Московский Авиационный Институт

(Национальный Исследовательский Университет)

Факультет информационных технологий и прикладной математики

Кафедра вычислительной математики и программирования

**Лабораторная работа №1 по курсу**

**«Операционные системы»**

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Дата: \_\_\_\_\_\_\_\_\_\_\_

Подпись: \_\_\_\_\_\_\_\_\_\_\_

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**Содержание**

1. Репозиторий
2. Постановка задачи
3. Демонстрация работы strace
4. Вывод

**Репозиторий**

**https://github.com/Nikitashap/OS/tree/main/lab1**

**Постановка задачи**

Подробно рассказать о каждом системном вызове из утилиты strace на примере курсового проекта.

**Демонстрация работы strace**

~/Documents/CP$ strace ./main >> file.txt

execve("./main", ["./main"], 0x7ffd15cb06d0 /\* 57 vars \*/) = 0

brk(NULL) = 0x55baf788b000

arch\_prctl(0x3001 /\* ARCH\_??? \*/, 0x7ffeb1143320) = -1 EINVAL (Invalid argument)

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f1aa696a000

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=61553, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 61553, PROT\_READ, MAP\_PRIVATE, 3, 0) = 0x7f1aa695a000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libstdc++.so.6", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=2252064, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 2267264, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f1aa6600000

mmap(0x7f1aa669a000, 1114112, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x9a000) = 0x7f1aa669a000

mmap(0x7f1aa67aa000, 454656, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1aa000) = 0x7f1aa67aa000

mmap(0x7f1aa6819000, 57344, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x218000) = 0x7f1aa6819000

mmap(0x7f1aa6827000, 10368, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7f1aa6827000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libgcc\_s.so.1", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=125464, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 127688, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f1aa693a000

mmap(0x7f1aa693d000, 94208, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x3000) = 0x7f1aa693d000

mmap(0x7f1aa6954000, 16384, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1a000) = 0x7f1aa6954000

mmap(0x7f1aa6958000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1d000) = 0x7f1aa6958000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libc.so.6", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\3206\2\0\0\0\0\0"..., 832) = 832

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

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=2072888, ...}, 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, 2117488, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f1aa6200000

mmap(0x7f1aa6222000, 1544192, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x22000) = 0x7f1aa6222000

mmap(0x7f1aa639b000, 356352, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x19b000) = 0x7f1aa639b000

mmap(0x7f1aa63f2000, 24576, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1f1000) = 0x7f1aa63f2000

mmap(0x7f1aa63f8000, 53104, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7f1aa63f8000

close(3) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libm.so.6", O\_RDONLY|O\_CLOEXEC) = 3

read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=948816, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 950520, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f1aa6851000

mmap(0x7f1aa685f000, 516096, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xe000) = 0x7f1aa685f000

mmap(0x7f1aa68dd000, 372736, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x8c000) = 0x7f1aa68dd000

mmap(0x7f1aa6938000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xe6000) = 0x7f1aa6938000

close(3) = 0

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f1aa684f000

arch\_prctl(ARCH\_SET\_FS, 0x7f1aa6850400) = 0

set\_tid\_address(0x7f1aa68506d0) = 4918

set\_robust\_list(0x7f1aa68506e0, 24) = 0

rseq(0x7f1aa6850d20, 0x20, 0, 0x53053053) = 0

mprotect(0x7f1aa63f2000, 16384, PROT\_READ) = 0

mprotect(0x7f1aa6938000, 4096, PROT\_READ) = 0

mprotect(0x7f1aa6958000, 4096, PROT\_READ) = 0

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f1aa684d000

mprotect(0x7f1aa6819000, 45056, PROT\_READ) = 0

mprotect(0x55baf5da1000, 4096, PROT\_READ) = 0

mprotect(0x7f1aa69a0000, 8192, PROT\_READ) = 0

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

munmap(0x7f1aa695a000, 61553) = 0

getrandom("\xbf\xcd\x9e\x7d\xe2\xd1\xd6\xd2", 8, GRND\_NONBLOCK) = 8

brk(NULL) = 0x55baf788b000

brk(0x55baf78ac000) = 0x55baf78ac000

futex(0x7f1aa682773c, FUTEX\_WAKE\_PRIVATE, 2147483647) = 0

pipe2([3, 4], 0) = 0

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

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

unlink("/dev/shm/sem.\_semA") = 0

unlink("/dev/shm/sem.\_semB") = 0

unlink("/dev/shm/sem.\_semC") = 0

openat(AT\_FDCWD, "/dev/shm/sem.\_semA", O\_RDWR|O\_NOFOLLOW) = -1 ENOENT (No such file or directory)

getrandom("\x30\x3a\x18\x22\x2d\x82\x29\xc7", 8, GRND\_NONBLOCK) = 8

newfstatat(AT\_FDCWD, "/dev/shm/sem.GSWfRx", 0x7ffeb1142f00, AT\_SYMLINK\_NOFOLLOW) = -1 ENOENT (No such file or directory)

openat(AT\_FDCWD, "/dev/shm/sem.GSWfRx", O\_RDWR|O\_CREAT|O\_EXCL, 0777) = 9

write(9, "\1\0\0\0\0\0\0\0\200\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0", 32) = 32

mmap(NULL, 32, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 9, 0) = 0x7f1aa6969000

link("/dev/shm/sem.GSWfRx", "/dev/shm/sem.\_semA") = 0

newfstatat(9, "", {st\_mode=S\_IFREG|0775, st\_size=32, ...}, AT\_EMPTY\_PATH) = 0

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

close(9) = 0

openat(AT\_FDCWD, "/dev/shm/sem.\_semB", O\_RDWR|O\_NOFOLLOW) = -1 ENOENT (No such file or directory)

getrandom("\xc3\x75\x58\x42\xcf\xfc\xa9\x88", 8, GRND\_NONBLOCK) = 8

newfstatat(AT\_FDCWD, "/dev/shm/sem.TV5YCr", 0x7ffeb1142f00, AT\_SYMLINK\_NOFOLLOW) = -1 ENOENT (No such file or directory)

openat(AT\_FDCWD, "/dev/shm/sem.TV5YCr", O\_RDWR|O\_CREAT|O\_EXCL, 0777) = 9

write(9, "\0\0\0\0\0\0\0\0\200\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0", 32) = 32

mmap(NULL, 32, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 9, 0) = 0x7f1aa6968000

link("/dev/shm/sem.TV5YCr", "/dev/shm/sem.\_semB") = 0

newfstatat(9, "", {st\_mode=S\_IFREG|0775, st\_size=32, ...}, AT\_EMPTY\_PATH) = 0

unlink("/dev/shm/sem.TV5YCr") = 0

close(9) = 0

openat(AT\_FDCWD, "/dev/shm/sem.\_semC", O\_RDWR|O\_NOFOLLOW) = -1 ENOENT (No such file or directory)

getrandom("\x38\x44\xea\xd2\x67\x77\xb2\x18", 8, GRND\_NONBLOCK) = 8

newfstatat(AT\_FDCWD, "/dev/shm/sem.opUMIp", 0x7ffeb1142f00, AT\_SYMLINK\_NOFOLLOW) = -1 ENOENT (No such file or directory)

openat(AT\_FDCWD, "/dev/shm/sem.opUMIp", O\_RDWR|O\_CREAT|O\_EXCL, 0777) = 9

write(9, "\0\0\0\0\0\0\0\0\200\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0", 32) = 32

mmap(NULL, 32, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 9, 0) = 0x7f1aa6967000

link("/dev/shm/sem.opUMIp", "/dev/shm/sem.\_semC") = 0

newfstatat(9, "", {st\_mode=S\_IFREG|0775, st\_size=32, ...}, AT\_EMPTY\_PATH) = 0

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

close(9) = 0

newfstatat(1, "", {st\_mode=S\_IFREG|0664, st\_size=0, ...}, AT\_EMPTY\_PATH) = 0

clone(child\_stack=NULL, flags=CLONE\_CHILD\_CLEARTID|CLONE\_CHILD\_SETTID|SIGCHLD, child\_tidptr=0x7f1aa68506d0) = 4919

execve("A", ["3", "4", "5", "6"], 0x7ffeb1143488 /\* 57 vars \*/) = 0

brk(NULL) = 0x56333d972000

arch\_prctl(0x3001 /\* ARCH\_??? \*/, 0x7ffc513d2e90) = -1 EINVAL (Invalid argument)

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f7973330000

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) = 9

newfstatat(9, "", {st\_mode=S\_IFREG|0644, st\_size=61553, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 61553, PROT\_READ, MAP\_PRIVATE, 9, 0) = 0x7f7973320000

close(9) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libstdc++.so.6", O\_RDONLY|O\_CLOEXEC) = 9

read(9, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

newfstatat(9, "", {st\_mode=S\_IFREG|0644, st\_size=2252064, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 2267264, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 9, 0) = 0x7f7973000000

mmap(0x7f797309a000, 1114112, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 9, 0x9a000) = 0x7f797309a000

mmap(0x7f79731aa000, 454656, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 9, 0x1aa000) = 0x7f79731aa000

mmap(0x7f7973219000, 57344, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 9, 0x218000) = 0x7f7973219000

mmap(0x7f7973227000, 10368, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7f7973227000

close(9) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libgcc\_s.so.1", O\_RDONLY|O\_CLOEXEC) = 9

read(9, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

newfstatat(9, "", {st\_mode=S\_IFREG|0644, st\_size=125464, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 127688, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 9, 0) = 0x7f7973300000

mmap(0x7f7973303000, 94208, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 9, 0x3000) = 0x7f7973303000

mmap(0x7f797331a000, 16384, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 9, 0x1a000) = 0x7f797331a000

mmap(0x7f797331e000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 9, 0x1d000) = 0x7f797331e000

close(9) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libc.so.6", O\_RDONLY|O\_CLOEXEC) = 9

read(9, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\3206\2\0\0\0\0\0"..., 832) = 832

pread64(9, "\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(9, "", {st\_mode=S\_IFREG|0644, st\_size=2072888, ...}, AT\_EMPTY\_PATH) = 0

pread64(9, "\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, 2117488, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 9, 0) = 0x7f7972c00000

mmap(0x7f7972c22000, 1544192, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 9, 0x22000) = 0x7f7972c22000

mmap(0x7f7972d9b000, 356352, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 9, 0x19b000) = 0x7f7972d9b000

mmap(0x7f7972df2000, 24576, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 9, 0x1f1000) = 0x7f7972df2000

mmap(0x7f7972df8000, 53104, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7f7972df8000

close(9) = 0

openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libm.so.6", O\_RDONLY|O\_CLOEXEC) = 9

read(9, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

newfstatat(9, "", {st\_mode=S\_IFREG|0644, st\_size=948816, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 950520, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 9, 0) = 0x7f7972f17000

mmap(0x7f7972f25000, 516096, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 9, 0xe000) = 0x7f7972f25000

mmap(0x7f7972fa3000, 372736, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 9, 0x8c000) = 0x7f7972fa3000

mmap(0x7f7972ffe000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 9, 0xe6000) = 0x7f7972ffe000

close(9) = 0

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f79732fe000

arch\_prctl(ARCH\_SET\_FS, 0x7f79732ff400) = 0

set\_tid\_address(0x7f79732ff6d0) = 4918

set\_robust\_list(0x7f79732ff6e0, 24) = 0

rseq(0x7f79732ffd20, 0x20, 0, 0x53053053) = 0

mprotect(0x7f7972df2000, 16384, PROT\_READ) = 0

mprotect(0x7f7972ffe000, 4096, PROT\_READ) = 0

mprotect(0x7f797331e000, 4096, PROT\_READ) = 0

mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f79732fc000

mprotect(0x7f7973219000, 45056, PROT\_READ) = 0

mprotect(0x56333c8dd000, 4096, PROT\_READ) = 0

mprotect(0x7f7973366000, 8192, PROT\_READ) = 0

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

munmap(0x7f7973320000, 61553) = 0

getrandom("\x16\xb0\xb5\xe6\x2a\x25\x5d\xd2", 8, GRND\_NONBLOCK) = 8

brk(NULL) = 0x56333d972000

brk(0x56333d993000) = 0x56333d993000

futex(0x7f797322773c, FUTEX\_WAKE\_PRIVATE, 2147483647) = 0

openat(AT\_FDCWD, "/dev/shm/sem.\_semA", O\_RDWR|O\_NOFOLLOW) = 9

newfstatat(9, "", {st\_mode=S\_IFREG|0775, st\_size=32, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 32, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 9, 0) = 0x7f797332f000

close(9) = 0

openat(AT\_FDCWD, "/dev/shm/sem.\_semB", O\_RDWR|O\_NOFOLLOW) = 9

newfstatat(9, "", {st\_mode=S\_IFREG|0775, st\_size=32, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 32, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 9, 0) = 0x7f797332e000

close(9) = 0

openat(AT\_FDCWD, "/dev/shm/sem.\_semC", O\_RDWR|O\_NOFOLLOW) = 9

newfstatat(9, "", {st\_mode=S\_IFREG|0775, st\_size=32, ...}, AT\_EMPTY\_PATH) = 0

mmap(NULL, 32, PROT\_READ|PROT\_WRITE, MAP\_SHARED, 9, 0) = 0x7f797332d000

close(9) = 0

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

read(0, ere

"ere\n", 1024) = 4

write(4, "\3\0\0\0", 4) = 4

write(6, "\3\0\0\0", 4) = 4

write(4, "e", 1) = 1

write(4, "r", 1) = 1

write(4, "e", 1) = 1

read(0, tet

"tet\n", 1024) = 4

write(4, "\3\0\0\0", 4) = 4

write(6, "\3\0\0\0", 4) = 4

write(4, "t", 1) = 1

write(4, "e", 1) = 1

write(4, "t", 1) = 1

read(0, ^C0x56333d983fa0, 1024) = ? ERESTARTSYS (To be restarted if SA\_RESTART is set)

strace: Process 4918 detached

**Вывод**

Проделав лабораторную работу, я приобрёл навыки, необходимые для работы с strace, а также изучил системные вызовы.