"..., 58, 0, NULL, 0 <unfinished ...>

23259 getpid( <unfinished ...>

23341 <... sendto resumed>) = 58

23339 <... epoll\_wait resumed>[{events=EPOLLIN, data={u32=4093643728, u64=140509653765072}}], 256, -1) = 1

23259 <... getpid resumed>) = 23259

23341 getpid( <unfinished ...>

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23339 **recvfrom**(10, <unfinished ...>

23259 <... poll resumed>) = 0 (Timeout)

23341 <... getpid resumed>) = 23337

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23339 <... recvfrom resumed>"\08\4\0\0\0\2\0\0\0\3\0\0\0\0\0\0\0\357+[g\0\0\0\0kol\0\312\177"..., 8192, 0, NULL, NULL) = 58

23259 <... pselect6 resumed>) = 0 (Timeout)

23341 poll([{fd=6, events=POLLIN}], 1, 0 <unfinished ...>

23259 getpid( <unfinished ...>

23339 getpid( <unfinished ...>

23259 <... getpid resumed>) = 23259

23341 <... poll resumed>) = 0 (Timeout)

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23430 getpid( <unfinished ...>

23259 <... pselect6 resumed>) = 0 (Timeout)

23419 **recvfrom**(17, <unfinished ...>

23259 getpid( <unfinished ...>

23430 <... getpid resumed>) = 23417

23259 <... getpid resumed>) = 23259

23419 <... recvfrom resumed>"\08\2\0\0\0\2\0\0\0\0\0\0\0\0\0\0\0\362+[g\0\0\0\0kol\0\312\177"..., 8192, 0, NULL, NULL) = 58

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23430 poll([{fd=6, events=POLLIN}], 1, 0 <unfinished ...>

23259 <... poll resumed>) = 0 (Timeout)

23419 getpid( <unfinished ...>

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23430 <... poll resumed>) = 0 (Timeout)

23259 <... pselect6 resumed>) = 0 (Timeout)

23419 <... getpid resumed>) = 23337

23259 getpid( <unfinished ...>

23430 epoll\_wait(7, <unfinished ...>

23259 <... getpid resumed>) = 23259

23419 write(15, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23430 <... epoll\_wait resumed>[{events=EPOLLOUT, data={u32=335549488, u64=140570320180272}}], 256, -1) = 1

23259 <... poll resumed>) = 0 (Timeout)

23419 <... write resumed>) = 8

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23430 epoll\_ctl(7, EPOLL\_CTL\_MOD, 9, {events=EPOLLIN, data={u32=335549488, u64=140570320180272}} <unfinished ...>

23259 <... pselect6 resumed>) = 0 (Timeout)

23419 epoll\_wait(14, <unfinished ...>

23259 getpid( <unfinished ...>

23430 <... epoll\_ctl resumed>) = 0

23259 <... getpid resumed>) = 23259

23430 epoll\_wait(7, <unfinished ...>

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

...

23259 <... poll resumed>) = 0 (Timeout)

23341 getpid( <unfinished ...>

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23337 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>

23259 <... pselect6 resumed>) = 0 (Timeout)

23341 <... getpid resumed>) = 23337

23259 getpid( <unfinished ...>

23341 read(6, <unfinished ...>

23259 <... getpid resumed>) = 23259

23341 <... read resumed>"\1\0\0\0\0\0\0\0", 8) = 8

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23341 epoll\_ctl(7, EPOLL\_CTL\_MOD, 9, {events=EPOLLIN|EPOLLOUT, data={u32=3087012912, u64=140079150404656}} <unfinished ...>

23259 <... poll resumed>) = 0 (Timeout)

23341 <... epoll\_ctl resumed>) = 0

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23341 **sendto**(9, "\08\2\0\0\0\2\0\0\0\0\0\0\0\0\0\0\0\362+[g\0\0\0\0kol\0\312\177"..., 58, 0, NULL, 0 <unfinished ...>

23259 <... pselect6 resumed>) = 0 (Timeout)

23341 <... sendto resumed>) = 58

23339 <... epoll\_wait resumed>[{events=EPOLLIN, data={u32=4093643728, u64=140509653765072}}], 256, -1) = 1

23259 getpid( <unfinished ...>

23341 getpid( <unfinished ...>

23259 <... getpid resumed>) = 23259

23339 recvfrom(10, <unfinished ...>

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23341 <... getpid resumed>) = 23337

23259 <... poll resumed>) = 0 (Timeout)

23339 <... **recvfrom** resumed>"\08\2\0\0\0\2\0\0\0\0\0\0\0\0\0\0\0\362+[g\0\0\0\0kol\0\312\177"..., 8192, 0, NULL, NULL) = 58

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23341 poll([{fd=6, events=POLLIN}], 1, 0 <unfinished ...>

23259 <... pselect6 resumed>) = 0 (Timeout)

23339 getpid( <unfinished ...>

23259 getpid( <unfinished ...>

23341 <... poll resumed>) = 0 (Timeout)

23259 <... getpid resumed>) = 23259

23339 <... getpid resumed>) = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23341 epoll\_wait(7, <unfinished ...>

23259 <... poll resumed>) = 0 (Timeout)

23339 write(8, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23341 <... epoll\_wait resumed>[{events=EPOLLOUT, data={u32=3087012912, u64=140079150404656}}], 256, -1) = 1

23259 <... pselect6 resumed>) = 0 (Timeout)

23339 <... write resumed>) = 8

23259 getpid( <unfinished ...>

23341 epoll\_ctl(7, EPOLL\_CTL\_MOD, 9, {events=EPOLLIN, data={u32=3087012912, u64=140079150404656}} <unfinished ...>

23259 <... getpid resumed>) = 23259

23339 epoll\_wait(7, <unfinished ...>

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23341 <... epoll\_ctl resumed>) = 0

23259 <... poll resumed>) = 1 ([{fd=8, revents=POLLIN}])

23341 epoll\_wait(7, <unfinished ...>

23259 getpid() = 23259

23259 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 write(1, "Ok: 2 is available\n", 19) = 19

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

...

23417 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 pselect6(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid( <unfinished ...>

23337 <... clock\_nanosleep resumed>NULL) = 0

23259 <... getpid resumed>) = 23259

23337 getpid( <unfinished ...>

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23337 <... getpid resumed>) = 23337

23259 <... poll resumed>) = 0 (Timeout)

23337 poll([{fd=15, events=POLLIN}], 1, 0 <unfinished ...>

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23337 <... poll resumed>) = 0 (Timeout)

23259 <... **pselect6** resumed>) = 0 (Timeout)

23337 getpid( <unfinished ...>

23259 getpid( <unfinished ...>

23337 <... getpid resumed>) = 23337

23259 <... getpid resumed>) = 23259

23337 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23337 <... poll resumed>) = 0 (Timeout)

23259 <... poll resumed>) = 0 (Timeout)

23337 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 ..

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23417 <... clock\_nanosleep resumed>NULL) = ? ERESTART\_RESTARTBLOCK (Interrupted by signal)

23337 <... clock\_nanosleep resumed>NULL) = ? ERESTART\_RESTARTBLOCK (Interrupted by signal)

23259 --- SIGINT {si\_signo=SIGINT, si\_code=SI\_KERNEL} ---

23417 --- SIGINT {si\_signo=SIGINT, si\_code=SI\_KERNEL} ---

23339 <... epoll\_wait resumed> <unfinished ...>) = ?

23338 <... epoll\_wait resumed> <unfinished ...>) = ?

23337 --- SIGINT {si\_signo=SIGINT, si\_code=SI\_KERNEL} ---

23430 <... epoll\_wait resumed> <unfinished ...>) = ?

23420 <... epoll\_wait resumed> <unfinished ...>) = ?

23341 <... epoll\_wait resumed>0x7f66bf3def60, 256, -1) = ? ERESTART\_RESTARTBLOCK (Interrupted by signal)

23339 +++ killed by SIGINT +++

23430 +++ killed by SIGINT +++

23420 +++ killed by SIGINT +++

23419 <... epoll\_wait resumed> <unfinished ...>) = ?

23418 <... epoll\_wait resumed> <unfinished ...>) = ?

23417 +++ killed by SIGINT +++

23341 +++ killed by SIGINT +++

23340 <... epoll\_wait resumed> <unfinished ...>) = ?

23338 +++ killed by SIGINT +++

23259 +++ killed by SIGINT +++

23419 +++ killed by SIGINT +++

23418 +++ killed by SIGINT +++

23340 +++ killed by SIGINT +++

23337 +++ killed by SIGINT +++

**Вывод**

Выполняя лабораторные работы курса операционных систем, было очень интересно пользоваться возможностями утилиты strace, она помогала глубже познакомиться с внутренним устройством функций используемых в написании программ, а также исправлять ошибки, подсказывая, где их искать. Обладая большим числом всевозможных флагов и дополнительных возможностей Strace является очень мощной утилитой, которую важно знать.