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

Лабораторная работа №8 по курсу
«Операционные системы»

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Постановка задачи

Вариант 16.

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 `-r` 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 `-g`.
- **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 `-u`. Опция `-uu` 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\3\0>\0\1\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\3\0>\0\1\0\0\0\0\0\0\0\0\0\0"..., 832) = 832
newfstatat(3, "", {st_mode=S_IFREG|0644, st_size=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(0x7bff9351000, 368640, PROT_READ,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x83000) = 0x7bff9351000

mmap(0x7bff93ab000, 8192, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0xdc000) = 0x7bff93ab000

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\3\0>\0\1\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) =
0x7bff92a1000

mmap(0x7bff92a5000, 143360, PROT_READ|PROT_EXEC,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x4000) = 0x7bff92a5000

mmap(0x7bff92c8000, 16384, PROT_READ,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x27000) = 0x7bff92c8000

mmap(0x7bff92cc000, 8192, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x2b000) = 0x7bff92cc000

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\3\0>\0\1\0\0\0\20t\2\0\0\0\0"..., 832) = 832

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

mmap(NULL, 1970000, PROT_READ, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) =
0x7bff90c0000

mmap(0x7bff90e6000, 1396736, PROT_READ|PROT_EXEC,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x26000) = 0x7bff90e6000

mmap(0x7bff923b000, 339968, PROT_READ,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x17b000) = 0x7bff923b000

mmap(0x7bff928e000, 24576, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x1ce000) = 0x7bff928e000

mmap(0x7bff9294000, 53072, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) = 0x7bff9294000

close(3) = 0

mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1,
0) = 0x7bff90be000

arch_prctl(ARCH_SET_FS, 0x7bff90bf480) = 0

set_tid_address(0x7bff90bf750) = 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(0x7bff90bf760, 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=0x7bff90bf750) = 1694
[pid 1694] set_robust_list(0x7bff90bf760, 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> "\177ELF2\1\1\3\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0"...,
832) = 832
[pid 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\3\0>\0\1\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\3\0>\0\1\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\3\0>\0\1\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\3\0>\0\1\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\3\0>\0\1\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\3\0>\0\1\0\0\0\20t\2\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\3\0>\0\1\0\0\0\20t\2\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 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\3\0>\0\1\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\3\0>\0\1\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\3\0>\0\1\0\0\0\20t\2\0\0\0\0"... , 832) = 832

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

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\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_THREA
D|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|CLO
NE_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

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```

openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libm.so.6", O_RDONLY|O_CLOEXEC) = 3
read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0"..., 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\3\0>\0\1\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\3\0>\0\1\0\0\0\20t\2\0\0\0\0"..., 832) = 832
pread64(3, "\6\0\0\0\4\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0"..., 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"..., 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\xe\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
```

[illegible]

```
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
```

$$\text{close}(5) = 0$$

```
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
```

[illegible]

```
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
```

$$\text{close}(5) = 0$$

```
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\3\0>\0\1\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\3\0>\0\1\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\3\0>\0\1\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\3\0>\0\1\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\3\0>\0\1\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\3\0>\0\1\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\3\0>\0\1\0\0\0\20t\2\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"..., 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"..., 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\3\0>\0\1\0\0\0\20t\2\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"..., 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] 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_etime=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-hwcap/x86-64-v3/libPr_2_real1.so", O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

32647 openat(AT_FDCWD, "./glibc-hwcap/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\3\0>\0\1\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\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-hwcap/x86-64-v3/libm.so.6", O_RDONLY|O_CLOEXEC)
= -1 ENOENT (No such file or directory)
32647 openat(AT_FDCWD, "./glibc-hwcap/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\3\0>\0\1\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-hwcap/x86-64-v3/libgcc_s.so.1",
O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
32647 openat(AT_FDCWD, "./glibc-hwcap/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"..., 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-hwcap/x86-64-v3/libc.so.6", O_RDONLY|O_CLOEXEC)
= -1 ENOENT (No such file or directory)
32647 openat(AT_FDCWD, "./glibc-hwcap/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\3\0>\0\1\0\0\0\20t\2\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"..., 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"..., 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 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\3\0>\0\1\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\3\0>\0\1\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\3\0>\0\1\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\3\0>\0\1\0\0\0\20t\2\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"..., 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"..., 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 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\3\0>\0\1\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\3\0>\0\1\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\3\0>\0\1\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\3\0>\0\1\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\3\0>\0\1\0\0\0\20t\2\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"..., 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"..., 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

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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\3\0>\0\1\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\3\0>\0\1\0\0\0\314\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\3\0>\0\1\0\0\0\220I\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\3\0>\0\1\0\0\0\300\246\0\0\0\0\0"..., 832) = 832
23259 newfstatat(3, "", {st_mode=S_IFREG|0644, st_size=489480, ...}, AT_EMPTY_PATH) = 0

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23259 mmap(NULL, 1214976, PROT_READ, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) =
0x7fcafb2bc000
23259 mprotect(0x7fcafb2c6000, 438272, PROT_NONE) = 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\3\0>\0\1\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 read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0"..., 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\3\0>\0\1\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\3\0>\0\1\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\3\0>\0\1\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

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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\3\0>\0\1\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\3\0>\0\1\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

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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(0x7fcafb19000, 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\xcc\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"], 0x7ffcaebd3b8 /* 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#\nExample"..., 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 ...>

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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>0x7ffcaeb9fd0, 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>0x7ffcaeb9fd0, 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>0x7ffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)
23337 <... read resumed>"\177ELF\2\1\1\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0"..., 832)
= 832
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>0x7ffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)
23337 <... mmap resumed>)          = 0x7f66c04cb000

```



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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>0x7ffcaeb9fd0, 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-hwcap/x86-64-v3", <unfinished ...>
23337 read(3, <unfinished ...>
23259 <... newfstatat resumed>0x7ffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)
23337 <... read resumed>"\177ELF2\1\1\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0"..., 832)
= 832
23259 openat(AT_FDCWD, "/lib/glibc-hwcap/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-hwcap/x86-64-v2", <unfinished ...>
23337 mmap(NULL, 86224, PROT_READ, MAP_PRIVATE|MAP_DENYWRITE, 3, 0
<unfinished ...>
23259 <... newfstatat resumed>0x7ffcaeb9fd0, 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>0x7ffcaeb9fd0, 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>0x7ffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)
23337 <... mmap resumed>) = 0x7f66c004e000

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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>0x7ffcaeb9fd0, 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>"\177ELF2\1\1\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\314\0\0\0\0\0"..., 832)
= 832
23259 newfstatat(AT_FDCWD, "/lib/tls", <unfinished ...>
23337 newfstatat(3, "", <unfinished ...>
23259 <... newfstatat resumed>0x7ffcaeb9fd0, 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>0x7ffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)
23337 <... mmap resumed>)           = 0x7f66bffd000
23259 openat(AT_FDCWD, "/lib/haswell/libnss_db.so.2", O_RDONLY|O_CLOEXEC
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>"\177ELF2\1\1\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\220I\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>0x7ffcaeb9fd0, 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

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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>0x7ffcaeb9fd0, 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(0x7f66bfd7000, 8192, PROT_READ|PROT_WRITE,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x49000 <unfinished ...>
23259 <... newfstatat resumed>0x7ffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)
23337 <... mmap resumed>          = 0x7f66bfd7000
23259 openat(AT_FDCWD, "/usr/lib/tls/haswell/libnss_db.so.2", O_RDONLY|O_CLOEXEC
<unfinished ...>
23337 mmap(0x7f66bfd9000, 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>          = 0x7f66bfd9000
23259 newfstatat(AT_FDCWD, "/usr/lib/tls/haswell", <unfinished ...>
23337 close(3 <unfinished ...>
23259 <... newfstatat resumed>0x7ffcaeb9fd0, 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>0x7ffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)
23337 <... read resumed>"\177ELF\2\1\1\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\300\246\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>0x7ffcaeb9fd0, 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 ...>

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23337 mmap(0x7f66bfe6e000, 278528, PROT_READ|PROT_EXEC,
MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0xa000 <unfinished ...>
23259 <... newfstatat resumed>0x7ffcaeb9fd0, 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>0x7ffcaeb9fd0, 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>0x7ffcaeb9fd0, 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>"\177ELF2\1\1\0\0\0\0\0\0\0\0\3\0>\0\1\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 ...>

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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>"\177ELF2\1\1\3\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0"..., 832)
= 832
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

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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>"\177ELF2\1\1\0\0\0\0\0\0\0\0\3\0>\0\1\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>"\177ELF2\1\1\0\0\0\0\0\0\0\0\3\0>\0\1\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|CLO
NE_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"..., 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
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>"\177ELF2\1\1\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0"..., 832)
= 832
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=NLMMSG_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 ...>

```



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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>"\177ELF2\1\1\0\0\0\0\0\0\0\0\3\0>\0\1\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", 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", 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=1000000000}, <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", 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>) = 0x7fcdf2038000
23337 <... openat resumed>) = 3
23339 munmap(0x7fcdf2038000, 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"..., 832)
= 832
23339 munmap(0x7fcdf8000000, 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(0x7fcdf4000000, 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\3\0>\0\1\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(0x7f66bfbf000, 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#\nExample"..., 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>0x7fc4f40012f8, 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", 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\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\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 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\Socket-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\Socket-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\Socket-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", 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\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\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", 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", 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=1000000000}, <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", 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
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=1000000000}, <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", 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\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\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", 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", 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=1000000000}, <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)
=0, tv_nsec=1000000000}, <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, были изучены возможности 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 необходимо знать.