ФЕДЕРАЛЬНОЕ ГОСУДАРСТВЕННОЕ БЮДЖЕТНОЕ ОБРАЗОВАТЕЛЬНОЕ УЧРЕЖДЕНИЕ ВЫСШЕГО ОБРАЗОВАНИЯ "МОСКОВСКИЙ АВИАЦИОННЫЙ ИНСТИТУТ (НАЦИОНАЛЬНЫЙ ИССЛЕДОВАТЕЛЬСКИЙ УНИВЕРСИТЕТ)"

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Кафедра: 806 «Вычислительная математика и программирование»

Лабораторная работа № 1 по курсу по курсу «Операционные системы»

Группа: М8о-307Б-18

Студент:

Тояков Артем Олегович

Преподаватель:

Миронов Евгений Сергеевич Опенка:

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1.Постановка задачи

В данной лабораторной работе нужно продемонстрировать умения работы с strace, а также протестировать все лабораторные работы с помощью strace.

2. Диагностика Strace

// Лр 2

```
artoy@artoy:~/Desktop/Labs/3 sem/OS/Lab2$ strace ./a.out
execve("./a.out", ["./a.out"], 0x7ffc2c245ec0 /* 70 vars */) = 0
brk(NULL) = 0x5566607c5000
access("/etc/ld.so.nohwcap", F_OK) = -1 ENOENT (No such file or directory)
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
fstat(3, {st_mode=S_IFREG|0644, st_size=89848, ...}) = 0
mmap(NULL, 89848, PROT_READ, MAP_PRIVATE, 3, 0) = 0x7f42f6c4e000
close(3) = 0
access("/etc/ld.so.nohwcap", F OK) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libc.so.6", O_RDONLY|O_CLOEXEC) = 3
fstat(3, {st_mode=S_IFREG|0755, st_size=2030544, ...}) = 0
mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) = 0x7f42f6c4c000
mmap(NULL, 4131552, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) = 0x7f42f664c000
mprotect(0x7f42f6833000, 2097152, PROT_NONE) = 0
mmap(0x7f42f6a33000, 24576, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1e7000) = 0x1e7000 + 0x1e70
0x7f42f6a33000
mmap(0x7f42f6a39000, 15072, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) =
0x7f42f6a39000
close(3) = 0
arch_prctl(ARCH_SET_FS, 0x7f42f6c4d4c0) = 0
mprotect(0x7f42f6a33000, 16384, PROT_READ) = 0
mprotect(0x55665ebce000, 4096, PROT_READ) = 0
mprotect(0x7f42f6c64000, 4096, PROT_READ) = 0
munmap(0x7f42f6c4e000, 89848) = 0
brk(NULL) = 0x5566607c5000
brk(0x5566607e6000) = 0x5566607e6000
pipe([3, 6]) = 0
pipe([7, 8]) = 0
clone(child stack=NULL, flags=CLONE CHILD CLEARTIDICLONE CHILD SETTIDISIGCHLD, child tidptr=0x7f42f6c4d790) = 8785
close(6) = 0
close(8) = 0
dup2(3, 0) = 0
close(0) = 0
wait4(-1, myfile
qweuqwiewq uqwheqw
uwqheuqwhehwqhe qweiwq
qiwheiqe kqwjeiqwe
ieawawe
[{WIFEXITED(s) && WEXITSTATUS(s) == 0}], 0, NULL) = 8785
   SIGCHLD (si_signo=SIGCHLD, si_code=CLD_EXITED, si_pid=8785, si_uid=1000, si_status=0, si_utime=0, si_stime=0)
close(3) = 0
close(7) = 0
exit_group(0) = ?
+++ exited with 0 +++
```

//Лр 3

```
\stackrel{-}{@} artoy \stackrel{-}{@} artoy : \sim /Desktop/Labs/3 \ sem/OS/Lab3\$ \ strace \ ./a.out \ 2 < t1.txt
 execve("./a.out", ["./a.out", "2"], 0x7ffc4c23e238 /* 70 \text{ vars }*/) = 0
                                                                               = 0x56118287c000
                                                                                                     = -1 ENOENT (No such file or directory)
 access("/etc/ld.so.nohwcap", F_OK)
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
 fstat(3, {st_mode=S_IFREG|0644, st_size=89848, ...}) = 0
mmap(NULL, 89848, PROT_READ, MAP_PRIVATE, 3, 0) = 0x7ffa1dec5000
                                                                        =0
close(3)
access("/etc/ld.so.nohwcap", F_OK) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libpthread.so.0", O_RDONLY|O_CLOEXEC) = 3
fstat(3, {st_mode=S_IFREG|0755, st_size=144976, ...}) = 0
mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) = 0x7ffa1dec3000
mmap(NULL, 2221184, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) = 0x7ffa1da95000
mprotect(0x7ffa1daaf000, 2093056, PROT_NONE) = 0
mmap(0x7ffa1dcae000, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x19000) = 0x7ffa1dcae000
mmap(0x7ffa1dcb0000, 13440, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) = 0x7ffa1dcb0000
close(3)
                                                                       = 0
access("/etc/ld.so.nohwcap", F_OK)
                                                                                                     = -1 ENOENT (No such file or directory)
 openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libc.so.6", O_RDONLY|O_CLOEXEC) = 3
fstat(3, {st_mode=S_IFREG|0755, st_size=2030544, ...}) = 0
 mmap(NULL, 4131552, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) = 0x7ffa1d6a4000
mprotect(0x7ffa1d88b000, 2097152, PROT_NONE) = 0
mmap(0x7ffa1da8b000, 24576, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1e7000) = 0x7ffa1da8b000 \\ mmap(0x7ffa1da91000, 15072, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7ffa1da91000 \\ mmap(0x7ffa1da91000, 15072, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7ffa1da91000 \\ mmap(0x7ffa1da91000, 15072, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7ffa1da91000 \\ mmap(0x7ffa1da91000, 15072, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7ffa1da91000 \\ mmap(0x7ffa1da91000, 15072, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7ffa1da91000 \\ mmap(0x7ffa1da91000, 15072, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7ffa1da91000 \\ mmap(0x7ffa1da91000, 15072, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7ffa1da91000 \\ mmap(0x7ffa1da91000, 15072, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7ffa1da91000 \\ mmap(0x7ffa1da91000, 15072, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7ffa1da91000 \\ mmap(0x7ffa1da91000, 15072, PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7ffa1da91000 \\ mmap(0x7ffa1da91000, 15072, PROT\_WRITE, MAP\_ANONYMOUS, -1, 0) = 0x7ffa1da91000 \\ mmap(0x7ffa1da91000, 15072, PROT\_WRITE, MAP\_ANONYMOUS, -1, 0) = 0x7ffa1da91000 \\ mmap(0x7ffa1da91000, 15072, PROT\_WRITE, MAP\_ANONYMOUS, -1, 0) = 0x7ffa1da91000 \\ mmap(0x7ffa1da91000, 15072, PROT\_WRITE, MAP\_ANONYMOUS, -1, 0) = 0x7ffa1da91000 \\ mmap(0x7ffa1da91000, 15072, PROT\_WRITE, MAP\_ANONYMOUS, -1, 0) = 0x7ffa1da91000 \\ mmap(0x7ffa1da91000, 15072, PROT\_WRITE, MAP\_ANONYMOUS, -1, 0) = 0x7ffa1da91000 \\ mmap(0x7ffa1da91000, 15072, PROT\_WRITE, -1, 0) = 0x7ffa1da91000 \\ mmap(0x7ffa1da91000, 15072, PROT\_WRITE, -1, 0) = 0x7ffa1da91000 \\ mmap(0x7ffa1da91000, 15072, PROT\_WRITE, -1, 0) = 0x7ffa1da91000 \\ mmap(0x7ffa1da91000, 15072, -1, 0) = 0x7ffa1da91000 \\ mmap(0x7ffa1da91000, 15072, -1, 0) = 0x7ffa1da91000 \\ mmap(0x7ffa1da91000, -1, 0) = 0x7ffa1da9100
                                                                        =0
mmap(NULL, 12288, PROT READ|PROT WRITE, MAP PRIVATE|MAP ANONYMOUS, -1, 0) = 0x7ffa1dec0000
arch_prctl(ARCH_SET_FS, 0x7ffa1dec0740) = 0
 mprotect(0x7ffa1da8b000, 16384, PROT_READ) = 0
mprotect(0x7ffa1dcae000, 4096, PROT_READ) = 0
mprotect(0x561181b9d000, 4096, PROT READ) = 0
mprotect(0x7ffa1dedb000, 4096, PROT_READ) = 0
munmap(0x7ffa1dec5000, 89848)
                                                                                                         =0
set tid address(0x7ffa1dec0a10)
                                                                                                    = 23712
set\_robust\_list(0x7ffa1dec0a20, 24) = 0
rt_sigaction(SIGRTMIN, {sa_handler=0x7ffa1da9acb0, sa_mask=[], sa_flags=SA_RESTORER|SA_SIGINFO, sa_restorer=0x7ffa1daa78a0}, NULL,
rt_sigaction(SIGRT_1, {sa_handler=0x7ffa1da9ad50, sa_mask=[], sa_flags=SA_RESTORER|SA_RESTART|SA_SIGINFO,
 sa_restorer=0x7ffa1daa78a0}, NULL, 8) = 0
rt_sigprocmask(SIG_UNBLOCK, [RTMIN RT_1], NULL, 8) = 0
prlimit64(0, RLIMIT STACK, NULL, {rlim cur=8192*1024, rlim max=RLIM64 INFINITY}) = 0
fstat(0, {st_mode=S_IFREG|0664, st_size=181, ...}) = 0
brk(NULL)
                                                                               =0x56118287c000
brk(0x56118289d000)
                                                                                            = 0x56118289d000
read(0, "1\n3 3\n7 7\n58 -86 42 -10 5 -92 -9"..., 4096) = 181
mmap(NULL, 8392704, PROT_NONE, MAP_PRIVATE/MAP_ANONYMOUS/MAP_STACK, -1, 0) = 0x7ffa1cea3000
mprotect(0x7ffa1cea4000, 8388608, PROT_READ|PROT_WRITE) = 0
clone(child_stack=0x7ffa1d6a2fb0,
flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN
 T\_SETTID|CLONE\_CHILD\_CLEARTID, parent\_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child\_tidptr=0x7ffa1d6a39d0) = 23713
mmap(NULL, 8392704, PROT_NONE, MAP_PRIVATE|MAP_ANONYMOUS|MAP_STACK, -1, 0) = 0x7ffa1c6a2000
mprotect(0x7ffa1c6a3000, 8388608, PROT_READ|PROT_WRITE) = 0
clone(child stack=0x7ffa1cea1fb0.
 flags = CLONE\_VM|CLONE\_FS|CLONE\_FILES|CLONE\_SIGHAND|CLONE\_THREAD|CLONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PAREN|CLONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PAREN|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE\_PAREN|CLONE_PAREN|CLONE_PAREN|CLONE_PAREN|CLONE_PAREN|CLONE_PAREN|CLONE_PAREN|CLONE_PAREN
 T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child_tidptr=0x7ffa1cea29d0) = 23714
futex(0x7ffa1cea29d0, FUTEX_WAIT, 23714, NULL) = -1 EAGAIN (Resource temporarily unavailable)
 clone(child_stack=0x7ffa1cea1fb0,
 flags = CLONE\_VM|CLONE\_FS|CLONE\_FILES|CLONE\_SIGHAND|CLONE\_THREAD|CLONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PAREN|CLONE\_FS|CLONE\_FILES|CLONE\_SIGHAND|CLONE\_THREAD|CLONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PAREN|CLONE\_FS|CLONE\_PAREN|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_PAREN|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CLONE\_FS|CL
 T SETTIDICLONE CHILD CLEARTID, parent tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child tidptr=0x7ffa1cea29d0) = 23715
clone(child stack=0x7ffa1d6a2fb0.
 flags = CLONE\_VM | CLONE\_FS | CLONE\_FILES | CLONE\_SIGHAND | CLONE\_THREAD | CLONE\_SYSVSEM | CLONE\_SETTLS | CLONE\_PAREN | CLONE\_FS |
 T\_SETTID|CLONE\_CHILD\_CLEARTID, parent\_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child\_tidptr=0x7ffa1d6a39d0) = 23716
 clone(child stack=0x7ffa1d6a2fb0,
flags = CLONE\_VM|CLONE\_FS|CLONE\_FILES|CLONE\_SIGHAND|CLONE\_THREAD|CLONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PARENCE | CLONE\_SIGHAND|CLONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PARENCE | CLONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PARENCE | CLONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PARENCE | CLONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PARENCE | CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PARENCE | CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE\_SYSVSEM|CLONE_SYSVSEM|CLONE_SYSVSEM|CLONE_SYSVSEM|CLONE_SYSVSEM|CLONE_SYSVSEM|CLONE_SYSVSEM|CLONE_SYSVSEM|CLONE_SYSVSEM|CLONE_SYSVSEM|CLONE_SYSVSEM|CLONE_SYSVSEM|CLONE_SYSVSEM|CLONE_SYSVSEM|CLONE_SYSVSEM|CLONE_SYSVSEM
 T\_SETTID|CLONE\_CHILD\_CLEARTID, parent\_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a3700, child\_tidptr=0x7ffa1d6a39d0) = 23717
clone(child stack=0x7ffa1cea1fb0,
 flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN
T\_SETTID|CLONE\_CHILD\_CLEARTID, parent\_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child\_tidptr=0x7ffa1cea29d0) = 23718
 clone(child_stack=0x7ffa1cea1fb0,
flags=CLONE VM|CLONE FS|CLONE FILES|CLONE SIGHAND|CLONE THREAD|CLONE SYSVSEM|CLONE SETTLS|CLONE PAREN
```

T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child_tidptr=0x7ffa1cea29d0) = 23719

- clone(child_stack=0x7ffa1d6a2fb0,
- $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN_T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a3700, child_tidptr=0x7ffa1d6a39d0) = 23720 \\ clone(child_stack=0x7ffa1d6a2fb0).$
- $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN \\ T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr = 0x7ffa1d6a39d0, tls = 0x7ffa1d6a37d0, child_tidptr = 0x7ffa1d6a39d0) = 23721 \\ clone(child_stack = 0x7ffa1cea1fb0).$
- $flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN_T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child_tidptr=0x7ffa1cea29d0) = 23722 clone(child_stack=0x7ffa1cea1fb0).$
- $flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN \\ T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child_tidptr=0x7ffa1cea29d0) = 23723 \\ clone(child_stack=0x7ffa1d6a2fb0,$
- $flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a3700, child_tidptr=0x7ffa1d6a39d0) = 23724 \\ clone(child_stack=0x7ffa1d6a2fb0,$
- $flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN_T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a3700, child_tidptr=0x7ffa1d6a39d0) = 23725 clone(child_stack=0x7ffa1cea1fb0,$
- $flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN \\ T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child_tidptr=0x7ffa1cea29d0) = 23726 \\ clone(child_stack=0x7ffa1cea1fb0,$
- $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN \\ T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child_tidptr=0x7ffa1cea29d0) = 23727 \\ clone(child_stack=0x7ffa1d6a2fb0,$
- $flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN \\ T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a3700, child_tidptr=0x7ffa1d6a39d0) = 23728 \\ clone(child_stack=0x7ffa1d6a2fb0,$
- $flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN \\ T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a3700, child_tidptr=0x7ffa1d6a39d0) = 23729 \\ clone(child_stack=0x7ffa1cea1fb0).$
- $flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN \\ T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child_tidptr=0x7ffa1cea29d0) = 23730 \\ clone(child_stack=0x7ffa1cea1fb0,$
- $flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN \\ T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child_tidptr=0x7ffa1cea29d0) = 23731 \\ clone(child_stack=0x7ffa1d6a2fb0,$
- $flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a3700, child_tidptr=0x7ffa1d6a39d0) = 23732 \\ clone(child_stack=0x7ffa1d6a2fb0,$
- $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN_T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a3700, child_tidptr=0x7ffa1d6a39d0) = 23733 \\ clone(child_stack=0x7ffa1cea1fb0, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23733 \\ clone(child_stack=0x7ffa1cea1fb0, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23733 \\ clone(child_stack=0x7ffa1cea1fb0, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23733 \\ clone(child_stack=0x7ffa1cea1fb0, parent_tidptr=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23733 \\ clone(child_stack=0x7ffa1cea1fb0, parent_tidptr=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23733 \\ clone(child_stack=0x7ffa1cea1fb0, parent_tidptr=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0, child_tidptr=0x7ffa1d6a39d0) = 23733 \\ clone(child_stack=0x7ffa1cea1fb0, parent_tidptr=0x7ffa1d6a39d0, child_tidptr=0x7ffa1d6a39d0, child$
- $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN_T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child_tidptr=0x7ffa1cea29d0) = 23734 clone(child_stack=0x7ffa1cea1fb0,$
- $flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN \\ T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child_tidptr=0x7ffa1cea29d0) = 23735 \\ clone(child_stack=0x7ffa1d6a2fb0).$
- $flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN \\ T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a3700, child_tidptr=0x7ffa1d6a39d0) = 23736 \\ clone(child_stack=0x7ffa1d6a2fb0,$
- $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a3700, child_tidptr=0x7ffa1d6a39d0) = 23737-clone(child_stack=0x7ffa1cea1fb0, tls=0x7ffa1cea1fb0, tls=0x7f$
- $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN_T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child_tidptr=0x7ffa1cea29d0) = 23738 \\ clone(child_stack=0x7ffa1cea1fb0).$
- $flags=CLONE_VM|CLONE_FS|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN \\ T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child_tidptr=0x7ffa1cea29d0) = 23739 \\ clone(child_stack=0x7ffa1d6a2fb0,$
- $\label{thm:cone_system} flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a3700, child_tidptr=0x7ffa1d6a39d0) = 23740 \\ clone(child_stack=0x7ffa1d6a2fb0).$
- $flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN \\ T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a3700, child_tidptr=0x7ffa1d6a39d0) = 23741 \\ clone(child_stack=0x7ffa1cea1fb0,$
- $flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN \\ T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child_tidptr=0x7ffa1cea29d0) = 23742 \\ clone(child_stack=0x7ffa1cea1fb0,$
- $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr = 0x7ffa1cea29d0, tls = 0x7ffa1cea27d0, child_tidptr = 0x7ffa1cea29d0) = 23743 clone(child_stack = 0x7ffa1d6a2fb0, described) = 23743 c$
- $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN_T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a3700, child_tidptr=0x7ffa1d6a39d0) = 23744 \\ clone(child_stack=0x7ffa1d6a2fb0,$
- $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23745$

```
clone(child_stack=0x7ffa1cea1fb0,
```

flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN $T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child_tidptr=0x7ffa1cea29d0) = 23746$ clone(child stack=0x7ffa1cea1fb0.

flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN T SETTIDICLONE CHILD CLEARTID, parent tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child tidptr=0x7ffa1cea29d0) = 23747 clone(child_stack=0x7ffa1d6a2fb0.

flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN $T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a3700, child_tidptr=0x7ffa1d6a39d0) = 23748$ clone(child stack=0x7ffa1d6a2fb0,

flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN $T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23749$ clone(child stack=0x7ffa1cea1fb0,

flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child_tidptr=0x7ffa1cea29d0) = 23750 clone(child_stack=0x7ffa1cea1fb0,

flags=CLONE VM|CLONE FS|CLONE FILES|CLONE SIGHAND|CLONE THREAD|CLONE SYSVSEM|CLONE SETTLS|CLONE PAREN clone(child_stack=0x7ffa1d6a2fb0,

flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a3700, child_tidptr=0x7ffa1d6a39d0) = 23752 clone(child_stack=0x7ffa1d6a2fb0,

flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN $T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a3700, child_tidptr=0x7ffa1d6a39d0) = 23753d1d6a39d0, tls=0x7ffa1d6a39d0, tls=0x7ffa1d6a39d0, child_tidptr=0x7ffa1d6a39d0) = 23753d1d6a39d0, tls=0x7ffa1d6a39d0, tls=0x7ff$ clone(child_stack=0x7ffa1cea1fb0.

 $flags = CLONE_VM | CLONE_FS | CLONE_FILES | CLONE_SIGHAND | CLONE_THREAD | CLONE_SYSVSEM | CLONE_SETTLS | CLONE_PAREN | CLONE_FS |$ T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child_tidptr=0x7ffa1cea29d0) = 23754 clone(child stack=0x7ffa1cea1fb0,

flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child_tidptr=0x7ffa1cea29d0) = 23755 clone(child stack=0x7ffa1d6a2fb0,

flags=CLONE VM|CLONE FS|CLONE FILES|CLONE SIGHAND|CLONE THREAD|CLONE SYSVSEM|CLONE SETTLS|CLONE PAREN $T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23756$ clone(child_stack=0x7ffa1d6a2fb0,

flags=CLONE VM|CLONE FS|CLONE FILES|CLONE SIGHAND|CLONE THREAD|CLONE SYSVSEM|CLONE SETTLS|CLONE PAREN $T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a3700, child_tidptr=0x7ffa1d6a39d0) = 23757d1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23757d1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23757d1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23757d1d6a39d0, tls=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23757d1d6a39d0, tls=0x7ffa1d6a39d0, tls=0x7ffa1d6a39d0, tls=0x7ffa1d6a39d0, tls=0x7ffa1d6a39d0) = 23757d1d6a39d0, tls=0x7ffa1d6a39d0, tls=0x7ffa$ clone(child_stack=0x7ffa1cea1fb0,

flags=CLONE VM|CLONE FS|CLONE FILES|CLONE SIGHAND|CLONE THREAD|CLONE SYSVSEM|CLONE SETTLS|CLONE PAREN $T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea27d0, child_tidptr=0x7ffa1cea29d0) = 23758$ clone(child stack=0x7ffa1cea1fb0.

flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child_tidptr=0x7ffa1cea29d0) = 23759 clone(child_stack=0x7ffa1d6a2fb0.

flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a3700, child_tidptr=0x7ffa1d6a39d0) = 23760 clone(child stack=0x7ffa1d6a2fb0,

flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN $T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a3700, child_tidptr=0x7ffa1d6a39d0) = 237611d6a39d0, tls=0x7ffa1d6a39d0, tls=0x7ffa1d6a39d0, child_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a39d0, tls=0x7f$ fstat(1, {st_mode=S_IFCHR|0620, st_rdev=makedev(136, 0), ...}) = 0

write(1, "Number of threads: 2\n", 21Number of threads: 2

) = 21

write(1, "Number of filter: 1\n", 20Number of filter: 1

= 20

write(1, "window width: 3\n", 16window width: 3

= 16

write(1, "window height: 3\n", 17window height: 3

= 17

write(1, "width: 7\n", 9width: 7

= 9

write(1, "height: 7\n", 10height: 7

= 10

write(1, "\n", 1

write(1, "Result matrix:\n", 15Result matrix:

= 15

write(1, " 0 0 -14 65 -36 "..., 42 0 0 -14 65 -36 37 -11

) = 42write(1, " 0 -3 -82 42 -10 "..., 42 0 -3 -82 42 -10 5 -3

) = 42write(1, " -26 -20 -19 58 1 "..., 42 -26 -20 -19 58 1 -50 53) = 42

write(1, " 8 -3 -82 -44 30 "..., 42 8 -3 -82 -44 30 -50 34) = 42

write(1, " 41 47 -65 -44 51 "..., 42 41 47 -65 -44 51 -50 37) = 42

write(1, " 16 47 -65 -44 30 "..., 42 16 47 -65 -44 30 -3) = 42

write(1, " 1 1 -29 -4 42 "..., 42 1 1 -29 -4 42 -17 -1

) = 42

```
lseek(0, -1, SEEK_CUR)
                                = 180
                           = ?
exit_group(0)
+++ exited with 0 +++
//Лр 4
artoy@artoy:~/Desktop/Labs/3 sem/OS/Lab4$ strace ./lab4 file1
execve("./lab4", ["./lab4", "file1"], 0x7ffd905e1a38 /* 70 vars */) = 0
brk(NULL) = 0x5560951c2000
access("/etc/ld.so.nohwcap", F_OK) = -1 ENOENT (No such file or directory) 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
fstat(3, {st mode=S IFREG|0644, st size=89848, ...}) = 0
mmap(NULL, 89848, PROT_READ, MAP_PRIVATE, 3, 0) = 0x7f0555104000
close(3) = 0
access("/etc/ld.so.nohwcap", F_OK) = -1 ENOENT (No such file or directory)
fstat(3, {st_mode=S_IFREG|0755, st_size=2030544, ...}) = 0
mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) = 0x7f0555102000
mmap(NULL, 4131552, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) = 0x7f0554b02000
mprotect(0x7f0554ce9000, 2097152, PROT_NONE) = 0
mmap(0x7f0554ee9000, 24576, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x1e7000) =
mmap(0x7f0554eef000, 15072, PROT_READIPROT_WRITE, MAP_PRIVATEIMAP_FIXEDIMAP_ANONYMOUS, -1, 0) =
0x7f0554eef000
close(3) = 0
arch_prctl(ARCH_SET_FS, 0x7f05551034c0) = 0
mprotect(0x7f0554ee9000, 16384, PROT_READ) = 0
mprotect(0x560940e6000, 4096, PROT_READ) = 0
mprotect(0x7f055511a000, 4096, PROT_READ) = 0
munmap(0x7f0555104000, 89848) = 0
brk(NULL) = 0x5560951c2000
brk(0x5560951e3000) = 0x5560951e3000
fstat(0, {st_mode=S_IFCHR|0620, st_rdev=makedev(136, 1), ...}) = 0
read(0, uwerq
"uwerq \n", 1024) = 9 read(0, ekfqwfq fqwhf
"ekfqwfq fqwhf\n", 1024) = 16
read(0, fqjwnfjn
"fqjwnfjn n", 1024) = 10
read(0, qkwnfqw
 gkwnfgw\n", 1024) = 11
read(0, wq fqwifqi
"wq fqwifqi n", 1024) = 13
read(0, "", 1024) = 0
execve("child", ["uwerq \nekfqwfq fqwhf\nfqjwnfj"..., "file1"], 0x7fff32f7b510 /* 70 vars */) = 0
brk(NULL) = 0x5557c27e5000
access("/etc/ld.so.nohwcap", F_OK) = -1 ENOENT (No such file or directory)
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
fstat(3, {st_mode=S_IFREG|0644, st_size=89848, ...}) = 0
mmap(NULL, 89848, PROT_READ, MAP_PRIVATE, 3, 0) = 0x7f4f5e0dd000
close(3) = 0
access("/etc/ld.so.nohwcap", F_OK) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libc.so.6", O_RDONLY|O_CLOEXEC) = 3
fstat(3, {st_mode=S_IFREG|0755, st_size=2030544, ...}) = 0
mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) = 0x7f4f5e0db000
mmap(NULL, 4131552, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) = 0x7f4f5dadb000
mprotect(0x7f4f5dcc2000, 2097152, PROT_NONE) = 0
mmap(0x7f4f5dcc2000, 24576, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x1e7000) =
0x7f4f5dec2000
mmap(0x7f4f5dec8000, 15072, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) =
0x7f4f5dec8000
close(3) = 0
arch_prctl(ARCH_SET_FS, 0x7f4f5e0dc4c0) = 0
mprotect(0x7f4f5dec2000, 16384, PROT_READ) = 0
mprotect(0x5557c200b000, 4096, PROT_READ) = 0
mprotect(0x7f4f5e0f3000, 4096, PROT_READ) = 0
munmap(0x7f4f5e0dd000, 89848) = 0
brk(NULL) = 0x5557c27e5000
brk(0x5557c2806000) = 0x5557c2806000
openat(AT_FDCWD, "file1", O_RDWR|O_CREAT|O_TRUNC, 0666) = 3
Iseek(3, 52, SEEK_SET) = 52
write(3, "\0", 1) = 1
mmap(NULL, 52, PROT_READ|PROT_WRITE, MAP_SHARED, 3, 0) = 0x7f4f5e0f2000
exit_group(0) = ?
+++ exited with 0 +++
```

//Лр5

```
artoy@artoy:~/Desktop/Labs/3 sem/OS/Lab5$ strace ./dnm
execve("./dnm", ["./dnm"], 0x7ffe36d06ac0 /* 70 vars */) = 0
brk(NULL) = 0x55963cc81000
access("/etc/ld.so.nohwcap", F_OK) = -1 ENOENT (No such file or directory)
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
fstat(3, {st_mode=S_IFREG|0644, st_size=89848, ...}) = 0
mmap(NULL, 89848, PROT_READ, MAP_PRIVATE, 3, 0) = 0x7f942b85d000
close(3) = 0
access("/etc/ld.so.nohwcap", F_OK) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libdl.so.2", O_RDONLY|O_CLOEXEC) = 3
fstat(3, {st_mode=S_IFREG|0644, st_size=14560, ...}) = 0
mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) = 0x7f942b85b000
mmap(NULL, 2109712, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) = 0x7f942b448000
mprotect(0x7f942b44b000, 2093056, PROT_NONE) = 0
mmap(0x7f942b64a000, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x2000)
= 0x7f942b64a000
close(3) = 0
access("/etc/ld.so.nohwcap", F_OK) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libc.so.6", O_RDONLY|O_CLOEXEC) = 3
fstat(3, {st_mode=S_IFREG|0755, st_size=2030544, ...}) = 0
mmap(NULL, 4131552, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) = 0x7f942b057000
mprotect(0x7f942b23e000, 2097152, PROT_NONE) = 0
mmap(0x7f942b43e000, 24576, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3,
0x1e7000) = 0x7f942b43e000
mmap(0x7f942b444000, 15072, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) =
0x7f942b444000
close(3) = 0
mmap(NULL, 12288, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) = 0x7f942b858000
arch_prctl(ARCH_SET_FS, 0x7f942b858740) = 0
mprotect(0x7f942b43e000, 16384, PROT_READ) = 0
mprotect(0x7f942b64a000, 4096, PROT_READ) = 0
mprotect(0x55963bd48000, 4096, PROT_READ) = 0
mprotect(0x7f942b873000, 4096, PROT_READ) = 0
munmap(0x7f942b85d000, 89848) = 0
brk(NULL) = 0x55963cc81000
brk(0x55963cca2000) = 0x55963cca2000
openat(AT_FDCWD, "./libBST.so", O_RDONLY|O_CLOEXEC) = 3
fstat(3, {st_mode=S_IFREG|0775, st_size=16016, ...}) = 0
getcwd("/home/artoy/Desktop/Labs/3 sem/OS/Lab5", 128) = 39
mmap(NULL, 2105456, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) = 0x7f942ae54000
mprotect(0x7f942ae55000, 2097152, PROT_NONE) = 0
mmap(0x7f942b055000, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x1000)
= 0x7f942b055000
close(3) = 0
mprotect(0x7f942b055000, 4096, PROT_READ) = 0
fstat(1, {st_mode=S_IFCHR|0620, st_rdev=makedev(136, 0), ...}) = 0
fstat(0, {st_mode=S_IFCHR|0620, st_rdev=makedev(136, 0), ...}) = 0
write(1, "Please, enter your firt info ", 29Please, enter your firt info ) = 29
```

```
read(0, 1
"1\n", 1024) = 2
write(1, "Add: press a \n", 14Add: press a
) = 14
write(1, "Delete element: press d \n", 25Delete element: press d
) = 25
write(1, "Print: press p \n", 16Print: press p
write(1, "Help: press h \n", 15Help: press h
) = 15
write(1, "Exit: press e \n", 15Exit: press e
) = 15
read(0, a
"a\n", 1024) = 2
write(1, "Enter your element", 19Enter your element) = 19
read(0, -5
"-5\n", 1024) = 3
read(0, a
"a\n", 1024) = 2
write(1, "Enter your element", 19Enter your element) = 19
read(0, 20
"20\n", 1024) = 3
read(0, a
"a\n", 1024) = 2
write(1, "Enter your element", 19Enter your element) = 19
read(0, 40
"40\n", 1024) = 3
read(0, d
"d\n", 1024) = 2
write(1, "Enter your element", 19Enter your element) = 19
read(0, 20
"20\n", 1024) = 3
read(0, p
"p\n", 1024) = 2
write(1, "1 \n", 31
) = 3
write(1, "-5 \n", 4-5
) = 4
write(1, "NULL \n", 6NULL
write(1, "NULL \n", 6NULL
) = 6
write(1, "40 \n", 440
) = 4
write(1, "NULL \n", 6NULL
) = 6
write(1, "NULL \n", 6NULL
) = 6
read(0, h
"h\n", 1024) = 2
write(1, "Add:
press a \n", 14Add: press a
) = 14
```

```
write(1, "Delete element: press d \n", 25Delete element: press d
) = 25
write(1, "Print: press p \n", 16Print: press p
) = 16
write(1, "Help: press h \n", 15Help: press h
) = 15
write(1, "Exit: press e \n", 15Exit: press e
) = 15
read(0, e
"e\n", 1024) = 2
munmap(0x7f942ae54000, 2105456) = 0
Iseek(0, -1, SEEK_CUR) = -1 ESPIPE (Illegal seek)
exit_group(0) = ?
+++ exited with 0 +++
//Лр6
artoy@artoy:~/Desktop/Labs/3 sem/OS/Lab3$ strace ./a.out 2 < t1.txt
execve("./a.out", ["./a.out", "2"], 0x7ffc4c23e238 /* 70 \text{ vars } */) = 0
brk(NULL)
                                                                                          = 0x56118287c000
access("/etc/ld.so.nohwcap", F_OK) = -1 ENOENT (No such file or directory)
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
fstat(3, {st\_mode=S\_IFREG|0644, st\_size=89848, ...}) = 0
mmap(NULL, 89848, PROT_READ, MAP_PRIVATE, 3, 0) = 0x7ffa1dec5000
close(3)
                                                                                 =0
access("/etc/ld.so.nohwcap", F_OK) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libpthread.so.0", O_RDONLY|O_CLOEXEC) = 3
fstat(3, {st_mode=S_IFREG|0755, st_size=144976, ...}) = 0
mmap(NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) = 0x7ffa1dec3000
mmap(NULL,\,2221184,\,PROT\_READ|PROT\_EXEC,\,MAP\_PRIVATE|MAP\_DENYWRITE,\,3,\,0) = 0x7ffa1da95000
mprotect(0x7ffa1daaf000, 2093056, PROT_NONE) = 0
mmap(0x7ffa1dcae000, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x19000) = 0x7ffa1dcae000
mmap(0x7ffa1dcb0000,13440,PROT\_READ|PROT\_WRITE,MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS,-1,0) = 0x7ffa1dcb00000,13440,PROT\_READ|PROT\_WRITE,MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS,-1,0) = 0x7ffa1dcb00000,13440,PROT\_READ|PROT\_WRITE,MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS,-1,0) = 0x7ffa1dcb00000,13440,PROT\_READ|PROT\_WRITE,MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS,-1,0) = 0x7ffa1dcb00000,13440,PROT\_READ|PROT\_WRITE,MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS,-1,0) = 0x7ffa1dcb00000,13440,PROT\_READ|PROT\_WRITE,MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS,-1,0) = 0x7ffa1dcb00000,13440,PROT\_READ|PROT\_WRITE,MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS,-1,0) = 0x7ffa1dcb00000,13440,PROT\_READ|PROT\_WRITE,MAP\_PRIVATE|MAP\_ANONYMOUS,-1,0) = 0x7ffa1dcb00000,PROT\_READ|PROT\_WRITE,MAP\_ANONYMOUS,-1,0) = 0x7ffa1dcb00000,PROT\_READ|PROT\_WRITE,MAP\_ANONYMOUS,-1,0) = 0x7ffa1dcb00000,PROT\_READ|PROT\_READ|PROT\_WRITE,MAP\_ANONYMOUS,-1,0) = 0x7ffa1dcb00000,PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT_READ|PROT\_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|P
                                                                                 =0
close(3)
access("/etc/ld.so.nohwcap", F_OK) = -1 ENOENT (No such file or directory)
openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libc.so.6", O\_RDONLY|O\_CLOEXEC) = 3
fstat(3, {st_mode=S_IFREG|0755, st_size=2030544, ...}) = 0
mmap(NULL, 4131552, PROT_READ|PROT_EXEC, MAP_PRIVATE|MAP_DENYWRITE, 3, 0) = 0x7ffa1d6a4000
mprotect(0x7ffa1d88b000, 2097152, PROT NONE) = 0
mmap(0x7ffa1da8b000,24576,PROT\_READ|PROT\_WRITE,MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE,3,0x1e7000) = 0x7ffa1da8b000,24576,PROT\_READ|PROT\_WRITE,MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE,3,0x1e7000) = 0x7ffa1da8b000,24576,PROT\_READ|PROT\_WRITE,MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE,3,0x1e7000) = 0x7ffa1da8b000,24576,PROT\_READ|PROT\_WRITE,MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE,3,0x1e7000) = 0x7ffa1da8b000,24576,PROT\_READ|PROT\_WRITE,MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE,3,0x1e7000) = 0x7ffa1da8b000,24576,PROT\_READ|PROT\_WRITE,MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP\_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|MAP_PRIVATE|M
mmap(0x7ffa1da91000, 15072, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7ffa1da91000, 15072, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7ffa1da91000, 15072, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7ffa1da91000, 15072, PROT\_READ|PROT\_WRITE, MAP\_ANONYMOUS, -1, 0) = 0x7ffa1da91000, 15072, PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT_READ|PROT\_READ|PROT\_READ|PROT\_READ|PROT_READ|PROT\_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_READ|PROT_REA
close(3)
mmap(NULL, 12288, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) = 0x7ffa1dec0000
```

```
\begin{aligned} & \text{arch\_prctl}(\text{ARCH\_SET\_FS}, 0\text{x7ffa1dec0740}) = 0 \\ & \text{mprotect}(0\text{x7ffa1da8b000}, 16384, \text{PROT\_READ}) = 0 \\ & \text{mprotect}(0\text{x7ffa1dcae000}, 4096, \text{PROT\_READ}) = 0 \\ & \text{mprotect}(0\text{x561181b9d000}, 4096, \text{PROT\_READ}) = 0 \\ & \text{mprotect}(0\text{x7ffa1dedb000}, 4096, \text{PROT\_READ}) = 0 \\ & \text{munmap}(0\text{x7ffa1dec5000}, 89848) & = 0 \\ & \text{set\_tid\_address}(0\text{x7ffa1dec0a10}) & = 23712 \end{aligned}
```

 $set_robust_list(0x7ffa1dec0a20, 24) = 0$

 $rt_sigaction(SIGRTMIN, \{sa_handler=0x7ffa1da9acb0, sa_mask=[], sa_flags=SA_RESTORER|SA_SIGINFO, sa_restorer=0x7ffa1daa78a0\}, NULL, 8) = 0 \\$

 $rt_sigaction(SIGRT_1, \{sa_handler=0x7ffa1da9ad50, sa_mask=[], sa_flags=SA_RESTORER|SA_RESTART|SA_SIGINFO, sa_restorer=0x7ffa1daa78a0\}, NULL, 8) = 0 \\$

rt_sigprocmask(SIG_UNBLOCK, [RTMIN RT_1], NULL, 8) = 0

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

 $fstat(0, \{st_mode=S_IFREG|0664, st_size=181, ...\}) = 0$

brk(NULL) = 0x56118287c000

brk(0x56118289d000) = 0x56118289d000

 $read(0, "1\n3 3\n7 7\n58 -86 42 -10 5 -92 -9"..., 4096) = 181$

 $mmap(NULL, 8392704, PROT_NONE, MAP_PRIVATE|MAP_ANONYMOUS|MAP_STACK, -1, 0) = 0x7ffa1cea3000$

 $mprotect(0x7ffa1cea4000, 8388608, PROT_READ|PROT_WRITE) = 0$

clone(child_stack=0x7ffa1d6a2fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23713$

mmap(NULL, 8392704, PROT_NONE, MAP_PRIVATE|MAP_ANONYMOUS|MAP_STACK, -1, 0) = 0x7ffa1c6a2000

 $mprotect(0x7ffa1c6a3000,\,8388608,\,PROT_READ|PROT_WRITE) = 0$

 $clone(child_stack = 0x7ffa1cea1fb0,$

 $flags = CLONE_VM|CLONE_FS|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr = 0x7ffa1cea29d0, tls = 0x7ffa1cea2700, child_tidptr = 0x7ffa1cea29d0) = 23714$

futex(0x7ffa1cea29d0, FUTEX_WAIT, 23714, NULL) = -1 EAGAIN (Resource temporarily unavailable)

clone(child_stack=0x7ffa1cea1fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea27d0, child_tidptr=0x7ffa1cea29d0) = 23715$

 $clone (child_stack = 0x7ffa1d6a2fb0,$

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23716$

 $clone(child_stack = 0x7ffa1d6a2fb0,$

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23717$

clone(child_stack=0x7ffa1cea1fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea27d0, child_tidptr=0x7ffa1cea29d0) = 23718$

clone(child_stack=0x7ffa1cea1fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child_tidptr=0x7ffa1cea29d0) = 23719$

clone(child_stack=0x7ffa1d6a2fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN \\ T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23720 \\ T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a37d0, tls=0x7ffa1d6a37d0, tls=0x7ffa1d6a37d$

clone(child_stack=0x7ffa1d6a2fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23721$

clone(child_stack=0x7ffa1cea1fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PARENT_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child_tidptr=0x7ffa1cea29d0) = 23722$

clone(child stack=0x7ffa1cea1fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN \\ T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea27d0, child_tidptr=0x7ffa1cea29d0) = 23723$

clone(child_stack=0x7ffa1d6a2fb0.

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23724$

clone(child stack=0x7ffa1d6a2fb0.

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23725$

clone(child_stack=0x7ffa1cea1fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea27d0, child_tidptr=0x7ffa1cea29d0) = 23726$

clone(child_stack=0x7ffa1cea1fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN \\ T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child_tidptr=0x7ffa1cea29d0) = 23727 \\ \frac{1}{2} \frac{$

clone(child_stack=0x7ffa1d6a2fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN \\ T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23728$

clone(child stack=0x7ffa1d6a2fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23729$

clone(child_stack=0x7ffa1cea1fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea27d0, child_tidptr=0x7ffa1cea29d0) = 23730$

clone(child_stack=0x7ffa1cea1fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea27d0, child_tidptr=0x7ffa1cea29d0) = 23731$

clone(child_stack=0x7ffa1d6a2fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23732$

clone(child_stack=0x7ffa1d6a2fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN \\ T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23733$

clone(child_stack=0x7ffa1cea1fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea27d0, child_tidptr=0x7ffa1cea29d0) = 23734$

clone(child_stack=0x7ffa1cea1fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child_tidptr=0x7ffa1cea29d0) = 23735$

clone(child stack=0x7ffa1d6a2fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN \\ T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23736$

clone(child_stack=0x7ffa1d6a2fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN \\ T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23737$

clone(child_stack=0x7ffa1cea1fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN_T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea27d0, child_tidptr=0x7ffa1cea29d0) = 23738$

 $clone (child_stack = 0x7ffa1cea1fb0,$

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PARENT_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child_tidptr=0x7ffa1cea29d0) = 23739$

clone(child_stack=0x7ffa1d6a2fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23740$

clone(child_stack=0x7ffa1d6a2fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23741$

clone(child stack=0x7ffa1cea1fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN \\ T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea27d0, child_tidptr=0x7ffa1cea29d0) = 23742$

clone(child stack=0x7ffa1cea1fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea27d0, child_tidptr=0x7ffa1cea29d0) = 23743$

clone(child stack=0x7ffa1d6a2fb0.

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23744$

clone(child_stack=0x7ffa1d6a2fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23745$

clone(child_stack=0x7ffa1cea1fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN \\ T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child_tidptr=0x7ffa1cea29d0) = 23746$

clone(child_stack=0x7ffa1cea1fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN \\ T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child_tidptr=0x7ffa1cea29d0) = 23747 \\$

clone(child stack=0x7ffa1d6a2fb0.

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23748$

clone(child_stack=0x7ffa1d6a2fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23749$

clone(child_stack=0x7ffa1cea1fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child_tidptr=0x7ffa1cea29d0) = 23750$

clone(child_stack=0x7ffa1cea1fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea27d0, child_tidptr=0x7ffa1cea29d0) = 23751$

clone(child_stack=0x7ffa1d6a2fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23752$

clone(child_stack=0x7ffa1d6a2fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23753$

clone(child_stack=0x7ffa1cea1fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child_tidptr=0x7ffa1cea29d0) = 23754$

clone(child stack=0x7ffa1cea1fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN \\ T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea27d0, child_tidptr=0x7ffa1cea29d0) = 23755 \\$

clone(child_stack=0x7ffa1d6a2fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN \\ T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23756$

clone(child_stack=0x7ffa1d6a2fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN \\ T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr = 0x7ffa1d6a39d0, tls = 0x7ffa1d6a37d0, child_tidptr = 0x7ffa1d6a39d0) = 23757$

 $clone (child_stack = 0x7ffa1cea1fb0,$

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child_tidptr=0x7ffa1cea29d0) = 23758$

clone(child_stack=0x7ffa1cea1fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN-T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1cea29d0, tls=0x7ffa1cea2700, child_tidptr=0x7ffa1cea29d0) = 23759$

clone(child_stack=0x7ffa1d6a2fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN \\ T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a3700, child_tidptr=0x7ffa1d6a39d0) = 23760$

clone(child stack=0x7ffa1d6a2fb0,

 $flags = CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS|CLONE_PAREN \\ T_SETTID|CLONE_CHILD_CLEARTID, parent_tidptr=0x7ffa1d6a39d0, tls=0x7ffa1d6a37d0, child_tidptr=0x7ffa1d6a39d0) = 23761$

```
fstat(1, \{st\_mode=S\_IFCHR|0620, st\_rdev=makedev(136, 0), ...\}) = 0
write(1, "Number of threads: 2\n", 21Number of threads: 2
) = 21
write(1, "Number of filter: 1\n", 20Number of filter: 1
) = 20
write(1, "window width: 3\n", 16window width: 3
= 16
write(1, "window height: 3\n", 17window height: 3
= 17
write(1, "width: 7\n", 9width: 7
        = 9
write(1, "height: 7\n", 10height: 7
       = 10
write(1, "\n", 1
write(1, "Result matrix:\n", 15Result matrix:
    = 15
write(1, " 0 0 -14 65 -36 "..., 42 0 0 -14 65 -36 37 -11
) = 42
write(1, " 0 -3 -82 42 -10 "..., 42 0 -3 -82 42 -10 5 -3
) = 42
write(1, " -26 -20 -19 58 1 "..., 42 -26 -20 -19 58 1 -50 53
) = 42
write(1, " 8 -3 -82 -44 30 "..., 42 8 -3 -82 -44 30 -50 34
) = 42
write(1, " 41 47 -65 -44 51 "..., 42 41 47 -65 -44 51 -50 37
) = 42
write(1, " 16 47 -65 -44 30 "..., 42 16 47 -65 -44 30 -3 3
) = 42
write(1, " 1 1 -29 -4 42 "..., 42 1 1 -29 -4 42 -17 -1
) = 42
lseek(0, -1, SEEK_CUR)
                               = 180
exit_group(0)
                          = ?
+++ exited with 0 +++
```

6.Вывод

Таким образом, с помощью утилиты strace можно отслеживать системные вызовы. Для понимания и умения работы с утилитой strace необходимы знания: и чем они глубже, тем и лучше. В ходе выполнения работ я смог научиться работать с strace на приемлиемом уровне, а также получать некую информацию о работе программы при вызове strace. Существует масса ситуаций в которых с помощью утилиты strace можно диагностировать какую-то программу, а также понять в чем ошибка, если она есть.