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

Лабораторная работа №8 по курсу
«Операционные системы»

Группа: М80-206Б-22

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Оценка: _____

Дата: 07.01.24

Москва, 2024

Постановка задачи

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

Strace

Команда **strace** фиксирует все системные вызовы, совершаемые запущенной программой. В самом простом варианте **strace** запускает переданную программу (с ее аргументами) и выводит в стандартный поток ошибок зафиксированные системные вызовы. Давайте разберем опции утилиты, с помощью которых можно управлять ее поведением:

- **-i** - выводить указатель на инструкцию во время выполнения системного вызова;
- **-k** - выводить стек вызовов для отслеживаемого процесса после каждого системного вызова;
- **-o** - выводить всю информацию о системных вызовах не в стандартный поток ошибок, а в файл;
- **-q** - не выводить сообщения о подключении и отключении от процесса;
- **-qq** - не выводить сообщения о завершении работы процесса;
- **-r** - выводить временную метку для каждого системного вызова;
- **-s** - указать максимальный размер выводимой строки, по умолчанию 32;
- **-t** - выводить время суток для каждого вызова;
- **-tt** - добавить микросекунды;
- **-ttt** - добавить микросекунды и количество секунд после начала эпохи Unix;
- **-T** - выводить длительность выполнения системного вызова;
- **-x** - выводить все не ASCII-строки в шестнадцатеричном виде;
- **-xx** - выводить все строки в шестнадцатеричном виде;
- **-y** - выводить пути для файловых дескрипторов;
- **-yy** - выводить информацию о протоколе для файловых дескрипторов;
- **-c** - подсчитывать количество ошибок, вызовов и время выполнения для каждого системного вызова;

- **-O** - добавить определенное количество микросекунд к счетчику времени для каждого вызова;
- **-S** - сортировать информацию выводимую при опции **-с**. Доступны поля time, calls, name и nothing. По умолчанию используется time;
- **-w** - суммировать время между началом и завершением системного вызова;
- **-e** - позволяет отфильтровать только нужные системные вызовы или события;
- **-P** - отслеживать только системные вызовы, которые касаются указанного пути;
- **-v** - позволяет выводить дополнительную информацию, такую как версии окружения, статистику и так далее;
- **-b** - если указанный системный вызов обнаружен, трассировка прекращается;
- **-f** - отслеживать также дочерние процессы, если они будут созданы;
- **-ff** - если задана опция -o, то для каждого дочернего процесса будет создан отдельный файл с именем имя_файла.pid.
- **-I** - позволяет блокировать реакцию на нажатия Ctrl+C и Ctrl+Z;
- **-E** - добавляет переменную окружения для запускаемой программы;
- **-p** - указывает pid процесса, к которому следует подключиться;
- **-u** - запустить программу, от имени указанного пользователя.

Dtruss

Dtruss - аналог **strace** для macOS. Принцип работы не отличается от **strace**, но присутствует необходимость в дополнительных правах (т. е. для работы нужно запускать с sudo). Разберем опции:

- **-a** - печатать все детали;
- **-b bufsize** - изменить размер буфера. Увеличьте это значение, если вы заметили ошибки удаления динамических переменных. По умолчанию стоит значение "4m" для 4 мегабайтов на CPU;
- **-c** - печатать кол-во системных вызовов;
- **-d** - печать относительных временных меток;
- **-e** - печать прошедшего времени;
- **-f** - отслеживать дочерний процесс после его создания;
- **-n name** - рассматривать процесс с именем name;
- **-W name** - ожидать процесс, который соответствует имени name;
- **-o** - печатать время CPU;
- **-s** - печатать стек вызовов;
- **-t syscall** - рассматривать только системный вызов syscall.

Протокол работы программы

Dtrace (аналог strace):

Lab1

mishazhadnov@McB-airmi scr % sudo dtruss ./parent

dtrace: system integrity protection is on, some features will not be available

SYSCALL(args) = return

munmap(0x111A3D000, 0x9C000) = 0 0

munmap(0x111AD9000, 0x8000) = 0 0

munmap(0x111AE1000, 0x4000) = 0 0

munmap(0x111AE5000, 0x4000) = 0 0

munmap(0x111AE9000, 0x54000) = 0 0

open("./0", 0x100000, 0x0) = 3 0

fcntl(0x3, 0x32, 0x7FF7B3A0A250) = 0 0

close(0x3) = 0 0

fsgetpath(0x7FF7B3A0A260, 0x400, 0x7FF7B3A0A248) = 58 0

fsgetpath(0x7FF7B3A0A260, 0x400, 0x7FF7B3A0A248) = 14 0

csrctl(0x0, 0x7FF7B3A0A66C, 0x4) = -1 1

__mac_syscall(0x7FF810C2E11B, 0x2, 0x7FF7B3A0A4E0) = 0 0

csrctl(0x0, 0x7FF7B3A0A67C, 0x4) = -1 1

__mac_syscall(0x7FF810C2B0A8, 0x5A, 0x7FF7B3A0A610) = 0 0

dtrace: error on enabled probe ID 1741 (ID 571: syscall::sysctl:return): invalid kernel access in action #10 at DIF offset 28

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dtrace: error on enabled probe ID 1741 (ID 571: syscall::sysctl:return): invalid kernel access in action #10 at DIF offset 28

open("/0", 0x20100000, 0x0) = 3 0

openat(0x3, "System/Cryptexes/OS/0", 0x100000, 0x0) = 4 0

dup(0x4, 0x0, 0x0) = 5 0

fstatat64(0x4, 0x7FF7B3A093B1, 0x7FF7B3A097B0) = 0 0

openat(0x4, "System/Library/dyld/0", 0x100000, 0x0) = 6 0

fcntl(0x6, 0x32, 0x7FF7B3A09440) = 0 0

```
dup(0x6, 0x0, 0x0)          = 7 0

dup(0x5, 0x0, 0x0)          = 8 0

close(0x3)                   = 0 0

close(0x5)                   = 0 0

close(0x4)                   = 0 0

close(0x6)                   = 0 0

shared_region_check_np(0x7FF7B3A09D38, 0x0, 0x0)      = 0 0

fsgetpath(0x7FF7B3A0A290, 0x400, 0x7FF7B3A0A1C8)      = 83 0

fcntl(0x8, 0x32, 0x7FF7B3A0A290)                      = 0 0

close(0x8)                   = 0 0

close(0x7)                   = 0 0

getfsstat64(0x0, 0x0, 0x2)      = 8 0

getfsstat64(0x10C4FBA10, 0x43C0, 0x2)      = 8 0

getattrlist("/^0", 0x7FF7B3A0A120, 0x7FF7B3A0A090)    = 0 0

fsgetpath(0x7FF7B3A09F10, 0x400, 0x7FF7B3A09EF8)      = 83 0

stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/dyld/dyld_shared_cache_x86_64h\0", 0x7FF7B3A0A378, 0x0) = 0 0

stat64("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab1/scr/parent\0", 0x7FF7B3A099A0, 0x0)      = 0 0

open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab1/scr/parent\0", 0x0, 0x0)      = 3 0

mmap(0x0, 0x33C4, 0x1, 0x40002, 0x3, 0x0)      = 0x10C53A000 0

fcntl(0x3, 0x32, 0x7FF7B3A09AB0)      = 0 0

close(0x3)                   = 0 0

munmap(0x10C53A000, 0x33C4)      = 0 0

stat64("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab1/scr/parent\0", 0x7FF7B3A09F00, 0x0)      = 0 0

stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7B3A08F50, 0x0)      = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libSystem.B.dylib\0", 0x7FF7B3A08F00, 0x0)      = -1 2

stat64("/usr/lib/system/libdispatch.dylib\0", 0x7FF7B3A06B50, 0x0)      = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libdispatch.dylib\0", 0x7FF7B3A06B00, 0x0)      = -1 2

stat64("/usr/lib/system/libdispatch.dylib\0", 0x7FF7B3A06B50, 0x0)      = -1 2

open("/dev/dtracehelper\0", 0x2, 0x0)      = 3 0

ioctl(0x3, 0x80086804, 0x7FF7B3A08B58)      = 0 0

close(0x3)                   = 0 0

mprotect(0x10C4F6000, 0x1000, 0x1)      = 0 0
```

shared_region_check_np(0xFFFFFFFFFFFFFFFF, 0x0, 0x0) = 0 0

mprotect(0x10C4F9000, 0x40000, 0x1) = 0 0

access("/AppleInternal/XBS/.isChrooted\0", 0x0, 0x0) = -1 2

bsdthread_register(0x7FF810EF5BC4, 0x7FF810EF5BB0, 0x2000) = 1073742303 0

shm_open(0x7FF810DA0F5A, 0x0, 0x10D9F465) = 3 0

fstat64(0x3, 0x7FF7B3A08DA0, 0x0) = 0 0

mmap(0x0, 0x3000, 0x1, 0x40001, 0x3, 0x0) = 0x10C53C000 0

close(0x3) = 0 0

ioctl(0x2, 0x4004667A, 0x7FF7B3A08E54) = 0 0

mprotect(0x10C544000, 0x1000, 0x0) = 0 0

mprotect(0x10C54B000, 0x1000, 0x0) = 0 0

mprotect(0x10C54C000, 0x1000, 0x0) = 0 0

mprotect(0x10C553000, 0x1000, 0x0) = 0 0

mprotect(0x10C53F000, 0x98, 0x1) = 0 0

mprotect(0x10C53F000, 0x98, 0x3) = 0 0

mprotect(0x10C53F000, 0x98, 0x1) = 0 0

mprotect(0x10C554000, 0x1000, 0x1) = 0 0

mprotect(0x10C555000, 0x98, 0x1) = 0 0

mprotect(0x10C555000, 0x98, 0x3) = 0 0

mprotect(0x10C555000, 0x98, 0x1) = 0 0

mprotect(0x10C53F000, 0x98, 0x3) = 0 0

mprotect(0x10C53F000, 0x98, 0x1) = 0 0

mprotect(0x10C554000, 0x1000, 0x3) = 0 0

mprotect(0x10C554000, 0x1000, 0x1) = 0 0

mprotect(0x10C4F9000, 0x40000, 0x3) = 0 0

mprotect(0x10C4F9000, 0x40000, 0x1) = 0 0

issetugid(0x0, 0x0, 0x0) = 0 0

mprotect(0x10C4F9000, 0x40000, 0x3) = 0 0

getentropy(0x7FF7B3A08900, 0x20, 0x0) = 0 0

mprotect(0x10C4F9000, 0x40000, 0x1) = 0 0

getpid(0x0, 0x0, 0x0) = 9784 0

mprotect(0x10C4F9000, 0x40000, 0x3) = 0 0

```

mprotect(0x10C4F9000, 0x40000, 0x1)          = 0 0

getattrlist("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab1/scr/parent\0", 0x7FF7B3A08D80, 0x7FF7B3A08D98) = 0 0

access("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab1/scr\0", 0x4, 0x0)          = 0 0

open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab1/scr\0", 0x0, 0x0)          = 3 0

fstat64(0x3, 0x7FADF2704500, 0x0)          = 0 0

csctl(0x0, 0x7FF7B3A0900C, 0x4)          = -1 1

fgetattrlist(0x3, 0x7FF7B3A09020, 0x7FF7B3A09040)          = 0 0

__mac_syscall(0x7FF81B4B2719, 0x2, 0x7FF7B3A09040)          = 0 0

fcntl(0x3, 0x32, 0x7FF7B3A08CB0)          = 0 0

close(0x3)          = 0 0

open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab1/scr/Info.plist\0", 0x0, 0x0) = -1 2

proc_info(0x2, 0x2638, 0xD)          = 64 0

csops_audittoken(0x2638, 0x10, 0x7FF7B3A08F90)          = -1 22

dtrace: error on enabled probe ID 1741 (ID 571: syscall::sysctl:return): invalid kernel access in action #10 at DIF offset 28

dtrace: error on enabled probe ID 1741 (ID 571: syscall::sysctl:return): invalid kernel access in action #10 at DIF offset 28

csops(0x2638, 0x0, 0x7FF7B3A093F4)          = 0 0

sysctlbyname(kern.system_version_compat, 0x1A, 0x0, 0x0, 0x7FF7B3A09424)          = 0 0

mprotect(0x10C4F9000, 0x40000, 0x3)          = 0 0

getrlimit(0x1008, 0x7FF7B3A09FE0, 0x0)          = 0 0

fstat64(0x0, 0x7FF7B3A09FC8, 0x0)          = 0 0

ioctl(0x0, 0x4004667A, 0x7FF7B3A0A014)          = 0 0


dtrace: error on enabled probe ID 1714 (ID 959: syscall::read_nocancel:return): invalid kernel access in action #12 at DIF offset 68

test_ok.txt

0

6

2

0

dtrace: error on enabled probe ID 1714 (ID 959: syscall::read_nocancel:return): invalid kernel access in action #12 at DIF offset 68

open("test_ok.txt\0", 0x0, 0x0)          = 3 0

pipe(0x0, 0x0, 0x0)          = 4 0

fork()          = 9789 0

```

```

close(0x5)          = 0 0

wait4(0xFFFFFFFFFFFF, 0x0, 0x0)      = 9789 0

dtrace: error on enabled probe ID 1713 (ID 173: syscall::read:return): invalid kernel access in action #12 at DIF offset 68

fstat64(0x1, 0x7FF7B3A0A388, 0x0)      = 0 0

ioctl(0x1, 0x4004667A, 0x7FF7B3A0A3D4) = 0 0

dtrace: error on enabled probe ID 1712 (ID 961: syscall::write_nocancel:return): invalid kernel access in action #12 at DIF offset 68

dtrace: error on enabled probe ID 1713 (ID 173: syscall::read:return): invalid kernel access in action #12 at DIF offset 68

dtrace: error on enabled probe ID 1712 (ID 961: syscall::write_nocancel:return): invalid kernel access in action #12 at DIF offset 68

dtrace: error on enabled probe ID 1713 (ID 173: syscall::read:return): invalid kernel access in action #12 at DIF offset 68

dtrace: error on enabled probe ID 1712 (ID 961: syscall::write_nocancel:return): invalid kernel access in action #12 at DIF offset 68

dtrace: error on enabled probe ID 1713 (ID 173: syscall::read:return): invalid kernel access in action #12 at DIF offset 68

dtrace: error on enabled probe ID 1712 (ID 961: syscall::write_nocancel:return): invalid kernel access in action #12 at DIF offset 68

dtrace: error on enabled probe ID 1713 (ID 173: syscall::read:return): invalid kernel access in action #12 at DIF offset 68

lseek(0x0, 0xFFFFFFFFFFFF, 0x1)      = 23771292 0

```

Lab2

```
mishazhadnov@McB-airmi scr % sudo dtruss ./prog 3 <bad.txt
```

```
dtrace: system integrity protection is on, some features will not be available
```

```
SYSCALL(args)      = return
```

```
Type your array:
```

```
After Sorting Array is: 1 1 1 1 1 1 1 7 7 7 7 9 9 9 9 23 23 23 23 31 31 49 49 49 50 50 50 50 50 50 77 77 77 77 77 80 92 92 101 101 101 127 127
127 127 277 277 305 305 404 404 404 500 500 500 500 5000 7007 7007 7009 7079 7079 7079 7079
```

```
Array size was 68
```

```

munmap(0x11622E000, 0xA0000)          = 0 0

munmap(0x1162CE000, 0x8000)           = 0 0

munmap(0x1162D6000, 0x4000)           = 0 0

munmap(0x1162DA000, 0x4000)           = 0 0

munmap(0x1162DE000, 0x58000)          = 0 0

open(".", 0, 0x100000, 0x0)            = 3 0

fcntl(0x3, 0x32, 0x7FF7B822D290)      = 0 0

close(0x3)                            = 0 0

fsgetpath(0x7FF7B822D2A0, 0x400, 0x7FF7B822D288) = 56 0

fsgetpath(0x7FF7B822D2A0, 0x400, 0x7FF7B822D288) = 14 0

```



```

csctl(0x0, 0x7FF7B822D6AC, 0x4)          = -1 1

__mac_syscall(0x7FF808646E3B, 0x2, 0x7FF7B822D510)      = 0 0

csctl(0x0, 0x7FF7B822D6BC, 0x4)          = -1 1

__mac_syscall(0x7FF808643DC6, 0x5A, 0x7FF7B822D650)      = 0 0

dtrace: error on enabled probe ID 1741 (ID 573: syscall::sysctl:return): invalid kernel access in action #10 at DIF offset 28

dtrace: error on enabled probe ID 1741 (ID 573: syscall::sysctl:return): invalid kernel access in action #10 at DIF offset 28

dtrace: error on enabled probe ID 1741 (ID 573: syscall::sysctl:return): invalid kernel access in action #10 at DIF offset 28

dtrace: error on enabled probe ID 1741 (ID 573: syscall::sysctl:return): invalid kernel access in action #10 at DIF offset 28

open("/^0", 0x20100000, 0x0)              = 3 0

openat(0x3, "System/Cryptexes/OS^0", 0x100000, 0x0)      = 4 0

dup(0x4, 0x0, 0x0)                        = 5 0

fstatat64(0x4, 0x7FF7B822C3F1, 0x7FF7B822C7F0)          = 0 0

openat(0x4, "System/Library/dyld/^0", 0x100000, 0x0)    = 6 0

fcntl(0x6, 0x32, 0x7FF7B822C480)            = 0 0

dup(0x6, 0x0, 0x0)                        = 7 0

dup(0x5, 0x0, 0x0)                        = 8 0

close(0x3)                                = 0 0

close(0x5)                                = 0 0

close(0x4)                                = 0 0

close(0x6)                                = 0 0

shared_region_check_np(0x7FF7B822CD68, 0x0, 0x0)        = 0 0

fsgetpath(0x7FF7B822D2D0, 0x400, 0x7FF7B822D208)        = 83 0

fcntl(0x8, 0x32, 0x7FF7B822D2D0)            = 0 0

close(0x8)                                = 0 0

close(0x7)                                = 0 0

getfsstat64(0x0, 0x0, 0x2)                  = 7 0

getfsstat64(0x108202AA0, 0x3B48, 0x2)        = 7 0

getattrlist("/^0", 0x7FF7B822D210, 0x7FF7B822D180)      = 0 0

stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/dyld/dyld_shared_cache_x86_64h/0", 0x7FF7B822D548, 0x0) = 0 0

dtrace: error on enabled probe ID 1690 (ID 845: syscall::stat64:return): invalid address (0x0) in action #11 at DIF offset 12

stat64("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab2/scr/prog/0", 0x7FF7B822C9E0, 0x0) = 0 0

open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab2/scr/prog/0", 0x0, 0x0)          = 3 0

```

```
mmap(0x0, 0x15838, 0x1, 0x40002, 0x3, 0x0)      = 0x107CEA000 0

fcntl(0x3, 0x32, 0x7FF7B822CAf0)                = 0 0

close(0x3)                                       = 0 0

munmap(0x107CEA000, 0x15838)                    = 0 0

stat64("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab2/scr/prog\0", 0x7FF7B822CF40, 0x0)    = 0 0

open("/usr/local/opt/gcc/lib/gcc/current/libstdc++.6.dylib\0", 0x0, 0x0)                = 3 0

fcntl(0x3, 0x32, 0x7FF7B822C390)                = 0 0

close(0x3)                                       = 0 0

stat64("/usr/local/opt/gcc/lib/gcc/current/libstdc++.6.dylib\0", 0x7FF7B822BF50, 0x0)    = 0 0

stat64("/usr/local/opt/gcc/lib/gcc/current/libstdc++.6.dylib\0", 0x7FF7B822B9B0, 0x0)    = 0 0

open("/usr/local/opt/gcc/lib/gcc/current/libstdc++.6.dylib\0", 0x0, 0x0)                = 3 0

mmap(0x0, 0x3C2770, 0x1, 0x40002, 0x3, 0x0)      = 0x108241000 0

fcntl(0x3, 0x32, 0x7FF7B822BAC0)                = 0 0

close(0x3)                                       = 0 0

open("/usr/local/Cellar/gcc/13.2.0/lib/gcc/current/libstdc++.6.dylib\0", 0x0, 0x0)      = 3 0

fcntl(0x3, 0x62, 0x7FF7B822B778)                = 0 0

mmap(0x108604000, 0x1E4000, 0x5, 0x40012, 0x3, 0x0) = 0x108604000 0

mmap(0x1087E8000, 0xC000, 0x3, 0x40012, 0x3, 0x1E4000) = 0x1087E8000 0

mmap(0x1087F4000, 0xC000, 0x3, 0x40012, 0x3, 0x1F0000) = 0x1087F4000 0

mmap(0x108804000, 0x1C8000, 0x1, 0x40012, 0x3, 0x1FC000) = 0x108804000 0

close(0x3)                                       = 0 0

munmap(0x108241000, 0x3C2770)                    = 0 0

open("/usr/local/opt/gcc/lib/gcc/current/libgcc_s.1.1.dylib\0", 0x0, 0x0)              = 3 0

fcntl(0x3, 0x32, 0x7FF7B822C390)                = 0 0

close(0x3)                                       = 0 0

stat64("/usr/local/opt/gcc/lib/gcc/current/libgcc_s.1.1.dylib\0", 0x7FF7B822BF50, 0x0)    = 0 0

stat64("/usr/local/opt/gcc/lib/gcc/current/libgcc_s.1.1.dylib\0", 0x7FF7B822B9B0, 0x0)    = 0 0

open("/usr/local/opt/gcc/lib/gcc/current/libgcc_s.1.1.dylib\0", 0x0, 0x0)              = 3 0

mmap(0x0, 0x2D310, 0x1, 0x40002, 0x3, 0x0)      = 0x108101000 0

fcntl(0x3, 0x32, 0x7FF7B822BAC0)                = 0 0

close(0x3)                                       = 0 0

open("/usr/local/Cellar/gcc/13.2.0/lib/gcc/current/libgcc_s.1.1.dylib\0", 0x0, 0x0)      = 3 0
```

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fcntl(0x3, 0x62, 0x7FF7B822B798)          = 0 0

mmap(0x10812F000, 0x1C000, 0x5, 0x40012, 0x3, 0x4000)    = 0x10812F000 0

mmap(0x10814B000, 0x4000, 0x3, 0x40012, 0x3, 0x20000)    = 0x10814B000 0

mmap(0x10814F000, 0xC000, 0x1, 0x40012, 0x3, 0x24000)    = 0x10814F000 0

close(0x3)          = 0 0

munmap(0x108101000, 0x2D310)              = 0 0

stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7B822BF50, 0x0)    = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libSystem.B.dylib\0", 0x7FF7B822BF00, 0x0)    = -1 2

stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7B822BF50, 0x0)    = -1 2

stat64("/usr/lib/libobjc.A.dylib\0", 0x7FF7B8229BA0, 0x0)      = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libobjc.A.dylib\0", 0x7FF7B8229B50, 0x0)    = -1 2

stat64("/usr/lib/libobjc.A.dylib\0", 0x7FF7B8229BA0, 0x0)      = -1 2

stat64("/usr/lib/system/libsystem_blocks.dylib\0", 0x7FF7B8229BA0, 0x0)    = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_blocks.dylib\0", 0x7FF7B8229B40, 0x0)    = -1 2

stat64("/usr/lib/system/libsystem_blocks.dylib\0", 0x7FF7B8229BA0, 0x0)    = -1 2

stat64("/usr/lib/system/libxpc.dylib\0", 0x7FF7B8229BA0, 0x0)    = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libxpc.dylib\0", 0x7FF7B8229B50, 0x0)    = -1 2

stat64("/usr/lib/system/libxpc.dylib\0", 0x7FF7B8229BA0, 0x0)    = -1 2

stat64("/usr/lib/system/libsystem_trace.dylib\0", 0x7FF7B8229BA0, 0x0)    = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_trace.dylib\0", 0x7FF7B8229B40, 0x0)    = -1 2

stat64("/usr/lib/system/libsystem_trace.dylib\0", 0x7FF7B8229BA0, 0x0)    = -1 2

stat64("/usr/lib/system/libcorecrypto.dylib\0", 0x7FF7B8229BA0, 0x0)    = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libcorecrypto.dylib\0", 0x7FF7B8229B50, 0x0)    = -1 2

stat64("/usr/lib/system/libcorecrypto.dylib\0", 0x7FF7B8229BA0, 0x0)    = -1 2

stat64("/usr/lib/system/libsystem_malloc.dylib\0", 0x7FF7B8229BA0, 0x0)    = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_malloc.dylib\0", 0x7FF7B8229B40, 0x0)    = -1 2

stat64("/usr/lib/system/libsystem_malloc.dylib\0", 0x7FF7B8229BA0, 0x0)    = -1 2

stat64("/usr/lib/system/libdispatch.dylib\0", 0x7FF7B8229BA0, 0x0)    = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libdispatch.dylib\0", 0x7FF7B8229B50, 0x0)    = -1 2

stat64("/usr/lib/system/libdispatch.dylib\0", 0x7FF7B8229BA0, 0x0)    = -1 2

stat64("/usr/lib/system/libsystem_featureflags.dylib\0", 0x7FF7B8229BA0, 0x0)    = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_featureflags.dylib\0", 0x7FF7B8229B40, 0x0)    = -1 2

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stat64("/usr/lib/system/libsystem_featureflags.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_c.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_c.dylib\0", 0x7FF7B8229B50, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_c.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/libc++.1.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libc++.1.dylib\0", 0x7FF7B8229B50, 0x0) = -1 2

stat64("/usr/lib/libc++.1.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/libc++abi.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libc++abi.dylib\0", 0x7FF7B8229B50, 0x0) = -1 2

stat64("/usr/lib/libc++abi.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/system/libdyld.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libdyld.dylib\0", 0x7FF7B8229B50, 0x0) = -1 2

stat64("/usr/lib/system/libdyld.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_info.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_info.dylib\0", 0x7FF7B8229B50, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_info.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_darwin.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_darwin.dylib\0", 0x7FF7B8229B40, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_darwin.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_notify.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_notify.dylib\0", 0x7FF7B8229B40, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_notify.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_networkextension.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_networkextension.dylib\0", 0x7FF7B8229B40, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_networkextension.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_asl.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_asl.dylib\0", 0x7FF7B8229B50, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_asl.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_symptoms.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_symptoms.dylib\0", 0x7FF7B8229B40, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_symptoms.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_containermanager.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_containermanager.dylib\0", 0x7FF7B8229B40, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_containermanager.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_configuration.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_configuration.dylib\0", 0x7FF7B8229B40, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_configuration.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_sandbox.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_sandbox.dylib\0", 0x7FF7B8229B40, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_sandbox.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/system/libquarantine.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libquarantine.dylib\0", 0x7FF7B8229B50, 0x0) = -1 2

stat64("/usr/lib/system/libquarantine.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_coreservices.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_coreservices.dylib\0", 0x7FF7B8229B40, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_coreservices.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_m.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_m.dylib\0", 0x7FF7B8229B50, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_m.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/system/libmacho.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libmacho.dylib\0", 0x7FF7B8229B50, 0x0) = -1 2

stat64("/usr/lib/system/libmacho.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/system/libcommonCrypto.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libcommonCrypto.dylib\0", 0x7FF7B8229B40, 0x0) = -1 2

stat64("/usr/lib/system/libcommonCrypto.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/system/libunwind.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libunwind.dylib\0", 0x7FF7B8229B50, 0x0) = -1 2

stat64("/usr/lib/system/libunwind.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/liboah.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/liboah.dylib\0", 0x7FF7B8229B50, 0x0) = -1 2

stat64("/usr/lib/liboah.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/system/libcopyfile.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libcopyfile.dylib\0", 0x7FF7B8229B50, 0x0) = -1 2

stat64("/usr/lib/system/libcopyfile.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/system/libcompiler_rt.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libcompiler_rt.dylib\0", 0x7FF7B8229B50, 0x0) = -1 2

stat64("/usr/lib/system/libcompiler_rt.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_collections.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_collections.dylib\0", 0x7FF7B8229B40, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_collections.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_secinit.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_secinit.dylib\0", 0x7FF7B8229B40, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_secinit.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/system/libremovefile.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libremovefile.dylib\0", 0x7FF7B8229B50, 0x0) = -1 2

stat64("/usr/lib/system/libremovefile.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/system/libkeymgr.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libkeymgr.dylib\0", 0x7FF7B8229B50, 0x0) = -1 2

stat64("/usr/lib/system/libkeymgr.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_dnssd.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_dnssd.dylib\0", 0x7FF7B8229B40, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_dnssd.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/system/libcache.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libcache.dylib\0", 0x7FF7B8229B50, 0x0) = -1 2

stat64("/usr/lib/system/libcache.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libSystem.B.dylib\0", 0x7FF7B8229B50, 0x0) = -1 2

stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_darwindirectory.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_darwindirectory.dylib\0", 0x7FF7B8229B40, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_darwindirectory.dylib\0", 0x7FF7B8229BA0, 0x0) = -1 2

stat64("/usr/lib/libconv.2.dylib\0", 0x7FF7B822BE70, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libconv.2.dylib\0", 0x7FF7B822BE20, 0x0) = -1 2

stat64("/usr/lib/libconv.2.dylib\0", 0x7FF7B822BE70, 0x0) = -1 2

stat64("/usr/lib/libcharset.1.dylib\0", 0x7FF7B8229AC0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libcharset.1.dylib\0", 0x7FF7B8229A70, 0x0) = -1 2

```

stat64("/usr/lib/libcharset.1.dylib\0", 0x7FF7B8229AC0, 0x0)      = -1 2

stat64("/usr/lib/libiconv.2.dylib\0", 0x7FF7B8229AC0, 0x0)      = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libiconv.2.dylib\0", 0x7FF7B8229A70, 0x0)  = -1 2

stat64("/usr/lib/libiconv.2.dylib\0", 0x7FF7B8229AC0, 0x0)      = -1 2

open("@rpath/libgcc_s.1.1.dylib\0", 0x0, 0x0)                  = -1 2

open("@rpath\0", 0x100000, 0x0)                                  = -1 2

stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7B822BE70, 0x0)     = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libSystem.B.dylib\0", 0x7FF7B822BE20, 0x0)  = -1 2

stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7B822BE70, 0x0)     = -1 2

open("/dev/dtracehelper\0", 0x2, 0x0)                           = 3 0

ioctl(0x3, 0x80086804, 0x7FF7B822B9D8)                         = 0 0

close(0x3)                                                       = 0 0

open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab2/scr/prog\0", 0x0, 0x0)      = 3 0

__mac_syscall(0x7FF808646E3B, 0x2, 0x7FF7B822B0B0)             = 0 0

map_with_linking_np(0x7FF7B822ABA0, 0x1, 0x7FF7B822ABD0)        = -1 22

close(0x3)                                                       = 0 0

mprotect(0x107CDA000, 0x4000, 0x1)                               = 0 0

open("/usr/local/Cellar/gcc/13.2.0/lib/gcc/current/libstdc++.6.dylib\0", 0x0, 0x0)  = 3 0

__mac_syscall(0x7FF808646E3B, 0x2, 0x7FF7B822B0B0)             = 0 0

map_with_linking_np(0x7FF7B8228210, 0x2, 0x7FF7B8228260)        = -1 22

close(0x3)                                                       = 0 0

mprotect(0x1087E8000, 0xC000, 0x1)                               = 0 0

shared_region_check_np(0xFFFFFFFFFFFFFFFF, 0x0, 0x0)           = 0 0

mprotect(0x108200000, 0x40000, 0x1)                             = 0 0

access("/AppleInternal/XBS/.isChrooted\0", 0x0, 0x0)           = -1 2

bsdthread_register(0x7FF808939B9C, 0x7FF808939B88, 0x2000)      = 1073742303 0

getpid(0x0, 0x0, 0x0)                                           = 1981 0

shm_open(0x7FF8087DCF42, 0x0, 0x87DB388)                       = 3 0

fstat64(0x3, 0x7FF7B822C020, 0x0)                               = 0 0

mmap(0x0, 0x4000, 0x1, 0x40001, 0x3, 0x0)                      = 0x107CEC000 0

close(0x3)                                                       = 0 0

ioctl(0x2, 0x4004667A, 0x7FF7B822C0E4)                         = 0 0

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mprotect(0x107CF5000, 0x1000, 0x0)      = 0 0

mprotect(0x107CFC000, 0x1000, 0x0)      = 0 0

mprotect(0x108101000, 0x1000, 0x0)      = 0 0

mprotect(0x108108000, 0x1000, 0x0)      = 0 0

mprotect(0x107CF0000, 0x98, 0x1)        = 0 0

mprotect(0x107CF0000, 0x98, 0x3)        = 0 0

mprotect(0x107CF0000, 0x98, 0x1)        = 0 0

mprotect(0x107CFD000, 0x1000, 0x1)      = 0 0

mprotect(0x108109000, 0x98, 0x1)        = 0 0

mprotect(0x108109000, 0x98, 0x3)        = 0 0

mprotect(0x108109000, 0x98, 0x1)        = 0 0

mprotect(0x107CF0000, 0x98, 0x3)        = 0 0

mprotect(0x107CF0000, 0x98, 0x1)        = 0 0

mprotect(0x107CFD000, 0x1000, 0x3)      = 0 0

mprotect(0x107CFD000, 0x1000, 0x1)      = 0 0

mprotect(0x108200000, 0x40000, 0x3)      = 0 0

mprotect(0x108200000, 0x40000, 0x1)      = 0 0

issetugid(0x0, 0x0, 0x0)              = 0 0

mprotect(0x108200000, 0x40000, 0x3)      = 0 0

mprotect(0x108200000, 0x40000, 0x1)      = 0 0

mprotect(0x108200000, 0x40000, 0x3)      = 0 0

mprotect(0x108200000, 0x40000, 0x1)      = 0 0

getattrlist("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab2/scr/prog\0", 0x7FF7B822BFC0, 0x7FF7B822BFD8) = 0 0

access("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab2/scr\0", 0x4, 0x0)          = 0 0

open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab2/scr\0", 0x0, 0x0)            = 3 0

fstat64(0x3, 0x7FB6E8F04530, 0x0)          = 0 0

csctl(0x0, 0x7FF7B822C21C, 0x4)            = -1 1

fgetattrlist(0x3, 0x7FF7B822C230, 0x7FF7B822C250) = 0 0

__mac_syscall(0x7FF813CFA6A4, 0x2, 0x7FF7B822C250) = 0 0

fcntl(0x3, 0x32, 0x7FF7B822BED0)           = 0 0

close(0x3)                                  = 0 0

open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab2/scr/Info.plist\0", 0x0, 0x0) = -1 2

```



```

proc_info(0x2, 0x7BD, 0xD)          = 64 0

csops_audittoken(0x7BD, 0x10, 0x7FF7B822C220)    = -1 22

dtrace: error on enabled probe ID 1741 (ID 573: syscall::syscall:return): invalid kernel access in action #10 at DIF offset 28

dtrace: error on enabled probe ID 1741 (ID 573: syscall::syscall:return): invalid kernel access in action #10 at DIF offset 28

csops(0x7BD, 0x0, 0x7FF7B822C684)          = 0 0

syscallbyname(kern.system_version_compat, 0x1A, 0x0, 0x0, 0x7FF7B822C6B4)          = 0 0

mprotect(0x108200000, 0x40000, 0x3)        = 0 0

getrlimit(0x1008, 0x7FF7B822D420, 0x0)     = 0 0

fstat64(0x1, 0x7FF7B822D408, 0x0)          = 0 0

ioctl(0x1, 0x4004667A, 0x7FF7B822D454)     = 0 0

fstat64(0x0, 0x7FF7B822D048, 0x0)          = 0 0

dtrace: error on enabled probe ID 1714 (ID 961: syscall::read_nocancel:return): invalid kernel access in action #12 at DIF offset 68

dtrace: error on enabled probe ID 1714 (ID 961: syscall::read_nocancel:return): invalid kernel access in action #12 at DIF offset 68

bsdthread_create(0x107CD5694, 0x600001625200, 0x70000485B000)    = 75870208 0

thread_selfid(0x0, 0x0, 0x0)              = 526321 0

bsdthread_create(0x107CD5694, 0x600001625208, 0x7000048DE000)    = 76406784 0

__disable_threadsignal(0x1, 0x0, 0x0)      = 0 0

bsdthread_create(0x107CD5694, 0x600001625210, 0x700004961000)    = 76943360 0

thread_selfid(0x0, 0x0, 0x0)              = 526322 0

thread_selfid(0x0, 0x0, 0x0)              = 526323 0

__disable_threadsignal(0x1, 0x0, 0x0)      = 0 0

__disable_threadsignal(0x1, 0x0, 0x0)      = 0 0

ulock_wake(0x1000002, 0x7000048DE034, 0x0) = 0 0

ulock_wait(0x1020002, 0x7000048DE034, 0x1B0B) = 0 0

dtrace: error on enabled probe ID 1712 (ID 963: syscall::write_nocancel:return): invalid kernel access in action #12 at DIF offset 68

dtrace: error on enabled probe ID 1712 (ID 963: syscall::write_nocancel:return): invalid kernel access in action #12 at DIF offset 68

dtrace: error on enabled probe ID 1712 (ID 963: syscall::write_nocancel:return): invalid kernel access in action #12 at DIF offset 68

dtrace: error on enabled probe ID 1712 (ID 963: syscall::write_nocancel:return): invalid kernel access in action #12 at DIF offset 68

```

Lab3

mishazhadnov@McB-airmi scr % sudo dtruss -f ./parent

Password:

dtrace: system integrity protection is on, some features will not be available

```
PID/THRD SYSCALL(args)          = return

15678/0x9045d: fork()              = 0 0

15678/0x9045d: munmap(0x1084EE000, 0xA0000)      = 0 0

15678/0x9045d: munmap(0x10858E000, 0x8000)        = 0 0

15678/0x9045d: munmap(0x108596000, 0x4000)        = 0 0

15678/0x9045d: munmap(0x10859A000, 0x4000)        = 0 0

15678/0x9045d: munmap(0x10859E000, 0x58000)        = 0 0

15678/0x9045d: open(".", 0x100000, 0x0)          = 3 0

15678/0x9045d: fcntl(0x3, 0x32, 0x7FF7BA113290)    = 0 0

15678/0x9045d: close(0x3)              = 0 0

15678/0x9045d: fsgetpath(0x7FF7BA1132A0, 0x400, 0x7FF7BA113288) = 58 0

15678/0x9045d: fsgetpath(0x7FF7BA1132A0, 0x400, 0x7FF7BA113288) = 14 0

15678/0x9045d: csctl(0x0, 0x7FF7BA1136AC, 0x4)      = -1 1

15678/0x9045d: __mac_syscall(0x7FF8040EFE3B, 0x2, 0x7FF7BA113510) = 0 0

15678/0x9045d: csctl(0x0, 0x7FF7BA1136BC, 0x4)      = -1 1

15678/0x9045d: __mac_syscall(0x7FF8040ECDC6, 0x5A, 0x7FF7BA113650) = 0 0

dtrace: error on enabled probe ID 1741 (ID 573: syscall::syscall:return): invalid kernel access in action #11 at DIF offset 28

dtrace: error on enabled probe ID 1741 (ID 573: syscall::syscall:return): invalid kernel access in action #11 at DIF offset 28

dtrace: error on enabled probe ID 1741 (ID 573: syscall::syscall:return): invalid kernel access in action #11 at DIF offset 28

dtrace: error on enabled probe ID 1741 (ID 573: syscall::syscall:return): invalid kernel access in action #11 at DIF offset 28

15678/0x9045d: open("/^0", 0x20100000, 0x0)        = 3 0

15678/0x9045d: openat(0x3, "System/Cryptexes/OS\0", 0x100000, 0x0) = 4 0

15678/0x9045d: dup(0x4, 0x0, 0x0)                  = 5 0

15678/0x9045d: fstatat64(0x4, 0x7FF7BA1123F1, 0x7FF7BA1127F0)    = 0 0

15678/0x9045d: openat(0x4, "System/Library/dyld/^0", 0x100000, 0x0) = 6 0

15678/0x9045d: fcntl(0x6, 0x32, 0x7FF7BA112480)    = 0 0

15678/0x9045d: dup(0x6, 0x0, 0x0)                  = 7 0

15678/0x9045d: dup(0x5, 0x0, 0x0)                  = 8 0

15678/0x9045d: close(0x3)              = 0 0

15678/0x9045d: close(0x5)              = 0 0
```

```

15678/0x9045d: close(0x4)          = 0 0

15678/0x9045d: close(0x6)          = 0 0

15678/0x9045d: shared_region_check_np(0x7FF7BA112D68, 0x0, 0x0)          = 0 0

15678/0x9045d: fsgetpath(0x7FF7BA1132D0, 0x400, 0x7FF7BA113208)          = 83 0

15678/0x9045d: fcntl(0x8, 0x32, 0x7FF7BA1132D0)          = 0 0

15678/0x9045d: close(0x8)          = 0 0

15678/0x9045d: close(0x7)          = 0 0

15678/0x9045d: getfsstat64(0x0, 0x0, 0x2)          = 7 0

15678/0x9045d: getfsstat64(0x106302AA0, 0x3B48, 0x2)          = 7 0

15678/0x9045d: getattrlist("/0", 0x7FF7BA113210, 0x7FF7BA113180)          = 0 0

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/dyld/dyld_shared_cache_x86_64h\0", 0x7FF7BA113548, 0x0)          = 0 0

dtrace: error on enabled probe ID 1690 (ID 845: syscall::stat64:return): invalid address (0x0) in action #12 at DIF offset 12

15678/0x9045d: stat64("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab3/scr/parent\0", 0x7FF7BA1129E0, 0x0)          = 0 0

15678/0x9045d: open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab3/scr/parent\0", 0x0, 0x0)          = 3 0

15678/0x9045d: mmap(0x0, 0x8468, 0x1, 0x40002, 0x3, 0x0)          = 0x106201000 0

15678/0x9045d: fcntl(0x3, 0x32, 0x7FF7BA112AF0)          = 0 0

15678/0x9045d: close(0x3)          = 0 0

15678/0x9045d: munmap(0x106201000, 0x8468)          = 0 0

15678/0x9045d: stat64("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab3/scr/parent\0", 0x7FF7BA112F40, 0x0)          = 0 0

15678/0x9045d: stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7BA111F50, 0x0)          = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libSystem.B.dylib\0", 0x7FF7BA111F00, 0x0)          = -1 2

15678/0x9045d: stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7BA111F50, 0x0)          = -1 2

15678/0x9045d: stat64("/usr/lib/libobjc.A.dylib\0", 0x7FF7BA10FBA0, 0x0)          = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libobjc.A.dylib\0", 0x7FF7BA10FB50, 0x0)          = -1 2

15678/0x9045d: stat64("/usr/lib/libobjc.A.dylib\0", 0x7FF7BA10FBA0, 0x0)          = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_blocks.dylib\0", 0x7FF7BA10FBA0, 0x0)          = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_blocks.dylib\0", 0x7FF7BA10FB40, 0x0)          = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_blocks.dylib\0", 0x7FF7BA10FBA0, 0x0)          = -1 2

15678/0x9045d: stat64("/usr/lib/system/libxpc.dylib\0", 0x7FF7BA10FBA0, 0x0)          = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libxpc.dylib\0", 0x7FF7BA10FB50, 0x0)          = -1 2

15678/0x9045d: stat64("/usr/lib/system/libxpc.dylib\0", 0x7FF7BA10FBA0, 0x0)          = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_trace.dylib\0", 0x7FF7BA10FBA0, 0x0)          = -1 2

```

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_trace.dylib\0", 0x7FF7BA10FB40, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_trace.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libcorecrypto.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libcorecrypto.dylib\0", 0x7FF7BA10FB50, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libcorecrypto.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_malloc.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_malloc.dylib\0", 0x7FF7BA10FB40, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_malloc.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libdispatch.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libdispatch.dylib\0", 0x7FF7BA10FB50, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libdispatch.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_featureflags.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_featureflags.dylib\0", 0x7FF7BA10FB40, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_featureflags.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_c.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_c.dylib\0", 0x7FF7BA10FB50, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_c.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/libc++.1.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libc++.1.dylib\0", 0x7FF7BA10FB50, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/libc++.1.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/libc++abi.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libc++abi.dylib\0", 0x7FF7BA10FB50, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/libc++abi.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libdyld.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libdyld.dylib\0", 0x7FF7BA10FB50, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libdyld.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_info.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_info.dylib\0", 0x7FF7BA10FB50, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_info.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_darwin.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_darwin.dylib\0", 0x7FF7BA10FB40, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_darwin.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_notify.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_notify.dylib\0", 0x7FF7BA10FB40, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_notify.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_networkextension.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_networkextension.dylib\0", 0x7FF7BA10FB40, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_networkextension.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_asl.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_asl.dylib\0", 0x7FF7BA10FB50, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_asl.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_symptoms.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_symptoms.dylib\0", 0x7FF7BA10FB40, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_symptoms.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_containermanager.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_containermanager.dylib\0", 0x7FF7BA10FB40, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_containermanager.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_configuration.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_configuration.dylib\0", 0x7FF7BA10FB40, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_configuration.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_sandbox.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_sandbox.dylib\0", 0x7FF7BA10FB40, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_sandbox.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libquarantine.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libquarantine.dylib\0", 0x7FF7BA10FB50, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libquarantine.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_coreservices.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_coreservices.dylib\0", 0x7FF7BA10FB40, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_coreservices.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_m.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_m.dylib\0", 0x7FF7BA10FB50, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_m.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libmacho.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libmacho.dylib\0", 0x7FF7BA10FB50, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libmacho.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libcommonCrypto.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libcommonCrypto.dylib\0", 0x7FF7BA10FB40, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libcommonCrypto.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libunwind.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libunwind.dylib\0", 0x7FF7BA10FB50, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libunwind.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/liboah.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/liboah.dylib\0", 0x7FF7BA10FB50, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/liboah.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libcopyfile.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libcopyfile.dylib\0", 0x7FF7BA10FB50, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libcopyfile.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libcompiler_rt.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libcompiler_rt.dylib\0", 0x7FF7BA10FB50, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libcompiler_rt.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_collections.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_collections.dylib\0", 0x7FF7BA10FB40, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_collections.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_secinit.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_secinit.dylib\0", 0x7FF7BA10FB40, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_secinit.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libremovefile.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libremovefile.dylib\0", 0x7FF7BA10FB50, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libremovefile.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libkeymgr.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libkeymgr.dylib\0", 0x7FF7BA10FB50, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libkeymgr.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_dnssd.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_dnssd.dylib\0", 0x7FF7BA10FB40, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_dnssd.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

15678/0x9045d: stat64("/usr/lib/system/libcache.dylib\0", 0x7FF7BA10FBA0, 0x0) = -1 2

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15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libcache.dylib\0", 0x7FF7BA10FB50, 0x0)      = -1 2

15678/0x9045d: stat64("/usr/lib/system/libcache.dylib\0", 0x7FF7BA10FBA0, 0x0)      = -1 2

15678/0x9045d: stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7BA10FBA0, 0x0)        = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libSystem.B.dylib\0", 0x7FF7BA10FB50, 0x0)      = -1 2

15678/0x9045d: stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7BA10FBA0, 0x0)        = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_darwindirectory.dylib\0", 0x7FF7BA10FBA0, 0x0)      = -1 2

15678/0x9045d: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_darwindirectory.dylib\0", 0x7FF7BA10FB40, 0x0)  = -1 2

15678/0x9045d: stat64("/usr/lib/system/libsystem_darwindirectory.dylib\0", 0x7FF7BA10FBA0, 0x0)      = -1 2

15678/0x9045d: open("/dev/dtracehelper\0", 0x2, 0x0)                             = 3 0

15678/0x9045d: ioctl(0x3, 0x80086804, 0x7FF7BA111B38)                         = 0 0

15678/0x9045d: close(0x3)                                                    = 0 0

15678/0x9045d: open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab3/scr/parent\0", 0x0, 0x0)        = 3 0

15678/0x9045d: __mac_syscall(0x7FF8040EFE3B, 0x2, 0x7FF7BA1110F0)            = 0 0


15678/0x9045d: map_with_linking_np(0x7FF7BA111040, 0x1, 0x7FF7BA111070)      = -1 22


15678/0x9045d: close(0x3)                                                    = 0 0

15678/0x9045d: mprotect(0x105DF0000, 0x4000, 0x1)                          = 0 0

15678/0x9045d: shared_region_check_np(0xFFFFFFFFFFFFFFFF, 0x0, 0x0)          = 0 0

15678/0x9045d: mprotect(0x106300000, 0x40000, 0x1)                          = 0 0

15678/0x9045d: access("/AppleInternal/XBS/.isChrooted\0", 0x0, 0x0)         = -1 2

15678/0x9045d: bsdthread_register(0x7FF8043E2B9C, 0x7FF8043E2B88, 0x2000)    = 1073742303 0

15678/0x9045d: getpid(0x0, 0x0, 0x0)                                         = 15678 0

15678/0x9045d: shm_open(0x7FF804285F42, 0x0, 0x4284388)                     = 3 0

15678/0x9045d: fstat64(0x3, 0x7FF7BA112060, 0x0)                           = 0 0

15678/0x9045d: mmap(0x0, 0x4000, 0x1, 0x40001, 0x3, 0x0)                    = 0x105DFA000 0

15678/0x9045d: close(0x3)                                                    = 0 0

15678/0x9045d: ioctl(0x2, 0x4004667A, 0x7FF7BA112124)                       = 0 0

15678/0x9045d: mprotect(0x106206000, 0x1000, 0x0)                          = 0 0

15678/0x9045d: mprotect(0x10620D000, 0x1000, 0x0)                          = 0 0

15678/0x9045d: mprotect(0x10620E000, 0x1000, 0x0)                          = 0 0

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15678/0x9045d: mprotect(0x106215000, 0x1000, 0x0)      = 0 0

15678/0x9045d: mprotect(0x106201000, 0x98, 0x1)        = 0 0

15678/0x9045d: mprotect(0x106201000, 0x98, 0x3)        = 0 0

15678/0x9045d: mprotect(0x106201000, 0x98, 0x1)        = 0 0

15678/0x9045d: mprotect(0x105DFE000, 0x1000, 0x1)      = 0 0

15678/0x9045d: mprotect(0x106216000, 0x98, 0x1)        = 0 0

15678/0x9045d: mprotect(0x106216000, 0x98, 0x3)        = 0 0

15678/0x9045d: mprotect(0x106216000, 0x98, 0x1)        = 0 0

15678/0x9045d: mprotect(0x106201000, 0x98, 0x3)        = 0 0

15678/0x9045d: mprotect(0x106201000, 0x98, 0x1)        = 0 0

15678/0x9045d: mprotect(0x105DFE000, 0x1000, 0x3)      = 0 0

15678/0x9045d: mprotect(0x105DFE000, 0x1000, 0x1)      = 0 0

15678/0x9045d: mprotect(0x106300000, 0x40000, 0x3)     = 0 0

15678/0x9045d: mprotect(0x106300000, 0x40000, 0x1)     = 0 0

15678/0x9045d: issetugid(0x0, 0x0, 0x0)               = 0 0

15678/0x9045d: mprotect(0x106300000, 0x40000, 0x3)     = 0 0

15678/0x9045d: getentropy(0x7FF7BA111950, 0x20, 0x0)   = 0 0

15678/0x9045d: mprotect(0x106300000, 0x40000, 0x1)     = 0 0

15678/0x9045d: mprotect(0x106300000, 0x40000, 0x3)     = 0 0

15678/0x9045d: mprotect(0x106300000, 0x40000, 0x1)     = 0 0

15678/0x9045d: getatrlist("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab3/scr/parent\0", 0x7FF7BA112000, 0x7FF7BA112018) = 0 0

15678/0x9045d: access("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab3/scr\0", 0x4, 0x0)              = 0 0

15678/0x9045d: open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab3/scr\0", 0x0, 0x0)                = 3 0

15678/0x9045d: fstat64(0x3, 0x7F84BE704530, 0x0)          = 0 0

15678/0x9045d: csctl(0x0, 0x7FF7BA11225C, 0x4)            = -1 1

15678/0x9045d: fgetatrlist(0x3, 0x7FF7BA112270, 0x7FF7BA112290) = 0 0

15678/0x9045d: __mac_syscall(0x7FF80F7A36A4, 0x2, 0x7FF7BA112290) = 0 0

15678/0x9045d: fcntl(0x3, 0x32, 0x7FF7BA111F10)           = 0 0

15678/0x9045d: close(0x3)                                   = 0 0

15678/0x9045d: open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab3/scr/Info.plist\0", 0x0, 0x0)        = -1 2

15678/0x9045d: proc_info(0x2, 0x3D3E, 0xD)                 = 64 0

15678/0x9045d: csops_audittoken(0x3D3E, 0x10, 0x7FF7BA112260) = -1 22

```


dtrace: error on enabled probe ID 1741 (ID 573: syscall::syscall:return): invalid kernel access in action #11 at DIF offset 28

dtrace: error on enabled probe ID 1741 (ID 573: syscall::syscall:return): invalid kernel access in action #11 at DIF offset 28

15678/0x9045d: csops(0x3D3E, 0x0, 0x7FF7BA1126C4) = 0 0

15678/0x9045d: mprotect(0x106300000, 0x40000, 0x3) = 0 0

15678/0x9045d: getrlimit(0x1008, 0x7FF7BA112FA0, 0x0) = 0 0

15678/0x9045d: fstat64(0x0, 0x7FF7BA112F88, 0x0) = 0 0

15678/0x9045d: ioctl(0x0, 0x4004667A, 0x7FF7BA112FD4) = 0 0

test_ok.txt

(child)fruncate: here is a problem

: Invalid argument

shm_open: here is a problem

: No such file or directory

dtrace: error on enabled probe ID 1714 (ID 961: syscall::read_nocancel:return): invalid kernel access in action #13 at DIF offset 68

15678/0x9045d: open("test_ok.txt\0", 0x0, 0x0) = 3 0

15678/0x9045d: fstat64(0x3, 0x7FF7BA113690, 0x0) = 0 0

15678/0x9045d: fork() = 15683 0

15683/0x904f3: fork() = 0 0

15683/0x904f3: thread_selfid(0x0, 0x0, 0x0) = 591091 0

15683/0x904f3: bsdthread_register(0x7FF8043E2B9C, 0x7FF8043E2B88, 0x2000) = -1 22

15683/0x904f3: mprotect(0x106216000, 0x98, 0x3) = 0 0

15683/0x904f3: mprotect(0x106216000, 0x98, 0x1) = 0 0

15683/0x904f3: dup2(0x3, 0x0, 0x0) = 0 0

dtrace: error on enabled probe ID 1688 (ID 287: syscall::execve:return): invalid address (0x105def20) in action #12 at DIF offset 12

15683/0x904f4: fork() = 0 0

15683/0x904f4: mprotect(0x104451000, 0x8000, 0x1) = 0 0

15683/0x904f4: thread_selfid(0x0, 0x0, 0x0) = 591092 0

15683/0x904f4: shared_region_check_np(0x7FF7BC285900, 0x0, 0x0) = 0 0

15683/0x904f4: thread_selfid(0x0, 0x0, 0x0) = 591092 0

15683/0x904f4: getpid(0x0, 0x0, 0x0) = 15683 0

15683/0x904f4: proc_info(0xF, 0x3D43, 0x0) = 0 0

15683/0x904f4: munmap(0x1043B1000, 0xA0000) = 0 0

15683/0x904f4: munmap(0x104451000, 0x8000) = 0 0

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15683/0x904f4: munmap(0x104459000, 0x4000)      = 0 0

15683/0x904f4: munmap(0x10445D000, 0x4000)      = 0 0

15683/0x904f4: munmap(0x104461000, 0x58000)      = 0 0

15683/0x904f4: open(".", 0x100000, 0x0)          = 4 0

15683/0x904f4: fcntl(0x4, 0x32, 0x7FF7BC285290)    = 0 0

15683/0x904f4: close(0x4)                        = 0 0

15683/0x904f4: fsgetpath(0x7FF7BC2852A0, 0x400, 0x7FF7BC285288)    = 57 0

15683/0x904f4: fsgetpath(0x7FF7BC2852A0, 0x400, 0x7FF7BC285288)    = 14 0

15683/0x904f4: csrctl(0x0, 0x7FF7BC2856AC, 0x4)      = -1 1

15683/0x904f4: __mac_syscall(0x7FF8040EFE3B, 0x2, 0x7FF7BC285510)    = 0 0

15683/0x904f4: csrctl(0x0, 0x7FF7BC2856BC, 0x4)      = -1 1

15683/0x904f4: __mac_syscall(0x7FF8040ECDC6, 0x5A, 0x7FF7BC285650)    = 0 0

dtrace: error on enabled probe ID 1741 (ID 573: syscall::syscall:return): invalid kernel access in action #11 at DIF offset 28

dtrace: error on enabled probe ID 1741 (ID 573: syscall::syscall:return): invalid kernel access in action #11 at DIF offset 28

dtrace: error on enabled probe ID 1741 (ID 573: syscall::syscall:return): invalid kernel access in action #11 at DIF offset 28

dtrace: error on enabled probe ID 1741 (ID 573: syscall::syscall:return): invalid kernel access in action #11 at DIF offset 28

15683/0x904f4: open("/^0", 0x20100000, 0x0)          = 4 0

15683/0x904f4: openat(0x4, "System/Cryptexes/OS\0", 0x100000, 0x0)    = 5 0

15683/0x904f4: dup(0x5, 0x0, 0x0)                  = 6 0

15683/0x904f4: fstatat64(0x5, 0x7FF7BC2843F1, 0x7FF7BC2847F0)    = 0 0

15683/0x904f4: openat(0x5, "System/Library/dyld/^0", 0x100000, 0x0)    = 7 0

15683/0x904f4: fcntl(0x7, 0x32, 0x7FF7BC284480)    = 0 0

15683/0x904f4: dup(0x7, 0x0, 0x0)                  = 8 0

15683/0x904f4: dup(0x6, 0x0, 0x0)                  = 9 0

15683/0x904f4: close(0x4)                          = 0 0

15683/0x904f4: close(0x6)                          = 0 0

15683/0x904f4: close(0x5)                          = 0 0

15683/0x904f4: close(0x7)                          = 0 0

15683/0x904f4: shared_region_check_np(0x7FF7BC284D68, 0x0, 0x0)    = 0 0

15683/0x904f4: fsgetpath(0x7FF7BC2852D0, 0x400, 0x7FF7BC285208)    = 83 0

15683/0x904f4: fcntl(0x9, 0x32, 0x7FF7BC2852D0)    = 0 0

15683/0x904f4: close(0x9)                          = 0 0

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15683/0x904f4: close(0x8)          = 0 0

15683/0x904f4: getfsstat64(0x0, 0x0, 0x2)      = 7 0

15683/0x904f4: getfsstat64(0x104202AA0, 0x3B48, 0x2)  = 7 0

15683/0x904f4: getattrlist("/^0", 0x7FF7BC285210, 0x7FF7BC285180)    = 0 0

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/dyld/dyld_shared_cache_x86_64h\0", 0x7FF7BC285548, 0x0)    = 0 0

dtrace: error on enabled probe ID 1690 (ID 845: syscall::stat64:return): invalid address (0x0) in action #12 at DIF offset 12

15683/0x904f4: stat64("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab3/scr/child\0", 0x7FF7BC2849E0, 0x0)      = 0 0

15683/0x904f4: open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab3/scr/child\0", 0x0, 0x0)      = 4 0

15683/0x904f4: mmap(0x0, 0x8270, 0x1, 0x40002, 0x4, 0x0)      = 0x103C86000 0

15683/0x904f4: fcntl(0x4, 0x32, 0x7FF7BC284AF0)      = 0 0

15683/0x904f4: close(0x4)          = 0 0

15683/0x904f4: munmap(0x103C86000, 0x8270)      = 0 0

15683/0x904f4: stat64("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab3/scr/child\0", 0x7FF7BC284F40, 0x0)      = 0 0

15683/0x904f4: stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7BC283F50, 0x0)      = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libSystem.B.dylib\0", 0x7FF7BC283F00, 0x0)      = -1 2

15683/0x904f4: stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7BC283F50, 0x0)      = -1 2

15683/0x904f4: stat64("/usr/lib/libobjc.A.dylib\0", 0x7FF7BC281BA0, 0x0)      = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libobjc.A.dylib\0", 0x7FF7BC281B50, 0x0)      = -1 2

15683/0x904f4: stat64("/usr/lib/libobjc.A.dylib\0", 0x7FF7BC281BA0, 0x0)      = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_blocks.dylib\0", 0x7FF7BC281BA0, 0x0)      = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_blocks.dylib\0", 0x7FF7BC281B40, 0x0)      = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_blocks.dylib\0", 0x7FF7BC281BA0, 0x0)      = -1 2

15683/0x904f4: stat64("/usr/lib/system/libxpc.dylib\0", 0x7FF7BC281BA0, 0x0)      = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libxpc.dylib\0", 0x7FF7BC281B50, 0x0)      = -1 2

15683/0x904f4: stat64("/usr/lib/system/libxpc.dylib\0", 0x7FF7BC281BA0, 0x0)      = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_trace.dylib\0", 0x7FF7BC281BA0, 0x0)      = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_trace.dylib\0", 0x7FF7BC281B40, 0x0)      = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_trace.dylib\0", 0x7FF7BC281BA0, 0x0)      = -1 2

15683/0x904f4: stat64("/usr/lib/system/libcorecrypto.dylib\0", 0x7FF7BC281BA0, 0x0)      = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libcorecrypto.dylib\0", 0x7FF7BC281B50, 0x0)      = -1 2

15683/0x904f4: stat64("/usr/lib/system/libcorecrypto.dylib\0", 0x7FF7BC281BA0, 0x0)      = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_malloc.dylib\0", 0x7FF7BC281BA0, 0x0)      = -1 2

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15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_malloc.dylib\0", 0x7FF7BC281B40, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_malloc.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libdispatch.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libdispatch.dylib\0", 0x7FF7BC281B50, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libdispatch.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_featureflags.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_featureflags.dylib\0", 0x7FF7BC281B40, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_featureflags.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_c.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_c.dylib\0", 0x7FF7BC281B50, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_c.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/libc++.1.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libc++.1.dylib\0", 0x7FF7BC281B50, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/libc++.1.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/libc++abi.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libc++abi.dylib\0", 0x7FF7BC281B50, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/libc++abi.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libdyld.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libdyld.dylib\0", 0x7FF7BC281B50, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libdyld.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_info.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_info.dylib\0", 0x7FF7BC281B50, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_info.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_darwin.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_darwin.dylib\0", 0x7FF7BC281B40, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_darwin.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_notify.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_notify.dylib\0", 0x7FF7BC281B40, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_notify.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_networkextension.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_networkextension.dylib\0", 0x7FF7BC281B40, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_networkextension.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_asl.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_asl.dylib\0", 0x7FF7BC281B50, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_asl.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_symptoms.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_symptoms.dylib\0", 0x7FF7BC281B40, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_symptoms.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_containermanager.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_containermanager.dylib\0", 0x7FF7BC281B40, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_containermanager.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_configuration.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_configuration.dylib\0", 0x7FF7BC281B40, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_configuration.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_sandbox.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_sandbox.dylib\0", 0x7FF7BC281B40, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_sandbox.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libquarantine.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libquarantine.dylib\0", 0x7FF7BC281B50, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libquarantine.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_coreservices.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_coreservices.dylib\0", 0x7FF7BC281B40, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_coreservices.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_m.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_m.dylib\0", 0x7FF7BC281B50, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_m.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libmacho.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libmacho.dylib\0", 0x7FF7BC281B50, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libmacho.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libcommonCrypto.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libcommonCrypto.dylib\0", 0x7FF7BC281B40, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libcommonCrypto.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libunwind.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libunwind.dylib\0", 0x7FF7BC281B50, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libunwind.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/liboah.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/liboah.dylib\0", 0x7FF7BC281B50, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/liboah.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libcopyfile.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libcopyfile.dylib\0", 0x7FF7BC281B50, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libcopyfile.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libcompiler_rt.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libcompiler_rt.dylib\0", 0x7FF7BC281B50, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libcompiler_rt.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_collections.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_collections.dylib\0", 0x7FF7BC281B40, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_collections.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_secinit.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_secinit.dylib\0", 0x7FF7BC281B40, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_secinit.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libremovefile.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libremovefile.dylib\0", 0x7FF7BC281B50, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libremovefile.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libkeymgr.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libkeymgr.dylib\0", 0x7FF7BC281B50, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libkeymgr.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_dnssd.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_dnssd.dylib\0", 0x7FF7BC281B40, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_dnssd.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libcache.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libcache.dylib\0", 0x7FF7BC281B50, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libcache.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libSystem.B.dylib\0", 0x7FF7BC281B50, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_darwindirectory.dylib\0", 0x7FF7BC281BA0, 0x0) = -1 2

```

15683/0x904f4: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_darwindirectory.dylib\0", 0x7FF7BC281B40, 0x0)    = -1 2

15683/0x904f4: stat64("/usr/lib/system/libsystem_darwindirectory.dylib\0", 0x7FF7BC281BA0, 0x0)    = -1 2

15683/0x904f4: open("/dev/dtracehelper\0", 0x2, 0x0)    = 4 0

15683/0x904f4: ioctl(0x4, 0x80086804, 0x7FF7BC283B38)    = 0 0

15683/0x904f4: close(0x4)    = 0 0

15683/0x904f4: open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab3/scr/child\0", 0x0, 0x0)    = 4 0

15683/0x904f4: __mac_syscall(0x7FF8040EFE3B, 0x2, 0x7FF7BC2830F0)    = 0 0

15683/0x904f4: map_with_linking_np(0x7FF7BC2830A0, 0x1, 0x7FF7BC2830D0)    = -1 22

15683/0x904f4: close(0x4)    = 0 0

15683/0x904f4: mprotect(0x103C7E000, 0x4000, 0x1)    = 0 0

15683/0x904f4: shared_region_check_np(0xFFFFFFFFFFFFFFFF, 0x0, 0x0)    = 0 0

15683/0x904f4: mprotect(0x104200000, 0x40000, 0x1)    = 0 0

15683/0x904f4: access("/AppleInternal/XBS/.isChrooted\0", 0x0, 0x0)    = -1 2

15683/0x904f4: pthread_register(0x7FF8043E2B9C, 0x7FF8043E2B88, 0x2000)    = 1073742303 0

15683/0x904f4: getpid(0x0, 0x0, 0x0)    = 15683 0

15683/0x904f4: shm_open(0x7FF804285F42, 0x0, 0x4284388)    = 4 0

15683/0x904f4: fstat64(0x4, 0x7FF7BC284060, 0x0)    = 0 0

15683/0x904f4: mmap(0x0, 0x4000, 0x1, 0x40001, 0x4, 0x0)    = 0x103C88000 0

15683/0x904f4: close(0x4)    = 0 0

15683/0x904f4: ioctl(0x2, 0x4004667A, 0x7FF7BC284124)    = 0 0

15683/0x904f4: mprotect(0x103C91000, 0x1000, 0x0)    = 0 0

15683/0x904f4: mprotect(0x103C98000, 0x1000, 0x0)    = 0 0

15683/0x904f4: mprotect(0x103C99000, 0x1000, 0x0)    = 0 0

15683/0x904f4: mprotect(0x103CA0000, 0x1000, 0x0)    = 0 0

15683/0x904f4: mprotect(0x103C8C000, 0x98, 0x1)    = 0 0

15683/0x904f4: mprotect(0x103C8C000, 0x98, 0x3)    = 0 0

15683/0x904f4: mprotect(0x103C8C000, 0x98, 0x1)    = 0 0

15683/0x904f4: mprotect(0x103CA1000, 0x1000, 0x1)    = 0 0

15683/0x904f4: mprotect(0x103CA2000, 0x98, 0x1)    = 0 0

15683/0x904f4: mprotect(0x103CA2000, 0x98, 0x3)    = 0 0

15683/0x904f4: mprotect(0x103CA2000, 0x98, 0x1)    = 0 0

15683/0x904f4: mprotect(0x103C8C000, 0x98, 0x3)    = 0 0

```

```

15683/0x904f4: mprotect(0x103C8C000, 0x98, 0x1)          = 0 0

15683/0x904f4: mprotect(0x103CA1000, 0x1000, 0x3)        = 0 0

15683/0x904f4: mprotect(0x103CA1000, 0x1000, 0x1)        = 0 0

15683/0x904f4: mprotect(0x104200000, 0x40000, 0x3)       = 0 0

15683/0x904f4: mprotect(0x104200000, 0x40000, 0x1)       = 0 0

15683/0x904f4: issetugid(0x0, 0x0, 0x0)                 = 0 0

15683/0x904f4: mprotect(0x104200000, 0x40000, 0x3)       = 0 0

15683/0x904f4: getentropy(0x7FF7BC283950, 0x20, 0x0)     = 0 0

15683/0x904f4: mprotect(0x104200000, 0x40000, 0x1)       = 0 0

15683/0x904f4: mprotect(0x104200000, 0x40000, 0x3)       = 0 0

15683/0x904f4: mprotect(0x104200000, 0x40000, 0x1)       = 0 0

15683/0x904f4: getattrlist("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab3/scr/child\0", 0x7FF7BC284000, 0x7FF7BC284018) = 0 0

15683/0x904f4: access("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab3/scr\0", 0x4, 0x0)                = 0 0

15683/0x904f4: open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab3/scr\0", 0x0, 0x0)                = 4 0

15683/0x904f4: fstat64(0x4, 0x7F9BC8704530, 0x0)          = 0 0

15683/0x904f4: csctl(0x0, 0x7FF7BC28425C, 0x4)            = -1 1

15683/0x904f4: fgetattrlist(0x4, 0x7FF7BC284270, 0x7FF7BC284290) = 0 0

15683/0x904f4: __mac_syscall(0x7FF80F7A36A4, 0x2, 0x7FF7BC284290) = 0 0

15683/0x904f4: fcntl(0x4, 0x32, 0x7FF7BC283F10)           = 0 0

15683/0x904f4: close(0x4)                                  = 0 0

15683/0x904f4: open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab3/scr/Info.plist\0", 0x0, 0x0)        = -1 2

15683/0x904f4: proc_info(0x2, 0x3D43, 0xD)                = 64 0

15683/0x904f4: csops_audittoken(0x3D43, 0x10, 0x7FF7BC284260) = -1 22

dtrace: error on enabled probe ID 1741 (ID 573: syscall::syscall:return): invalid kernel access in action #11 at DIF offset 28

dtrace: error on enabled probe ID 1741 (ID 573: syscall::syscall:return): invalid kernel access in action #11 at DIF offset 28

15683/0x904f4: csops(0x3D43, 0x0, 0x7FF7BC2846C4)          = 0 0

15683/0x904f4: mprotect(0x104200000, 0x40000, 0x3)        = 0 0

15683/0x904f4: shm_open(0x103C7DEF8, 0x202, 0x180)         = 4 0

15683/0x904f4: fstat64(0x0, 0x7FF7BC2856B8, 0x0)          = 0 0

15683/0x904f4: ftruncate(0x4, 0x29, 0x0)                   = -1 22

15683/0x904f4: writev_nocancel(0x2, 0x7FF7BC284E20, 0x4)   = 56 0

15683/0x904f4: shm_unlink(0x103C7DEF8, 0x0, 0x0)          = 0 0

```



```

15683/0x904f4: close(0x4)          = 0 0

15678/0x9045d: wait4(0xFFFFFFFFFFFFFFFF, 0x0, 0x0)      = 15683 0

15678/0x9045d: shm_open(0x105DEFF38, 0x0, 0x180)       = -1 2

15678/0x9045d: writev_nocancel(0x2, 0x7FF7BA112E00, 0x4) = 57 0

```

Lab4

mishazhadnov@McB-airmi build % sudo dtruss ./prog_d

dtrace: system integrity protection is on, some features will not be available

```

SYSCALL(args)      = return

munmap(0x1118BC000, 0xA0000)      = 0 0

munmap(0x11195C000, 0x8000)      = 0 0

munmap(0x111964000, 0x4000)      = 0 0

munmap(0x111968000, 0x4000)      = 0 0

munmap(0x11196C000, 0x58000)      = 0 0

open("./0", 0x100000, 0x0)        = 3 0

fcntl(0x3, 0x32, 0x7FF7B253B290) = 0 0

close(0x3)                = 0 0

fsgetpath(0x7FF7B253B2A0, 0x400, 0x7FF7B253B288) = 64 0

fsgetpath(0x7FF7B253B2A0, 0x400, 0x7FF7B253B288) = 14 0

csctl(0x0, 0x7FF7B253B6AC, 0x4)   = -1 1

```

Select the number of command:

0) Change contract

1) Call 'float SinIntegral(float A, float B, float e)'

2) Call 'void Sort(int* arr, int n)'

```

__mac_syscall(0x7FF815B08E3B, 0x2, 0x7FF7B253B510) = 0 0

csctl(0x0, 0x7FF7B253B6BC, 0x4)   = -1 1

__mac_syscall(0x7FF815B05DC6, 0x5A, 0x7FF7B253B650) = 0 0

```

dtrace: error on enabled probe ID 1741 (ID 573: syscall::syscall:return): invalid kernel access in action #10 at DIF offset 28

dtrace: error on enabled probe ID 1741 (ID 573: syscall::syscall:return): invalid kernel access in action #10 at DIF offset 28

dtrace: error on enabled probe ID 1741 (ID 573: syscall::syscall:return): invalid kernel access in action #10 at DIF offset 28

dtrace: error on enabled probe ID 1741 (ID 573: syscall::syscall:return): invalid kernel access in action #10 at DIF offset 28

```

open("/^0", 0x20100000, 0x0)          = 3 0

openat(0x3, "System/Cryptexes/OS\0", 0x100000, 0x0)      = 4 0

dup(0x4, 0x0, 0x0)                    = 5 0

fstatat64(0x4, 0x7FF7B253A3F1, 0x7FF7B253A7F0)          = 0 0

openat(0x4, "System/Library/dyld/^0", 0x100000, 0x0)     = 6 0

fcntl(0x6, 0x32, 0x7FF7B253A480)                = 0 0

dup(0x6, 0x0, 0x0)                    = 7 0

dup(0x5, 0x0, 0x0)                    = 8 0

close(0x3)                                = 0 0

close(0x5)                                = 0 0

close(0x4)                                = 0 0

close(0x6)                                = 0 0

shared_region_check_np(0x7FF7B253AD68, 0x0, 0x0)        = 0 0

fsgetpath(0x7FF7B253B2D0, 0x400, 0x7FF7B253B208)        = 83 0

fcntl(0x8, 0x32, 0x7FF7B253B2D0)                = 0 0

close(0x8)                                = 0 0

close(0x7)                                = 0 0

getfsstat64(0x0, 0x0, 0x2)                = 7 0

getfsstat64(0x10DF02AA0, 0x3B48, 0x2)          = 7 0

getattrlist("/^0", 0x7FF7B253B210, 0x7FF7B253B180)      = 0 0

stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/dyld/dyld_shared_cache_x86_64h\0", 0x7FF7B253B548, 0x0) = 0 0

dtrace: error on enabled probe ID 1690 (ID 845: syscall::stat64:return): invalid address (0x0) in action #11 at DIF offset 12

stat64("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab4/src/build/prog_d\0", 0x7FF7B253A9E0, 0x0)        = 0 0

open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab4/src/build/prog_d\0", 0x0, 0x0)          = 3 0

mmap(0x0, 0xC4A8, 0x1, 0x40002, 0x3, 0x0)          = 0x10D9D4000 0

fcntl(0x3, 0x32, 0x7FF7B253AAF0)                = 0 0

close(0x3)                                = 0 0

munmap(0x10D9D4000, 0xC4A8)                    = 0 0

stat64("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab4/src/build/prog_d\0", 0x7FF7B253AF40, 0x0)        = 0 0

stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7B2539F50, 0x0)      = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libSystem.B.dylib\0", 0x7FF7B2539F00, 0x0)      = -1 2

stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7B2539F50, 0x0)      = -1 2

```

stat64("/usr/lib/libobjc.A.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libobjc.A.dylib\0", 0x7FF7B2537B50, 0x0) = -1 2

stat64("/usr/lib/libobjc.A.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_blocks.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_blocks.dylib\0", 0x7FF7B2537B40, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_blocks.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/system/libxpc.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libxpc.dylib\0", 0x7FF7B2537B50, 0x0) = -1 2

stat64("/usr/lib/system/libxpc.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_trace.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_trace.dylib\0", 0x7FF7B2537B40, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_trace.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/system/libcorecrypto.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libcorecrypto.dylib\0", 0x7FF7B2537B50, 0x0) = -1 2

stat64("/usr/lib/system/libcorecrypto.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_malloc.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_malloc.dylib\0", 0x7FF7B2537B40, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_malloc.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/system/libdispatch.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libdispatch.dylib\0", 0x7FF7B2537B50, 0x0) = -1 2

stat64("/usr/lib/system/libdispatch.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_featureflags.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_featureflags.dylib\0", 0x7FF7B2537B40, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_featureflags.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_c.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_c.dylib\0", 0x7FF7B2537B50, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_c.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/libc++.1.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libc++.1.dylib\0", 0x7FF7B2537B50, 0x0) = -1 2

stat64("/usr/lib/libc++.1.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/libc++abi.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libc++abi.dylib\0", 0x7FF7B2537B50, 0x0) = -1 2

stat64("/usr/lib/libc++abi.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/system/libdyld.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libdyld.dylib\0", 0x7FF7B2537B50, 0x0) = -1 2

stat64("/usr/lib/system/libdyld.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_info.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_info.dylib\0", 0x7FF7B2537B50, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_info.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_darwin.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_darwin.dylib\0", 0x7FF7B2537B40, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_darwin.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_notify.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_notify.dylib\0", 0x7FF7B2537B40, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_notify.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_networkextension.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_networkextension.dylib\0", 0x7FF7B2537B40, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_networkextension.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_asl.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_asl.dylib\0", 0x7FF7B2537B50, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_asl.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_symptoms.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_symptoms.dylib\0", 0x7FF7B2537B40, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_symptoms.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_containermanager.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_containermanager.dylib\0", 0x7FF7B2537B40, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_containermanager.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_configuration.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_configuration.dylib\0", 0x7FF7B2537B40, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_configuration.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_sandbox.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_sandbox.dylib\0", 0x7FF7B2537B40, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_sandbox.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/system/libquarantine.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libquarantine.dylib\0", 0x7FF7B2537B50, 0x0) = -1 2

stat64("/usr/lib/system/libquarantine.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_coreservices.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_coreservices.dylib\0", 0x7FF7B2537B40, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_coreservices.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_m.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_m.dylib\0", 0x7FF7B2537B50, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_m.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/system/libmacho.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libmacho.dylib\0", 0x7FF7B2537B50, 0x0) = -1 2

stat64("/usr/lib/system/libmacho.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/system/libcommonCrypto.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libcommonCrypto.dylib\0", 0x7FF7B2537B40, 0x0) = -1 2

stat64("/usr/lib/system/libcommonCrypto.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/system/libunwind.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libunwind.dylib\0", 0x7FF7B2537B50, 0x0) = -1 2

stat64("/usr/lib/system/libunwind.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/liboah.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/liboah.dylib\0", 0x7FF7B2537B50, 0x0) = -1 2

stat64("/usr/lib/liboah.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/system/libcopyfile.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libcopyfile.dylib\0", 0x7FF7B2537B50, 0x0) = -1 2

stat64("/usr/lib/system/libcopyfile.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/system/libcompiler_rt.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libcompiler_rt.dylib\0", 0x7FF7B2537B50, 0x0) = -1 2

stat64("/usr/lib/system/libcompiler_rt.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_collections.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_collections.dylib\0", 0x7FF7B2537B40, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_collections.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_secinit.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_secinit.dylib\0", 0x7FF7B2537B40, 0x0) = -1 2

stat64("/usr/lib/system/libsystem_secinit.dylib\0", 0x7FF7B2537BA0, 0x0) = -1 2

```

stat64("/usr/lib/system/libremovefile.dylib\0", 0x7FF7B2537BA0, 0x0)      = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libremovefile.dylib\0", 0x7FF7B2537B50, 0x0)      = -1 2

stat64("/usr/lib/system/libremovefile.dylib\0", 0x7FF7B2537BA0, 0x0)      = -1 2

stat64("/usr/lib/system/libkeymgr.dylib\0", 0x7FF7B2537BA0, 0x0)          = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libkeymgr.dylib\0", 0x7FF7B2537B50, 0x0)      = -1 2

stat64("/usr/lib/system/libkeymgr.dylib\0", 0x7FF7B2537BA0, 0x0)          = -1 2

stat64("/usr/lib/system/libsystem_dnssd.dylib\0", 0x7FF7B2537BA0, 0x0)    = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_dnssd.dylib\0", 0x7FF7B2537B40, 0x0)    = -1 2

stat64("/usr/lib/system/libsystem_dnssd.dylib\0", 0x7FF7B2537BA0, 0x0)    = -1 2

stat64("/usr/lib/system/libcache.dylib\0", 0x7FF7B2537BA0, 0x0)          = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libcache.dylib\0", 0x7FF7B2537B50, 0x0)      = -1 2

stat64("/usr/lib/system/libcache.dylib\0", 0x7FF7B2537BA0, 0x0)          = -1 2

stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7B2537BA0, 0x0)              = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libSystem.B.dylib\0", 0x7FF7B2537B50, 0x0)      = -1 2

stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7B2537BA0, 0x0)              = -1 2

stat64("/usr/lib/system/libsystem_darwindirectory.dylib\0", 0x7FF7B2537BA0, 0x0)      = -1 2

stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_darwindirectory.dylib\0", 0x7FF7B2537B40, 0x0)    = -1 2

stat64("/usr/lib/system/libsystem_darwindirectory.dylib\0", 0x7FF7B2537BA0, 0x0)      = -1 2

open("/dev/dtracehelper\0", 0x2, 0x0)      = 3 0

ioctl(0x3, 0x80086804, 0x7FF7B2539B38)      = 0 0

close(0x3)      = 0 0

open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab4/src/build/prog_d\0", 0x0, 0x0)      = 3 0

__mac_syscall(0x7FF815B08E3B, 0x2, 0x7FF7B25390F0)      = 0 0

map_with_linking_np(0x7FF7B2539090, 0x1, 0x7FF7B25390C0)      = -1 22

close(0x3)      = 0 0

mprotect(0x10D9C8000, 0x4000, 0x1)      = 0 0

shared_region_check_np(0xFFFFFFFFFFFFFFFF, 0x0, 0x0)      = 0 0

mprotect(0x10DF00000, 0x40000, 0x1)      = 0 0

access("/AppleInternal/XBS/.isChrooted\0", 0x0, 0x0)      = -1 2

bsdthread_register(0x7FF815DFBB9C, 0x7FF815DFBB88, 0x2000)      = 1073742303 0

getpid(0x0, 0x0, 0x0)      = 53765 0

shm_open(0x7FF815C9EF42, 0x0, 0x15C9D388)      = 3 0

```

```

fstat64(0x3, 0x7FF7B253A060, 0x0)          = 0 0

mmap(0x0, 0x4000, 0x1, 0x40001, 0x3, 0x0)    = 0x10D9D6000 0

close(0x3)                                = 0 0

ioctl(0x2, 0x4004667A, 0x7FF7B253A124)      = 0 0

mprotect(0x10D9DF000, 0x1000, 0x0)          = 0 0

mprotect(0x10D9E6000, 0x1000, 0x0)          = 0 0

mprotect(0x10D9E7000, 0x1000, 0x0)          = 0 0

mprotect(0x10D9EE000, 0x1000, 0x0)          = 0 0

mprotect(0x10D9DA000, 0x98, 0x1)            = 0 0

mprotect(0x10D9DA000, 0x98, 0x3)            = 0 0

mprotect(0x10D9DA000, 0x98, 0x1)            = 0 0

mprotect(0x10D9EF000, 0x1000, 0x1)          = 0 0

mprotect(0x10D9F0000, 0x98, 0x1)            = 0 0

mprotect(0x10D9F0000, 0x98, 0x3)            = 0 0

mprotect(0x10D9F0000, 0x98, 0x1)            = 0 0

mprotect(0x10D9DA000, 0x98, 0x3)            = 0 0

mprotect(0x10D9DA000, 0x98, 0x1)            = 0 0

mprotect(0x10D9EF000, 0x1000, 0x3)          = 0 0

mprotect(0x10D9EF000, 0x1000, 0x1)          = 0 0

mprotect(0x10DF00000, 0x40000, 0x3)          = 0 0

mprotect(0x10DF00000, 0x40000, 0x1)          = 0 0

issetugid(0x0, 0x0, 0x0)                  = 0 0

mprotect(0x10DF00000, 0x40000, 0x3)          = 0 0

getentropy(0x7FF7B2539950, 0x20, 0x0)      = 0 0

mprotect(0x10DF00000, 0x40000, 0x1)          = 0 0

mprotect(0x10DF00000, 0x40000, 0x3)          = 0 0

mprotect(0x10DF00000, 0x40000, 0x1)          = 0 0

getattrlist("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab4/src/build/prog_d\0", 0x7FF7B253A000, 0x7FF7B253A018) = 0 0

access("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab4/src/build\0", 0x4, 0x0)        = 0 0

open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab4/src/build\0", 0x0, 0x0)          = 3 0

fstat64(0x3, 0x7FA0E6F04530, 0x0)          = 0 0

csrctl(0x0, 0x7FF7B253A25C, 0x4)           = -1 1

```

```
fgetatrrlist(0x3, 0x7FF7B253A270, 0x7FF7B253A290)      = 0 0

__mac_syscall(0x7FF8211BC6A4, 0x2, 0x7FF7B253A290)    = 0 0

fcntl(0x3, 0x32, 0x7FF7B2539F10)                    = 0 0

close(0x3)      = 0 0

open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab4/src/build/Info.plist\0", 0x0, 0x0)    = -1 2

proc_info(0x2, 0xD205, 0xD)                          = 64 0

csops_audittoken(0xD205, 0x10, 0x7FF7B253A260)        = -1 22

dtrace: error on enabled probe ID 1741 (ID 573: syscall::syscall:return): invalid kernel access in action #10 at DIF offset 28

dtrace: error on enabled probe ID 1741 (ID 573: syscall::syscall:return): invalid kernel access in action #10 at DIF offset 28

csops(0xD205, 0x0, 0x7FF7B253A6C4)                    = 0 0

mprotect(0x10DF00000, 0x40000, 0x3)                   = 0 0

open("liblib1_d.dylib\0", 0x0, 0x0)                  = 3 0

fcntl(0x3, 0x32, 0x7FF7B253A870)                      = 0 0

close(0x3)      = 0 0

stat64("liblib1_d.dylib\0", 0x7FF7B253A430, 0x0)      = 0 0

stat64("liblib1_d.dylib\0", 0x7FF7B2539E90, 0x0)      = 0 0

open("liblib1_d.dylib\0", 0x0, 0x0)                  = 3 0

mmap(0x0, 0x8108, 0x1, 0x40002, 0x3, 0x0)             = 0x10D9F8000 0

fcntl(0x3, 0x32, 0x7FF7B2539FA0)                      = 0 0

close(0x3)      = 0 0

open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab4/src/build/liblib1_d.dylib\0", 0x0, 0x0)    = 3 0

fcntl(0x3, 0x62, 0x7FF7B2539C78)                      = 0 0

mmap(0x10DA01000, 0x4000, 0x5, 0x40012, 0x3, 0x0)      = 0x10DA01000 0

mmap(0x10DA05000, 0x4000, 0x3, 0x40012, 0x3, 0x4000) = 0x10DA05000 0

mmap(0x10DA09000, 0x4000, 0x1, 0x40012, 0x3, 0x8000) = 0x10DA09000 0

close(0x3)      = 0 0

munmap(0x10D9F8000, 0x8108)                          = 0 0

open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab4/src/build/liblib1_d.dylib\0", 0x0, 0x0)    = 3 0

close(0x3)      = 0 0

mprotect(0x10DA05000, 0x4000, 0x1)                   = 0 0

getrlimit(0x1008, 0x7FF7B253B3F0, 0x0)               = 0 0

fstat64(0x1, 0x7FF7B253B3D8, 0x0)                    = 0 0
```



```

ioctl(0x1, 0x4004667A, 0x7FF7B253B424)      = 0 0

dtrace: error on enabled probe ID 1712 (ID 963: syscall::write_nocancel:return): invalid kernel access in action #12 at DIF offset 68

dtrace: error on enabled probe ID 1712 (ID 963: syscall::write_nocancel:return): invalid kernel access in action #12 at DIF offset 68

dtrace: error on enabled probe ID 1712 (ID 963: syscall::write_nocancel:return): invalid kernel access in action #12 at DIF offset 68

dtrace: error on enabled probe ID 1712 (ID 963: syscall::write_nocancel:return): invalid kernel access in action #12 at DIF offset 68

fstat64(0x0, 0x7FF7B253B578, 0x0)            = 0 0

ioctl(0x0, 0x4004667A, 0x7FF7B253B5C4)      = 0 0

0

Contract has been changed

Contract is second

dtrace: error on enabled probe ID 1714 (ID 961: syscall::read_nocancel:return): invalid kernel access in action #12 at DIF offset 68

munmap(0x10DA01000, 0xC000)                 = 0 0

open("liblib2_d.dylib\0", 0x0, 0x0)        = 3 0

fcntl(0x3, 0x32, 0x7FF7B253A860)           = 0 0

close(0x3)                                = 0 0

stat64("liblib2_d.dylib\0", 0x7FF7B253A420, 0x0) = 0 0

stat64("liblib2_d.dylib\0", 0x7FF7B2539E80, 0x0) = 0 0

open("liblib2_d.dylib\0", 0x0, 0x0)        = 3 0

mmap(0x0, 0x8140, 0x1, 0x40002, 0x3, 0x0)  = 0x10D9F8000 0

fcntl(0x3, 0x32, 0x7FF7B2539F90)           = 0 0

close(0x3)                                = 0 0

open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab4/src/build/liblib2_d.dylib\0", 0x0, 0x0) = 3 0

fcntl(0x3, 0x62, 0x7FF7B2539C68)           = 0 S_labs_3t/lab4/src/build/prog_d0

mmap(0x10DA01000, 0x4000, 0x5, 0x40012, 0x3, 0x0) = 0x10DA01000 0

mmap(0x10DA05000, 0x4000, 0x3, 0x40012, 0x3, 0x4000) = 0x10DA05000 0

mmap(0x10DA09000, 0x4000, 0x1, 0x40012, 0x3, 0x8000) = 0x10DA09000 0

close(0x3)                                = 0 0

munmap(0x10D9F8000, 0x8140)                = 0 0

open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab4/src/build/liblib2_d.dylib\0", 0x0, 0x0) = 3 P♦S♦♦♦0

close(0x3)                                = 0 0

mprotect(0x10DA05000, 0x4000, 0x1)          = 0 0

dtrace: error on enabled probe ID 1712 (ID 963: syscall::write_nocancel:return): invalid kernel access in action #12 at DIF offset 68

```

dtrace: error on enabled probe ID 1712 (ID 963: syscall::write_nocancel:return): invalid kernel access in action #12 at DIF offset 68

1

Type values of A, B and e (with space between): dtrace: error on enabled probe ID 1714 (ID 961: syscall::read_nocancel:return): invalid kernel access in action #12 at DIF offset 68

dtrace: error on enabled probe ID 1712 (ID 963: syscall::write_nocancel:return): invalid kernel access in action #12 at DIF offset 68

0 2 0.1

Result is 1.414966

dtrace: error on enabled probe ID 1714 (ID 961: syscall::read_nocancel:return): invalid kernel access in action #12 at DIF offset 68

dtrace: error on enabled probe ID 1712 (ID 963: syscall::write_nocancel:return): invalid kernel access in action #12 at DIF offset 68

dtrace: error on enabled probe ID 1712 (ID 963: syscall::write_nocancel:return): invalid kernel access in action #12 at DIF offset 68

0

Contract has been changed

Contract is first

dtrace: error on enabled probe ID 1714 (ID 961: syscall::read_nocancel:return): invalid kernel access in action #12 at DIF offset 68

munmap(0x10DA01000, 0xC000) = 0 0

open("liblib1_d.dylib\0", 0x0, 0x0) = 3 0

fctl(0x3, 0x32, 0x7FF7B253A860) = 0 0

close(0x3) = 0 0

stat64("liblib1_d.dylib\0", 0x7FF7B253A420, 0x0) = 0 0

stat64("liblib1_d.dylib\0", 0x7FF7B2539E80, 0x0) = 0 stat640

open("liblib1_d.dylib\0", 0x0, 0x0) = 3 stat640

mmap(0x0, 0x8108, 0x1, 0x40002, 0x3, 0x0) = 0x10D9F8000 0

fctl(0x3, 0x32, 0x7FF7B2539F90) = 0 0

close(0x3) = 0 0

open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab4/src/build/liblib1_d.dylib\0", 0x0, 0x0) = 3 0

fctl(0x3, 0x62, 0x7FF7B2539C68) = 0 0

mmap(0x10DA01000, 0x4000, 0x5, 0x40012, 0x3, 0x0) = 0x10DA01000 0

mmap(0x10DA05000, 0x4000, 0x3, 0x40012, 0x3, 0x4000) = 0x10DA05000 0

mmap(0x10DA09000, 0x4000, 0x1, 0x40012, 0x3, 0x8000) = 0x10DA09000 0

close(0x3) = 0 0

munmap(0x10D9F8000, 0x8108) = 0 Preboot/Cryptexes/OS/usr/lib/system/libsystem_blocks.dylib0

```
open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab4/src/build/liblib1_d.dylib\0", 0x0, 0x0) = 3 0
```

```
close(0x3) = 0 0
```

```
mprotect(0x10DA05000, 0x4000, 0x1) = 0 0
```

```
dtrace: error on enabled probe ID 1712 (ID 963: syscall::write_nocancel:return): invalid kernel access in action #12 at DIF offset 68
```

```
dtrace: error on enabled probe ID 1712 (ID 963: syscall::write_nocancel:return): invalid kernel access in action #12 at DIF offset 68
```

```
1
```

```
Type values of A, B and e (with space between): dtrace: error on enabled probe ID 1714 (ID 961: syscall::read_nocancel:return): invalid kernel access in action #12 at DIF offset 68
```

```
dtrace: error on enabled probe ID 1712 (ID 963: syscall::write_nocancel:return): invalid kernel access in action #12 at DIF offset 68
```

```
0 2 0.1
```

```
Result is 1.369502
```

```
dtrace: error on enabled probe ID 1714 (ID 961: syscall::read_nocancel:return): invalid kernel access in action #12 at DIF offset 68
```

```
dtrace: error on enabled probe ID 1712 (ID 963: syscall::write_nocancel:return): invalid kernel access in action #12 at DIF offset 68
```

```
dtrace: error on enabled probe ID 1712 (ID 963: syscall::write_nocancel:return): invalid kernel access in action #12 at DIF offset 68
```

```
dtrace: error on enabled probe ID 1714 (ID 961: syscall::read_nocancel:return): invalid kernel access in action #12 at DIF offset 68
```

Lab5-7

```
mishazhadnov@McB-airmi build % sudo dtruss -f ./client
```

```
dtrace: system integrity protection is on, some features will not be available
```

```
PID/THRD SYSCALL(args) = return
```

```
84911/0x7129df: fork() = 0 0
```

```
84911/0x7129df: munmap(0x1189CD000, 0xA0000) = 0 0
```

```
84911/0x7129df: munmap(0x118A6D000, 0x8000) = 0 0
```

```
84911/0x7129df: munmap(0x118A75000, 0x4000) = 0 0
```

```
84911/0x7129df: munmap(0x118A79000, 0x4000) = 0 0
```

```
84911/0x7129df: munmap(0x118A7D000, 0x58000) = 0 0
```

```
84911/0x7129df: open("\0", 0x100000, 0x0) = 3 0
```

```
84911/0x7129df: fcntl(0x3, 0x32, 0x7FF7B2EC7280) = 0 0
```

```
84911/0x7129df: close(0x3) = 0 0
```

```
84911/0x7129df: fsgetpath(0x7FF7B2EC7290, 0x400, 0x7FF7B2EC7278) = 62 0
```

```
84911/0x7129df: fsgetpath(0x7FF7B2EC7290, 0x400, 0x7FF7B2EC7278) = 14 0
```

```
84911/0x7129df: csctl(0x0, 0x7FF7B2EC769C, 0x4) = -1 1
```

```

84911/0x7129df: __mac_syscall(0x7FF815B08E3B, 0x2, 0x7FF7B2EC7500)      = 0 0

84911/0x7129df: csctl(0x0, 0x7FF7B2EC76AC, 0x4)                      = -1 1

84911/0x7129df: __mac_syscall(0x7FF815B05DC6, 0x5A, 0x7FF7B2EC7640)    = 0 0

dtrace: error on enabled probe ID 1741 (ID 573: syscall::sysctl:return): invalid kernel access in action #11 at DIF offset 28

dtrace: error on enabled probe ID 1741 (ID 573: syscall::sysctl:return): invalid kernel access in action #11 at DIF offset 28

dtrace: error on enabled probe ID 1741 (ID 573: syscall::sysctl:return): invalid kernel access in action #11 at DIF offset 28

dtrace: error on enabled probe ID 1741 (ID 573: syscall::sysctl:return): invalid kernel access in action #11 at DIF offset 28

84911/0x7129df: open("/^0", 0x20100000, 0x0)                          = 3 0

84911/0x7129df: openat(0x3, "System/Cryptexes/OS/^0", 0x100000, 0x0)    = 4 0

84911/0x7129df: dup(0x4, 0x0, 0x0)                                    = 5 0

84911/0x7129df: fstatat64(0x4, 0x7FF7B2EC63E1, 0x7FF7B2EC67E0)      = 0 0

84911/0x7129df: openat(0x4, "System/Library/dyld/^0", 0x100000, 0x0)    = 6 0

84911/0x7129df: fcntl(0x6, 0x32, 0x7FF7B2EC6470)                    = 0 0

84911/0x7129df: dup(0x6, 0x0, 0x0)                                    = 7 0

84911/0x7129df: dup(0x5, 0x0, 0x0)                                    = 8 0

84911/0x7129df: close(0x3)                                           = 0 0

84911/0x7129df: close(0x5)                                           = 0 0

84911/0x7129df: close(0x4)                                           = 0 0

84911/0x7129df: close(0x6)                                           = 0 0

84911/0x7129df: shared_region_check_np(0x7FF7B2EC6D58, 0x0, 0x0)      = 0 0

84911/0x7129df: fsgetpath(0x7FF7B2EC72C0, 0x400, 0x7FF7B2EC71F8)      = 83 0

84911/0x7129df: fcntl(0x8, 0x32, 0x7FF7B2EC72C0)                    = 0 0

84911/0x7129df: close(0x8)                                           = 0 0

84911/0x7129df: close(0x7)                                           = 0 0

84911/0x7129df: getfsstat64(0x0, 0x0, 0x2)                          = 7 0

84911/0x7129df: getfsstat64(0x10D602AA0, 0x3B48, 0x2)               = 7 0

84911/0x7129df: getattrlist("/^0", 0x7FF7B2EC7200, 0x7FF7B2EC7170)    = 0 0

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/dyld/dyld_shared_cache_x86_64h^0", 0x7FF7B2EC7538, 0x0) = 0 0

dtrace: error on enabled probe ID 1690 (ID 845: syscall::stat64:return): invalid address (0x0) in action #12 at DIF offset 12

84911/0x7129df: stat64("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab5-7/build/client^0", 0x7FF7B2EC69D0, 0x0) = 0 0

84911/0x7129df: open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab5-7/build/client^0", 0x0, 0x0) = 3 0

84911/0x7129df: mmap(0x0, 0x25418, 0x1, 0x40002, 0x3, 0x0)           = 0x10D064000 0

```

84911/0x7129df: fcntl(0x3, 0x32, 0x7FF7B2EC6AE0) = 0 0

84911/0x7129df: close(0x3) = 0 0

84911/0x7129df: munmap(0x10D064000, 0x25418) = 0 0

84911/0x7129df: stat64("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab5-7/build/client/0", 0x7FF7B2EC6F30, 0x0) = 0 0

84911/0x7129df: open("/usr/local/opt/zeromq/lib/libzmq.5.dylib/0", 0x0, 0x0) = 3 0

84911/0x7129df: fcntl(0x3, 0x32, 0x7FF7B2EC6380) = 0 0

84911/0x7129df: close(0x3) = 0 0

84911/0x7129df: stat64("/usr/local/opt/zeromq/lib/libzmq.5.dylib/0", 0x7FF7B2EC5F40, 0x0) = 0 0

84911/0x7129df: stat64("/usr/local/opt/zeromq/lib/libzmq.5.dylib/0", 0x7FF7B2EC59A0, 0x0) = 0 0

84911/0x7129df: open("/usr/local/opt/zeromq/lib/libzmq.5.dylib/0", 0x0, 0x0) = 3 0

84911/0x7129df: mmap(0x0, 0x91C08, 0x1, 0x40002, 0x3, 0x0) = 0x10D064000 0

84911/0x7129df: fcntl(0x3, 0x32, 0x7FF7B2EC5AB0) = 0 0

84911/0x7129df: close(0x3) = 0 0

84911/0x7129df: open("/usr/local/Cellar/zeromq/4.3.5_1/lib/libzmq.5.dylib/0", 0x0, 0x0) = 3 0

84911/0x7129df: fcntl(0x3, 0x62, 0x7FF7B2EC5768) = 0 0

84911/0x7129df: mmap(0x10D501000, 0x54000, 0x5, 0x40012, 0x3, 0x0) = 0x10D501000 0

84911/0x7129df: mmap(0x10D555000, 0x8000, 0x3, 0x40012, 0x3, 0x54000) = 0x10D555000 0

84911/0x7129df: mmap(0x10D55D000, 0x4000, 0x3, 0x40012, 0x3, 0x5C000) = 0x10D55D000 0

84911/0x7129df: mmap(0x10D561000, 0x34000, 0x1, 0x40012, 0x3, 0x60000) = 0x10D561000 0

84911/0x7129df: close(0x3) = 0 0

84911/0x7129df: munmap(0x10D064000, 0x91C08) = 0 0

84911/0x7129df: stat64("/usr/lib/libc++.1.dylib/0", 0x7FF7B2EC5F40, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libc++.1.dylib/0", 0x7FF7B2EC5EF0, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/libc++.1.dylib/0", 0x7FF7B2EC5F40, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/libobjc.A.dylib/0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libobjc.A.dylib/0", 0x7FF7B2EC3B40, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/libobjc.A.dylib/0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_blocks.dylib/0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_blocks.dylib/0", 0x7FF7B2EC3B30, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_blocks.dylib/0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libxpc.dylib/0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libxpc.dylib/0", 0x7FF7B2EC3B40, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libxpc.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_trace.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_trace.dylib\0", 0x7FF7B2EC3B30, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_trace.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libcorecrypto.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libcorecrypto.dylib\0", 0x7FF7B2EC3B40, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libcorecrypto.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_malloc.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_malloc.dylib\0", 0x7FF7B2EC3B30, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_malloc.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libdispatch.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libdispatch.dylib\0", 0x7FF7B2EC3B40, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libdispatch.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_featureflags.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_featureflags.dylib\0", 0x7FF7B2EC3B30, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_featureflags.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_c.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_c.dylib\0", 0x7FF7B2EC3B40, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_c.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/libc++.1.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libc++.1.dylib\0", 0x7FF7B2EC3B40, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/libc++.1.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/libc++abi.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libc++abi.dylib\0", 0x7FF7B2EC3B40, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/libc++abi.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libdyld.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libdyld.dylib\0", 0x7FF7B2EC3B40, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libdyld.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_info.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_info.dylib\0", 0x7FF7B2EC3B40, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_info.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_darwin.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_darwin.dylib\0", 0x7FF7B2EC3B30, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_darwin.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_notify.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_notify.dylib\0", 0x7FF7B2EC3B30, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_notify.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_networkextension.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_networkextension.dylib\0", 0x7FF7B2EC3B30, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_networkextension.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_asl.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_asl.dylib\0", 0x7FF7B2EC3B40, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_asl.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_symptoms.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_symptoms.dylib\0", 0x7FF7B2EC3B30, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_symptoms.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_containermanager.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_containermanager.dylib\0", 0x7FF7B2EC3B30, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_containermanager.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_configuration.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_configuration.dylib\0", 0x7FF7B2EC3B30, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_configuration.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_sandbox.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_sandbox.dylib\0", 0x7FF7B2EC3B30, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_sandbox.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libquarantine.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libquarantine.dylib\0", 0x7FF7B2EC3B40, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libquarantine.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_coreservices.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_coreservices.dylib\0", 0x7FF7B2EC3B30, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_coreservices.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_m.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_m.dylib\0", 0x7FF7B2EC3B40, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_m.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libmacho.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libmacho.dylib\0", 0x7FF7B2EC3B40, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libmacho.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libcommonCrypto.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libcommonCrypto.dylib\0", 0x7FF7B2EC3B30, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libcommonCrypto.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libunwind.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libunwind.dylib\0", 0x7FF7B2EC3B40, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libunwind.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/liboah.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/liboah.dylib\0", 0x7FF7B2EC3B40, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/liboah.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libcopyfile.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libcopyfile.dylib\0", 0x7FF7B2EC3B40, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libcopyfile.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libcompiler_rt.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libcompiler_rt.dylib\0", 0x7FF7B2EC3B40, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libcompiler_rt.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_collections.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_collections.dylib\0", 0x7FF7B2EC3B30, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_collections.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_secinit.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_secinit.dylib\0", 0x7FF7B2EC3B30, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_secinit.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libremovefile.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libremovefile.dylib\0", 0x7FF7B2EC3B40, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libremovefile.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libkeymgr.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libkeymgr.dylib\0", 0x7FF7B2EC3B40, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libcache.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libSystem.B.dylib\0", 0x7FF7B2EC3B40, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_darwindirectory.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_darwindirectory.dylib\0", 0x7FF7B2EC3B30, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/system/libsystem_darwindirectory.dylib\0", 0x7FF7B2EC3B90, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7B2EC5F40, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libSystem.B.dylib\0", 0x7FF7B2EC5EF0, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7B2EC5F40, 0x0) = -1 2

84911/0x7129df: open("/usr/local/opt/libsodium/lib/libsodium.26.dylib\0", 0x0, 0x0) = 3 0

84911/0x7129df: fcntl(0x3, 0x32, 0x7FF7B2EC62A0) = 0 0

84911/0x7129df: close(0x3) = 0 0

84911/0x7129df: stat64("/usr/local/opt/libsodium/lib/libsodium.26.dylib\0", 0x7FF7B2EC5E60, 0x0) = 0 0

84911/0x7129df: stat64("/usr/local/opt/libsodium/lib/libsodium.26.dylib\0", 0x7FF7B2EC58C0, 0x0) = 0 0

84911/0x7129df: open("/usr/local/opt/libsodium/lib/libsodium.26.dylib\0", 0x0, 0x0) = 3 0

84911/0x7129df: mmap(0x0, 0x76C48, 0x1, 0x40002, 0x3, 0x0) = 0x10D064000 0

84911/0x7129df: fcntl(0x3, 0x32, 0x7FF7B2EC59D0) = 0 0

84911/0x7129df: close(0x3) = 0 0

84911/0x7129df: open("/usr/local/Cellar/libsodium/1.0.19/lib/libsodium.26.dylib\0", 0x0, 0x0) = 3 0

84911/0x7129df: fcntl(0x3, 0x62, 0x7FF7B2EC5688) = 0 0

84911/0x7129df: mmap(0x10D641000, 0x60000, 0x5, 0x40012, 0x3, 0x0) = 0x10D641000 0

84911/0x7129df: mmap(0x10D6A1000, 0x4000, 0x3, 0x40012, 0x3, 0x60000) = 0x10D6A1000 0

84911/0x7129df: mmap(0x10D6A5000, 0x4000, 0x3, 0x40012, 0x3, 0x64000) = 0x10D6A5000 0

84911/0x7129df: mmap(0x10D6A9000, 0x10000, 0x1, 0x40012, 0x3, 0x68000) = 0x10D6A9000 0

84911/0x7129df: close(0x3) = 0 0

84911/0x7129df: munmap(0x10D064000, 0x76C48) = 0 0

84911/0x7129df: stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7B2EC5E60, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libSystem.B.dylib\0", 0x7FF7B2EC5E10, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7B2EC5E60, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/libc++.1.dylib\0", 0x7FF7B2EC5E60, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libc++.1.dylib\0", 0x7FF7B2EC5E10, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/libc++.1.dylib\0", 0x7FF7B2EC5E60, 0x0) = -1 2

84911/0x7129df: stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7B2EC5D80, 0x0) = -1 2

84911/0x7129df: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libSystem.B.dylib\0", 0x7FF7B2EC5D30, 0x0) = -1 2

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84911/0x7129df: stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7B2EC5D80, 0x0)      = -1 2

84911/0x7129df: open("/dev/dtracehelper\0", 0x2, 0x0)      = 3 0

84911/0x7129df: ioctl(0x3, 0x80086804, 0x7FF7B2EC5A78)      = 0 0

84911/0x7129df: close(0x3)      = 0 0

84911/0x7129df: open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab5-7/build/client\0", 0x0, 0x0)      = 3 0

84911/0x7129df: __mac_syscall(0x7FF815B08E3B, 0x2, 0x7FF7B2EC50C0)      = 0 0

84911/0x7129df: map_with_linking_np(0x7FF7B2EC4B50, 0x1, 0x7FF7B2EC4B80)      = -1 22

84911/0x7129df: close(0x3)      = 0 0

84911/0x7129df: mprotect(0x10D048000, 0x4000, 0x1)      = 0 0

84911/0x7129df: mprotect(0x10D555000, 0x8000, 0x1)      = 0 0

84911/0x7129df: open("/usr/local/Cellar/libsodium/1.0.19/lib/libsodium.26.dylib\0", 0x0, 0x0)      = 3 0

84911/0x7129df: __mac_syscall(0x7FF815B08E3B, 0x2, 0x7FF7B2EC50C0)      = 0 0

84911/0x7129df: map_with_linking_np(0x7FF7B2EC4F80, 0x1, 0x7FF7B2EC4FB0)      = -1 22

84911/0x7129df: close(0x3)      = 0 0

84911/0x7129df: mprotect(0x10D6A1000, 0x4000, 0x1)      = 0 0

84911/0x7129df: shared_region_check_np(0xFFFFFFFFFFFFFFFF, 0x0, 0x0)      = 0 0

84911/0x7129df: mprotect(0x10D600000, 0x40000, 0x1)      = 0 0

84911/0x7129df: access("/AppleInternal/XBS/.isChrooted\0", 0x0, 0x0)      = -1 2

84911/0x7129df: bsdthread_register(0x7FF815DFBB9C, 0x7FF815DFBB88, 0x2000)      = 1073742303 0

84911/0x7129df: getpid(0x0, 0x0, 0x0)      = 84911 0

84911/0x7129df: shm_open(0x7FF815C9EF42, 0x0, 0x15C9D388)      = 3 0

84911/0x7129df: fstat64(0x3, 0x7FF7B2EC6030, 0x0)      = 0 0

84911/0x7129df: mmap(0x0, 0x4000, 0x1, 0x40001, 0x3, 0x0)      = 0x10D066000 0

84911/0x7129df: close(0x3)      = 0 0

84911/0x7129df: ioctl(0x2, 0x4004667A, 0x7FF7B2EC60F4)      = 0 0

84911/0x7129df: mprotect(0x10D06F000, 0x1000, 0x0)      = 0 0

84911/0x7129df: mprotect(0x10D076000, 0x1000, 0x0)      = 0 0

84911/0x7129df: mprotect(0x10D077000, 0x1000, 0x0)      = 0 0

84911/0x7129df: mprotect(0x10D07E000, 0x1000, 0x0)      = 0 0

84911/0x7129df: mprotect(0x10D06A000, 0x98, 0x1)      = 0 0

84911/0x7129df: mprotect(0x10D06A000, 0x98, 0x3)      = 0 0

84911/0x7129df: mprotect(0x10D06A000, 0x98, 0x1)      = 0 0

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84911/0x7129df: mprotect(0x10D07F000, 0x1000, 0x1)      = 0 0

84911/0x7129df: mprotect(0x10D080000, 0x98, 0x1)       = 0 0

84911/0x7129df: mprotect(0x10D080000, 0x98, 0x3)       = 0 0

84911/0x7129df: mprotect(0x10D080000, 0x98, 0x1)       = 0 0

84911/0x7129df: mprotect(0x10D06A000, 0x98, 0x3)       = 0 0

84911/0x7129df: mprotect(0x10D06A000, 0x98, 0x1)       = 0 0

84911/0x7129df: mprotect(0x10D07F000, 0x1000, 0x3)     = 0 0

84911/0x7129df: mprotect(0x10D07F000, 0x1000, 0x1)     = 0 0

84911/0x7129df: mprotect(0x10D600000, 0x40000, 0x3)    = 0 0

84911/0x7129df: mprotect(0x10D600000, 0x40000, 0x1)    = 0 0

84911/0x7129df: issetugid(0x0, 0x0, 0x0)              = 0 0

84911/0x7129df: mprotect(0x10D600000, 0x40000, 0x3)    = 0 0

84911/0x7129df: getentropy(0x7FF7B2EC58C0, 0x20, 0x0)  = 0 0

84911/0x7129df: mprotect(0x10D600000, 0x40000, 0x1)    = 0 0

84911/0x7129df: mprotect(0x10D600000, 0x40000, 0x3)    = 0 0

84911/0x7129df: mprotect(0x10D600000, 0x40000, 0x1)    = 0 0

84911/0x7129df: getattrlist("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab5-7/build/client\0", 0x7FF7B2EC5FD0, 0x7FF7B2EC5FE8) = 0 0

84911/0x7129df: access("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab5-7/build\0", 0x4, 0x0)      = 0 0

84911/0x7129df: open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab5-7/build\0", 0x0, 0x0)      = 3 0

84911/0x7129df: fstat64(0x3, 0x7FE2E77042E0, 0x0)      = 0 0

84911/0x7129df: csrctl(0x0, 0x7FF7B2EC622C, 0x4)        = -1 1

84911/0x7129df: fgetattrlist(0x3, 0x7FF7B2EC6240, 0x7FF7B2EC6260) = 0 0

84911/0x7129df: __mac_syscall(0x7FF8211BC6A4, 0x2, 0x7FF7B2EC6260) = 0 0

84911/0x7129df: fcntl(0x3, 0x32, 0x7FF7B2EC5EE0)        = 0 0

84911/0x7129df: close(0x3)                               = 0 0

84911/0x7129df: open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab5-7/build/Info.plist\0", 0x0, 0x0) = -1 2

84911/0x7129df: proc_info(0x2, 0x14BAF, 0xD)             = 64 0

84911/0x7129df: csops_audittoken(0x14BAF, 0x10, 0x7FF7B2EC6230) = -1 22

dtrace: error on enabled probe ID 1741 (ID 573: syscall::syscall:return): invalid kernel access in action #11 at DIF offset 28

dtrace: error on enabled probe ID 1741 (ID 573: syscall::syscall:return): invalid kernel access in action #11 at DIF offset 28

84911/0x7129df: csops(0x14BAF, 0x0, 0x7FF7B2EC6694)      = 0 0

84911/0x7129df: mprotect(0x10D600000, 0x40000, 0x3)     = 0 0

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84911/0x7129df: socketpair(0x1, 0x1, 0x0)          = 0 0

84911/0x7129df: fcntl(0x3, 0x2, 0x1)              = 0 0

84911/0x7129df: fcntl(0x4, 0x2, 0x1)              = 0 0

84911/0x7129df: fcntl(0x3, 0x3, 0x0)              = 2 0

84911/0x7129df: fcntl(0x3, 0x4, 0x6)              = 0 0

84911/0x7129df: fcntl(0x4, 0x3, 0x0)              = 2 0

84911/0x7129df: fcntl(0x4, 0x4, 0x6)              = 0 0

84911/0x7129df: open("/dev/urandom\0", 0x0, 0x0)   = 5 0

84911/0x7129df: fstat64(0x5, 0x7FF7B2EC7100, 0x0)  = 0 0

84911/0x7129df: fcntl(0x5, 0x1, 0x0)              = 0 0

84911/0x7129df: fcntl(0x5, 0x2, 0x1)              = 0 0

dtrace: error on enabled probe ID 1741 (ID 573: syscall::syscall:return): invalid kernel access in action #11 at DIF offset 28

dtrace: error on enabled probe ID 1713 (ID 175: syscall::read:return): invalid kernel access in action #13 at DIF offset 68

84911/0x7129df: socketpair(0x1, 0x1, 0x0)          = 0 0

84911/0x7129df: fcntl(0x6, 0x2, 0x1)              = 0 0

84911/0x7129df: fcntl(0x7, 0x2, 0x1)              = 0 0

84911/0x7129df: fcntl(0x6, 0x3, 0x0)              = 2 0

84911/0x7129df: fcntl(0x6, 0x4, 0x6)              = 0 0

84911/0x7129df: fcntl(0x7, 0x3, 0x0)              = 2 0

84911/0x7129df: fcntl(0x7, 0x4, 0x6)              = 0 0

84911/0x7129df: kqueue(0x0, 0x0, 0x0)             = 8 0

84911/0x7129df: kevent(0x8, 0x7FF7B2EC7140, 0x1)   = 0 0

84911/0x7129df: bsdtthread_create(0x10D536590, 0x600000E04040, 0x700003AC3000) = 61616128 0

84911/0x7129e8: fork()                             = 0 0

84911/0x7129e8: thread_selfid(0x0, 0x0, 0x0)       = 7416296 0

84911/0x7129df: socketpair(0x1, 0x1, 0x0)          = 0 0

84911/0x7129df: fcntl(0x9, 0x2, 0x1)              = 0 0

84911/0x7129e8: __pthread_sigmask(0x1, 0x700003AC2F94, 0x0) = 0 0

84911/0x7129df: fcntl(0xA, 0x2, 0x1)              = 0 0

84911/0x7129df: fcntl(0x9, 0x3, 0x0)              = 2 0

84911/0x7129e8: proc_info(0x5, 0x14BAF, 0x2)       = 0 0

84911/0x7129df: fcntl(0x9, 0x4, 0x6)              = 0 0

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84911/0x7129df: fcntl(0xA, 0x3, 0x0)      = 2 0

84911/0x7129df: fcntl(0xA, 0x4, 0x6)      = 0 0

84911/0x7129df: kqueue(0x0, 0x0, 0x0)     = 11 0

84911/0x7129df: kevent(0xB, 0x7FF7B2EC7140, 0x1) = 0 0

84911/0x7129df: bsdtthread_create(0x10D536590, 0x600000E04100, 0x700003B46000) = 62152704 0

84911/0x7129e9: fork()                   = 0 0

84911/0x7129e9: thread_selfid(0x0, 0x0, 0x0)      = 7416297 0

84911/0x7129e9: __pthread_sigmask(0x1, 0x700003B45F94, 0x0) = 0 0

84911/0x7129df: socketpair(0x1, 0x1, 0x0)      = 0 0

84911/0x7129e9: proc_info(0x5, 0x14BAF, 0x2)       = 0 0

84911/0x7129df: fcntl(0xC, 0x2, 0x1)           = 0 0

84911/0x7129df: fcntl(0xD, 0x2, 0x1)           = 0 0

84911/0x7129df: fcntl(0xC, 0x3, 0x0)           = 2 0

84911/0x7129df: fcntl(0xC, 0x4, 0x6)           = 0 0

84911/0x7129df: fcntl(0xD, 0x3, 0x0)           = 2 0

84911/0x7129df: fcntl(0xD, 0x4, 0x6)           = 0 0

84911/0x7129df: socketpair(0x1, 0x1, 0x0)      = 0 0

84911/0x7129df: fcntl(0xE, 0x2, 0x1)           = 0 0

84911/0x7129df: fcntl(0xF, 0x2, 0x1)           = 0 0

84911/0x7129df: fcntl(0xE, 0x3, 0x0)           = 2 0

84911/0x7129df: fcntl(0xE, 0x4, 0x6)           = 0 0

84911/0x7129df: fcntl(0xF, 0x3, 0x0)           = 2 0

84911/0x7129df: fcntl(0xF, 0x4, 0x6)           = 0 0

84911/0x7129df: socketpair(0x1, 0x1, 0x0)      = 0 0

84911/0x7129df: fcntl(0x10, 0x2, 0x1)          = 0 0

84911/0x7129df: fcntl(0x11, 0x2, 0x1)          = 0 0

84911/0x7129df: fcntl(0x10, 0x3, 0x0)          = 2 0

84911/0x7129df: fcntl(0x10, 0x4, 0x6)          = 0 0

84911/0x7129df: fcntl(0x11, 0x3, 0x0)          = 2 0

84911/0x7129df: fcntl(0x11, 0x4, 0x6)          = 0 0

84911/0x7129df: getrlimit(0x1008, 0x7FF7B2EC7000, 0x0) = 0 0

84911/0x7129df: fstat64(0x0, 0x7FF7B2EC6FE8, 0x0) = 0 0

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84911/0x7129df: ioctl(0x0, 0x4004667A, 0x7FF7B2EC7034)      = 0 0

create 13

OK: 84926

dtrace: error on enabled probe ID 1714 (ID 961: syscall::read_nocancel:return): invalid kernel access in action #13 at DIF offset 68

84911/0x7129df: poll(0x7FF7B2EC6AE0, 0x1, 0x0)             = 0 0

dtrace: error on enabled probe ID 1741 (ID 573: syscall::sysctl:return): invalid kernel access in action #11 at DIF offset 28

dtrace: error on enabled probe ID 1741 (ID 573: syscall::sysctl:return): invalid kernel access in action #11 at DIF offset 28

84911/0x7129df: shm_open(0x7FF8194560E0, 0x0, 0x0)          = 18 0

84911/0x7129df: mmap(0x0, 0x1000, 0x1, 0x40001, 0x12, 0x0)  = 0x10D088000 0

84911/0x7129df: close_nocancel(0x12)                       = 0 0

84911/0x7129df: socket(0x2, 0x1, 0x6)                      = 18 0

84911/0x7129df: fcntl(0x12, 0x2, 0x1)                      = 0 0

84911/0x7129df: setsockopt(0x12, 0xFFFF, 0x1022)          = 0 0

84911/0x7129df: fcntl(0x12, 0x2, 0x1)                      = 0 0

84911/0x7129df: setsockopt(0x12, 0xFFFF, 0x4)              = 0 0

84911/0x7129df: bind(0x12, 0x7FE2E7808CC0, 0x10)           = 0 0

84911/0x7129df: listen(0x12, 0x64, 0x0)                   = 0 0

84911/0x7129df: getsockname(0x12, 0x7FF7B2EC6AE8, 0x7FF7B2EC6A8C) = 0 0

84911/0x7129df: getsockname(0x12, 0x7FF7B2EC6B28, 0x7FF7B2EC6ACC) = 0 0

84911/0x7129df: sendto(0x9, 0x7FF7B2EC6A97, 0x1)          = 1 0

84911/0x7129df: sendto(0xC, 0x7FF7B2EC6A97, 0x1)          = 1 0

84911/0x7129e9: kevent(0xB, 0x0, 0x0)                     = 1 0

84911/0x7129e9: poll(0x700003B43E20, 0x1, 0x0)            = 1 0

84911/0x7129e9: recvfrom(0xA, 0x700003B43E27, 0x1)        = 1 0

84911/0x7129e9: kevent(0xB, 0x700003B43E10, 0x1)          = 0 0

84911/0x7129e9: poll(0x700003B43E20, 0x1, 0x0)            = 0 0

84911/0x7129df: fork()                                     = 84926 0

84926/0x712c6d: fork()                                     = 0 0

84926/0x712c6d: thread_selfid(0x0, 0x0, 0x0)              = 7416941 sodium.26.dylib0

84926/0x712c6d: bsdthread_register(0x7FF815DFBB9C, 0x7FF815DFBB88, 0x2000) = -1 22

84926/0x712c6d: mprotect(0x10D080000, 0x98, 0x3)          = 0 0

84926/0x712c6d: mprotect(0x10D080000, 0x98, 0x1)          = 0 0

```

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84911/0x7129df: poll(0x7FF7B2EC6FA0, 0x1, 0x0)      = 1 0

84911/0x7129df: recvfrom(0xD, 0x7FF7B2EC6FA7, 0x1)    = 1 0

84911/0x7129df: poll(0x7FF7B2EC6FA0, 0x1, 0x0)      = 0 0

dtrace: error on enabled probe ID 1688 (ID 287: syscall::execve:return): invalid address (0x10d047b89) in action #12 at DIF offset 12

84926/0x712c6e: fork()          = 0 ,b◆◆0

84926/0x712c6e: mprotect(0x1159DC000, 0x8000, 0x1)      = 0 @b◆◆0

84926/0x712c6e: thread_selfid(0x0, 0x0, 0x0)          = 7416942 0

84926/0x712c6e: shared_region_check_np(0x7FF7B9B588D0, 0x0, 0x0)      = 0 20

84926/0x712c6e: thread_selfid(0x0, 0x0, 0x0)          = 7416942 S_labs_3t/lab5-7/build/client0

84926/0x712c6e: getpid(0x0, 0x0, 0x0)                = 84926 lient0

84926/0x712c6e: proc_info(0xF, 0x14BBE, 0x0)          = 0 0

84926/0x712c6e: munmap(0x11593C000, 0xA0000)          = 0 0

84926/0x712c6e: munmap(0x1159DC000, 0x8000)          = 0 0

84926/0x712c6e: munmap(0x1159E4000, 0x4000)          = 0 0

84926/0x712c6e: munmap(0x1159E8000, 0x4000)          = 0 0

84926/0x712c6e: munmap(0x1159EC000, 0x58000)          = 0 0

84926/0x712c6e: open("/0", 0x100000, 0x0)            = 3 0

84926/0x712c6e: fcntl(0x3, 0x32, 0x7FF7B9B58260)      = 0 0

84926/0x712c6e: close(0x3)                          = 0 0

84926/0x712c6e: fsgetpath(0x7FF7B9B58270, 0x400, 0x7FF7B9B58258)    = 62 0

84926/0x712c6e: fsgetpath(0x7FF7B9B58270, 0x400, 0x7FF7B9B58258)    = 14 0

84926/0x712c6e: csctl(0x0, 0x7FF7B9B5867C, 0x4)      = -1 1

84926/0x712c6e: __mac_syscall(0x7FF815B08E3B, 0x2, 0x7FF7B9B584E0)    = 0 0

84926/0x712c6e: csctl(0x0, 0x7FF7B9B5868C, 0x4)      = -1 1

84926/0x712c6e: __mac_syscall(0x7FF815B05DC6, 0x5A, 0x7FF7B9B58620)    = 0 0

dtrace: error on enabled probe ID 1741 (ID 573: syscall::sysctl:return): invalid kernel access in action #11 at DIF offset 28

dtrace: error on enabled probe ID 1741 (ID 573: syscall::sysctl:return): invalid kernel access in action #11 at DIF offset 28

dtrace: error on enabled probe ID 1741 (ID 573: syscall::sysctl:return): invalid kernel access in action #11 at DIF offset 28

dtrace: error on enabled probe ID 1741 (ID 573: syscall::sysctl:return): invalid kernel access in action #11 at DIF offset 28

84926/0x712c6e: open("/0", 0x20100000, 0x0)          = 3 0

84926/0x712c6e: openat(0x3, "System/Cryptexes/OS0", 0x100000, 0x0)    = 4 0

84926/0x712c6e: dup(0x4, 0x0, 0x0)                  = 5 0

```

84926/0x712c6e: fstatat64(0x4, 0x7FF7B9B573C1, 0x7FF7B9B577C0) = 0 0

84926/0x712c6e: openat(0x4, "System/Library/dyld/^0", 0x100000, 0x0) = 6 0

84926/0x712c6e: fcntl(0x6, 0x32, 0x7FF7B9B57450) = 0 0

84926/0x712c6e: dup(0x6, 0x0, 0x0) = 7 0

84926/0x712c6e: dup(0x5, 0x0, 0x0) = 8 0

84926/0x712c6e: close(0x3) = 0 0

84926/0x712c6e: close(0x5) = 0 0

84926/0x712c6e: close(0x4) = 0 0

84926/0x712c6e: close(0x6) = 0 0

84926/0x712c6e: shared_region_check_np(0x7FF7B9B57D38, 0x0, 0x0) = 0 0

84926/0x712c6e: fsgetpath(0x7FF7B9B582A0, 0x400, 0x7FF7B9B581D8) = 83 0

84926/0x712c6e: fcntl(0x8, 0x32, 0x7FF7B9B582A0) = 0 0

84926/0x712c6e: close(0x8) = 0 0

84926/0x712c6e: close(0x7) = 0 0

84926/0x712c6e: getfsstat64(0x0, 0x0, 0x2) = 7 0

84926/0x712c6e: getfsstat64(0x106902AA0, 0x3B48, 0x2) = 7 0

84926/0x712c6e: getatrlist("/^0", 0x7FF7B9B581E0, 0x7FF7B9B58150) = 0 0

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/System/Library/dyld/dyld_shared_cache_x86_64h^0", 0x7FF7B9B58518, 0x0) = 0 0

dtrace: error on enabled probe ID 1690 (ID 845: syscall::stat64:return): invalid address (0x0) in action #12 at DIF offset 12

84926/0x712c6e: stat64("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab5-7/build/server^0", 0x7FF7B9B579B0, 0x0) = 0 0

84926/0x712c6e: open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab5-7/build/server^0", 0x0, 0x0) = 3 0

84926/0x712c6e: mmap(0x0, 0x1E9E8, 0x1, 0x40002, 0x3, 0x0) = 0x1063CB000 0

84926/0x712c6e: fcntl(0x3, 0x32, 0x7FF7B9B57AC0) = 0 0

84926/0x712c6e: close(0x3) = 0 0

84926/0x712c6e: munmap(0x1063CB000, 0x1E9E8) = 0 0

84926/0x712c6e: stat64("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab5-7/build/server^0", 0x7FF7B9B57F10, 0x0) = 0 0

84926/0x712c6e: open("/usr/local/opt/zeromq/lib/libzmq.5.dylib^0", 0x0, 0x0) = 3 0

84926/0x712c6e: fcntl(0x3, 0x32, 0x7FF7B9B57360) = 0 0

84926/0x712c6e: close(0x3) = 0 0

84926/0x712c6e: stat64("/usr/local/opt/zeromq/lib/libzmq.5.dylib^0", 0x7FF7B9B56F20, 0x0) = 0 0

84926/0x712c6e: stat64("/usr/local/opt/zeromq/lib/libzmq.5.dylib^0", 0x7FF7B9B56980, 0x0) = 0 0

84926/0x712c6e: open("/usr/local/opt/zeromq/lib/libzmq.5.dylib^0", 0x0, 0x0) = 3 0

84926/0x712c6e: mmap(0x0, 0x91C08, 0x1, 0x40002, 0x3, 0x0) = 0x106801000 0

84926/0x712c6e: fcntl(0x3, 0x32, 0x7FF7B9B56A90) = 0 0

84926/0x712c6e: close(0x3) = 0 0

84926/0x712c6e: open("/usr/local/Cellar/zeromq/4.3.5_1/lib/libzmq.5.dylib\0", 0x0, 0x0) = 3 0

84926/0x712c6e: fcntl(0x3, 0x62, 0x7FF7B9B56748) = 0 0

84926/0x712c6e: mmap(0x106941000, 0x54000, 0x5, 0x40012, 0x3, 0x0) = 0x106941000 0

84926/0x712c6e: mmap(0x106995000, 0x8000, 0x3, 0x40012, 0x3, 0x54000) = 0x106995000 0

84926/0x712c6e: mmap(0x10699D000, 0x4000, 0x3, 0x40012, 0x3, 0x5C000) = 0x10699D000 0

84926/0x712c6e: mmap(0x1069A1000, 0x34000, 0x1, 0x40012, 0x3, 0x60000) = 0x1069A1000 0

84926/0x712c6e: close(0x3) = 0 0

84926/0x712c6e: munmap(0x106801000, 0x91C08) = 0 0

84926/0x712c6e: stat64("/usr/lib/libc++.1.dylib\0", 0x7FF7B9B56F20, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libc++.1.dylib\0", 0x7FF7B9B56ED0, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/libc++.1.dylib\0", 0x7FF7B9B56F20, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/libobjc.A.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libobjc.A.dylib\0", 0x7FF7B9B54B20, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/libobjc.A.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_blocks.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 close2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_blocks.dylib\0", 0x7FF7B9B54B10, 0x0) = -1
al/opt/zeromq/lib/libzmq.5.dylib2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_blocks.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 al/opt/zeromq/lib/libzmq.5.dylib2

84926/0x712c6e: stat64("/usr/lib/system/libxpc.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 al/opt/zeromq/lib/libzmq.5.dylib2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libxpc.dylib\0", 0x7FF7B9B54B20, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libxpc.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_trace.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_trace.dylib\0", 0x7FF7B9B54B10, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_trace.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libcorecrypto.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libcorecrypto.dylib\0", 0x7FF7B9B54B20, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libcorecrypto.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_malloc.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_malloc.dylib\0", 0x7FF7B9B54B10, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_malloc.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libdispatch.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libdispatch.dylib\0", 0x7FF7B9B54B20, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libdispatch.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_featureflags.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_featureflags.dylib\0", 0x7FF7B9B54B10, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_featureflags.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_c.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_c.dylib\0", 0x7FF7B9B54B20, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_c.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/libc++.1.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libc++.1.dylib\0", 0x7FF7B9B54B20, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/libc++.1.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/libc++abi.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libc++abi.dylib\0", 0x7FF7B9B54B20, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/libc++abi.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libdyld.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libdyld.dylib\0", 0x7FF7B9B54B20, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libdyld.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_info.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_info.dylib\0", 0x7FF7B9B54B20, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_info.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_darwin.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_darwin.dylib\0", 0x7FF7B9B54B10, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_darwin.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_notify.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_notify.dylib\0", 0x7FF7B9B54B10, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_notify.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_networkextension.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_networkextension.dylib\0", 0x7FF7B9B54B10, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_networkextension.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_asl.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_asl.dylib\0", 0x7FF7B9B54B20, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_asl.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_symptoms.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_symptoms.dylib\0", 0x7FF7B9B54B10, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_symptoms.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_containermanager.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_containermanager.dylib\0", 0x7FF7B9B54B10, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_containermanager.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_configuration.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_configuration.dylib\0", 0x7FF7B9B54B10, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_configuration.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_sandbox.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_sandbox.dylib\0", 0x7FF7B9B54B10, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_sandbox.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libquarantine.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libquarantine.dylib\0", 0x7FF7B9B54B20, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libquarantine.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_coreservices.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_coreservices.dylib\0", 0x7FF7B9B54B10, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_coreservices.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_m.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_m.dylib\0", 0x7FF7B9B54B20, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_m.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libmacho.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libmacho.dylib\0", 0x7FF7B9B54B20, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libmacho.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libcommonCrypto.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libcommonCrypto.dylib\0", 0x7FF7B9B54B10, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libcommonCrypto.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libunwind.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libunwind.dylib\0", 0x7FF7B9B54B20, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libunwind.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/liboah.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/liboah.dylib\0", 0x7FF7B9B54B20, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/liboah.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libcopyfile.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libcopyfile.dylib\0", 0x7FF7B9B54B20, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libcopyfile.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libcompiler_rt.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libcompiler_rt.dylib\0", 0x7FF7B9B54B20, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libcompiler_rt.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_collections.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_collections.dylib\0", 0x7FF7B9B54B10, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_collections.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_secinit.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_secinit.dylib\0", 0x7FF7B9B54B10, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_secinit.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libmovefile.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libmovefile.dylib\0", 0x7FF7B9B54B20, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libmovefile.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libkeymgr.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libkeymgr.dylib\0", 0x7FF7B9B54B20, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libkeymgr.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_dnssd.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_dnssd.dylib\0", 0x7FF7B9B54B10, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_dnssd.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libcache.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libcache.dylib\0", 0x7FF7B9B54B20, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libcache.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libSystem.B.dylib\0", 0x7FF7B9B54B20, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libsystem_darwindirectory.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libsystem_darwindirectory.dylib\0", 0x7FF7B9B54B10, 0x0) = -1 2

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84926/0x712c6e: stat64("/usr/lib/system/libsystem_darwindirectory.dylib\0", 0x7FF7B9B54B70, 0x0)      = -1 2

84926/0x712c6e: stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7B9B56F20, 0x0)      = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libSystem.B.dylib\0", 0x7FF7B9B56ED0, 0x0)      = -1 2

84926/0x712c6e: stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7B9B56F20, 0x0)      = -1 2

84926/0x712c6e: open("/usr/local/opt/libsodium/lib/libsodium.26.dylib\0", 0x0, 0x0)      = 3 0

84926/0x712c6e: fcntl(0x3, 0x32, 0x7FF7B9B57280)      = 0 0

84926/0x712c6e: close(0x3)      = 0 0

84926/0x712c6e: stat64("/usr/local/opt/libsodium/lib/libsodium.26.dylib\0", 0x7FF7B9B56E40, 0x0)      = 0 0

84926/0x712c6e: stat64("/usr/local/opt/libsodium/lib/libsodium.26.dylib\0", 0x7FF7B9B568A0, 0x0)      = 0 0

84926/0x712c6e: open("/usr/local/opt/libsodium/lib/libsodium.26.dylib\0", 0x0, 0x0)      = 3 0

84926/0x712c6e: mmap(0x0, 0x76C48, 0x1, 0x40002, 0x3, 0x0)      = 0x106801000 0

84926/0x712c6e: fcntl(0x3, 0x32, 0x7FF7B9B569B0)      = 0 0

84926/0x712c6e: close(0x3)      = 0 0

84926/0x712c6e: open("/usr/local/Cellar/libsodium/1.0.19/lib/libsodium.26.dylib\0", 0x0, 0x0)      = 3 0

84926/0x712c6e: fcntl(0x3, 0x62, 0x7FF7B9B56668)      = 0 0

84926/0x712c6e: mmap(0x106878000, 0x60000, 0x5, 0x40012, 0x3, 0x0)      = 0x106878000 0

84926/0x712c6e: mmap(0x1068D8000, 0x4000, 0x3, 0x40012, 0x3, 0x60000)      = 0x1068D8000 0

84926/0x712c6e: mmap(0x1068DC000, 0x4000, 0x3, 0x40012, 0x3, 0x64000)      = 0x1068DC000 0

84926/0x712c6e: mmap(0x1068E0000, 0x10000, 0x1, 0x40012, 0x3, 0x68000)      = 0x1068E0000 0

84926/0x712c6e: close(0x3)      = 0 0

84926/0x712c6e: munmap(0x106801000, 0x76C48)      = 0 0

84926/0x712c6e: stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7B9B56E40, 0x0)      = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libSystem.B.dylib\0", 0x7FF7B9B56DF0, 0x0)      = -1 2

84926/0x712c6e: stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7B9B56E40, 0x0)      = -1 2

84926/0x712c6e: stat64("/usr/lib/libc++.1.dylib\0", 0x7FF7B9B56E40, 0x0)      = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libc++.1.dylib\0", 0x7FF7B9B56DF0, 0x0)      = -1 @q002

84926/0x712c6e: stat64("/usr/lib/libc++.1.dylib\0", 0x7FF7B9B56E40, 0x0)      = -1 2

84926/0x712c6e: stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7B9B56D60, 0x0)      = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/libSystem.B.dylib\0", 0x7FF7B9B56D10, 0x0)      = -1 2

84926/0x712c6e: stat64("/usr/lib/libSystem.B.dylib\0", 0x7FF7B9B56D60, 0x0)      = -1 2

84926/0x712c6e: open("/dev/dtracehelper\0", 0x2, 0x0)      = 3 0

84926/0x712c6e: ioctl(0x3, 0x80086804, 0x7FF7B9B56A58)      = 0 0

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84926/0x712c6e: close(0x3)          = 0 0

84926/0x712c6e: open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab5-7/build/server\0", 0x0, 0x0)    = 3 0

84926/0x712c6e: __mac_syscall(0x7FF815B08E3B, 0x2, 0x7FF7B9B560A0)      = 0 0

84926/0x712c6e: map_with_linking_np(0x7FF7B9B55B30, 0x1, 0x7FF7B9B55B60)    = -1 22

84926/0x712c6e: close(0x3)          = 0 0

84926/0x712c6e: mprotect(0x1063B3000, 0x4000, 0x1)      = 0 0

84926/0x712c6e: mprotect(0x106995000, 0x8000, 0x1)      = 0 0

84926/0x712c6e: open("/usr/local/Cellar/libsodium/1.0.19/lib/libsodium.26.dylib\0", 0x0, 0x0)    = 3 0

84926/0x712c6e: __mac_syscall(0x7FF815B08E3B, 0x2, 0x7FF7B9B560A0)      = 0 0

84926/0x712c6e: map_with_linking_np(0x7FF7B9B55F60, 0x1, 0x7FF7B9B55F90)    = -1 22

84926/0x712c6e: close(0x3)          = 0 0

84926/0x712c6e: mprotect(0x1068D8000, 0x4000, 0x1)      = 0 0

84926/0x712c6e: shared_region_check_np(0xFFFFFFFFFFFFFFFF, 0x0, 0x0)    = 0 0

84926/0x712c6e: mprotect(0x106900000, 0x40000, 0x1)      = 0 0

84926/0x712c6e: access("/AppleInternal/XBS/.isChrooted\0", 0x0, 0x0)    = -1 2

84926/0x712c6e: pthread_register(0x7FF815DFBB9C, 0x7FF815DFBB88, 0x2000)    = 1073742303 0

84926/0x712c6e: getpid(0x0, 0x0, 0x0)      = 84926 0

84926/0x712c6e: shm_open(0x7FF815C9EF42, 0x0, 0x15C9D388)      = 3 0

84926/0x712c6e: fstat64(0x3, 0x7FF7B9B57010, 0x0)      = 0 0

84926/0x712c6e: mmap(0x0, 0x4000, 0x1, 0x40001, 0x3, 0x0)    = 0x1063CD000 0

84926/0x712c6e: close(0x3)          = 0 0

84926/0x712c6e: ioctl(0x2, 0x4004667A, 0x7FF7B9B570D4)    = 0 0

84926/0x712c6e: mprotect(0x1063D6000, 0x1000, 0x0)      = 0 0

84926/0x712c6e: mprotect(0x1063DD000, 0x1000, 0x0)      = 0 0

84926/0x712c6e: mprotect(0x1063DE000, 0x1000, 0x0)      = 0 0

84926/0x712c6e: mprotect(0x1063E5000, 0x1000, 0x0)      = 0 0

84926/0x712c6e: mprotect(0x1063D1000, 0x98, 0x1)      = 0 0

84926/0x712c6e: mprotect(0x1063D1000, 0x98, 0x3)      = 0 0

84926/0x712c6e: mprotect(0x1063D1000, 0x98, 0x1)      = 0 0

84926/0x712c6e: mprotect(0x1063E6000, 0x1000, 0x1)      = 0 0

84926/0x712c6e: mprotect(0x1063E7000, 0x98, 0x1)      = 0 0

84926/0x712c6e: mprotect(0x1063E7000, 0x98, 0x3)      = 0 0

```

```

84926/0x712c6e: mprotect(0x1063E7000, 0x98, 0x1)      = 0 0

84926/0x712c6e: mprotect(0x1063D1000, 0x98, 0x3)      = 0 0

84926/0x712c6e: mprotect(0x1063D1000, 0x98, 0x1)      = 0 0

84926/0x712c6e: mprotect(0x1063E6000, 0x1000, 0x3)     = 0 0

84926/0x712c6e: mprotect(0x1063E6000, 0x1000, 0x1)     = 0 0

84926/0x712c6e: mprotect(0x106900000, 0x40000, 0x3)     = 0 0

84926/0x712c6e: mprotect(0x106900000, 0x40000, 0x1)     = 0 0

84926/0x712c6e: issetugid(0x0, 0x0, 0x0)          = 0 0

84926/0x712c6e: mprotect(0x106900000, 0x40000, 0x3)     = 0 0

84926/0x712c6e: getentropy(0x7FF7B9B568A0, 0x20, 0x0)      = 0 0

84926/0x712c6e: mprotect(0x106900000, 0x40000, 0x1)     = 0 0

84926/0x712c6e: mprotect(0x106900000, 0x40000, 0x3)     = 0 0

84926/0x712c6e: mprotect(0x106900000, 0x40000, 0x1)     = 0 0

84926/0x712c6e: getattrlist("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab5-7/build/server\0", 0x7FF7B9B56FB0, 0x7FF7B9B56FC8) = 0 0

84926/0x712c6e: access("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab5-7/build\0", 0x4, 0x0)    = 0 0

84926/0x712c6e: open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab5-7/build\0", 0x0, 0x0)    = 3 0

84926/0x712c6e: fstat64(0x3, 0x7FE6A704530, 0x0)          = 0 0

84926/0x712c6e: csctl(0x0, 0x7FF7B9B5720C, 0x4)          = -1 1

84926/0x712c6e: fgetattrlist(0x3, 0x7FF7B9B57220, 0x7FF7B9B57240)    = 0 0

84926/0x712c6e: __mac_syscall(0x7FF8211BC6A4, 0x2, 0x7FF7B9B57240)    = 0 0

84926/0x712c6e: fcntl(0x3, 0x32, 0x7FF7B9B56EC0)          = 0 0

84926/0x712c6e: close(0x3)              = 0 0

84926/0x712c6e: open("/Users/mishazhadnov/Desktop/wD/OS_labs_3t/lab5-7/build/Info.plist\0", 0x0, 0x0)    = -1 2

84926/0x712c6e: proc_info(0x2, 0x14BBE, 0xD)          = 64 0

84926/0x712c6e: csops_audittoken(0x14BBE, 0x10, 0x7FF7B9B57210)    = -1 22

dtrace: error on enabled probe ID 1741 (ID 573: syscall::sysctl:return): invalid kernel access in action #11 at DIF offset 28

dtrace: error on enabled probe ID 1741 (ID 573: syscall::sysctl:return): invalid kernel access in action #11 at DIF offset 28

84926/0x712c6e: csops(0x14BBE, 0x0, 0x7FF7B9B57674)          = 0 0

84926/0x712c6e: mprotect(0x106900000, 0x40000, 0x3)     = 0 0

84926/0x712c6e: socketpair(0x1, 0x1, 0x0)          = 0 0

84926/0x712c6e: fcntl(0x3, 0x2, 0x1)              = 0 0

84926/0x712c6e: fcntl(0x4, 0x2, 0x1)              = 0 0

```

```

84926/0x712c6e: fcntl(0x3, 0x3, 0x0)      = 2 0

84926/0x712c6e: fcntl(0x3, 0x4, 0x6)      = 0 0

84926/0x712c6e: fcntl(0x4, 0x3, 0x0)      = 2 0

84926/0x712c6e: fcntl(0x4, 0x4, 0x6)      = 0 0

84926/0x712c6e: open("/dev/urandom\0", 0x0, 0x0)    = 5 0

84926/0x712c6e: fstat64(0x5, 0x7FF7B9B58190, 0x0)    = 0 0

84926/0x712c6e: fcntl(0x5, 0x1, 0x0)      = 0 0

84926/0x712c6e: fcntl(0x5, 0x2, 0x1)      = 0 0

dtrace: error on enabled probe ID 1741 (ID 573: syscall::syscall:return): invalid kernel access in action #11 at DIF offset 28

dtrace: error on enabled probe ID 1713 (ID 175: syscall::read:return): invalid kernel access in action #13 at DIF offset 68

84926/0x712c6e: socketpair(0x1, 0x1, 0x0)      = 0 0

84926/0x712c6e: fcntl(0x6, 0x2, 0x1)      = 0 0

84926/0x712c6e: fcntl(0x7, 0x2, 0x1)      = 0 0

84926/0x712c6e: fcntl(0x6, 0x3, 0x0)      = 2 0

84926/0x712c6e: fcntl(0x6, 0x4, 0x6)      = 0 0

84926/0x712c6e: fcntl(0x7, 0x3, 0x0)      = 2 0

84926/0x712c6e: fcntl(0x7, 0x4, 0x6)      = 0 0

84926/0x712c6e: kqueue(0x0, 0x0, 0x0)      = 8 0

84926/0x712c6e: kevent(0x8, 0x7FF7B9B581D0, 0x1)    = 0 0

84926/0x712c6e: pthread_create(0x106976590, 0x600003CB0040, 0x70000E6E7000)    = 242118656 0

84926/0x712c6e: socketpair(0x1, 0x1, 0x0)      = 0 0

84926/0x712c6e: fcntl(0x9, 0x2, 0x1)      = 0 0

84926/0x712c6e: fcntl(0xA, 0x2, 0x1)      = 0 0

84926/0x712c6e: fcntl(0x9, 0x3, 0x0)      = 2 0

84926/0x712c6e: fcntl(0x9, 0x4, 0x6)      = 0 0

84926/0x712c70: fork()      = 0 0

84926/0x712c6e: fcntl(0xA, 0x3, 0x0)      = 2 0

84926/0x712c70: thread_selfid(0x0, 0x0, 0x0)    = 7416944 0

84926/0x712c6e: fcntl(0xA, 0x4, 0x6)      = 0 0

84926/0x712c6e: kqueue(0x0, 0x0, 0x0)      = 11 0

84926/0x712c70: __pthread_sigmask(0x1, 0x70000E6E6F94, 0x0)    = 0 0

84926/0x712c6e: kevent(0xB, 0x7FF7B9B581D0, 0x1)    = 0 0

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84926/0x712c70: proc_info(0x5, 0x14BBE, 0x2)      = 0 stat640

84926/0x712c6e: bsdthread_create(0x106976590, 0x600003CB0100, 0x70000E76A000)    = 242655232 0

84926/0x712c71: fork()      = 0 0

84926/0x712c71: thread_selfid(0x0, 0x0, 0x0)      = 7416945 tem/libcompiler_rt.dylib0

84926/0x712c71: __pthread_sigmask(0x1, 0x70000E769F94, 0x0)      = 0 0

84926/0x712c6e: socketpair(0x1, 0x1, 0x0)      = 0 0

84926/0x712c71: proc_info(0x5, 0x14BBE, 0x2)      = 0 0

84926/0x712c6e: fcntl(0xC, 0x2, 0x1)      = 0 0

84926/0x712c6e: fcntl(0xD, 0x2, 0x1)      = 0 0

84926/0x712c6e: fcntl(0xC, 0x3, 0x0)      = 2 0

84926/0x712c6e: fcntl(0xC, 0x4, 0x6)      = 0 0

84926/0x712c6e: fcntl(0xD, 0x3, 0x0)      = 2 0

84926/0x712c6e: fcntl(0xD, 0x4, 0x6)      = 0 0

84926/0x712c6e: socketpair(0x1, 0x1, 0x0)      = 0 0

84926/0x712c6e: fcntl(0xE, 0x2, 0x1)      = 0 0

84926/0x712c6e: fcntl(0xF, 0x2, 0x1)      = 0 0

84926/0x712c6e: fcntl(0xE, 0x3, 0x0)      = 2 0

84926/0x712c6e: fcntl(0xE, 0x4, 0x6)      = 0 0

84926/0x712c6e: fcntl(0xF, 0x3, 0x0)      = 2 0

84926/0x712c6e: fcntl(0xF, 0x4, 0x6)      = 0 0

84926/0x712c6e: socketpair(0x1, 0x1, 0x0)      = 0 0

84926/0x712c6e: fcntl(0x10, 0x2, 0x1)      = 0 0

84926/0x712c6e: fcntl(0x11, 0x2, 0x1)      = 0 0

84926/0x712c6e: fcntl(0x10, 0x3, 0x0)      = 2 0

84926/0x712c6e: fcntl(0x10, 0x4, 0x6)      = 0 0

84926/0x712c6e: fcntl(0x11, 0x3, 0x0)      = 2 0

84926/0x712c6e: fcntl(0x11, 0x4, 0x6)      = 0 0

84926/0x712c6e: poll(0x7FF7B9B577E0, 0x1, 0x0)      = 0 0

84926/0x712c6e: sendto(0x9, 0x7FF7B9B57797, 0x1)      = 1 0

84926/0x712c6e: sendto(0x10, 0x7FF7B9B57797, 0x1)      = 1 0

84926/0x712c71: kevent(0xB, 0x0, 0x0)      = 1 0

84926/0x712c71: poll(0x70000E767E20, 0x1, 0x0)      = 1 0

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84926/0x712c6e: poll(0x7FF7B9B58160, 0x1, 0xFFFFFFFFFFFFFFFF) = 1 0

84926/0x712c71: recvfrom(0xA, 0x70000E767E27, 0x1) = 1 0

84926/0x712c6e: recvfrom(0x11, 0x7FF7B9B58167, 0x1) = 1 0

84926/0x712c6e: poll(0x7FF7B9B58160, 0x1, 0x0) = 0 0

84926/0x712c71: shm_open(0x7FF8194560E0, 0x0, 0x0) = 18 0

84926/0x712c71: mmap(0x0, 0x1000, 0x1, 0x40001, 0x12, 0x0) = 0x1063EF000 0

84926/0x712c71: close_nocancel(0x12) = 0 0

84926/0x712c71: socket(0x2, 0x1, 0x6) = 18 0

84926/0x712c71: fcntl(0x12, 0x2, 0x1) = 0 0

84926/0x712c71: setsockopt(0x12, 0xFFFF, 0x1022) = 0 0

84926/0x712c71: fcntl(0x12, 0x3, 0x0) = 2 0

84926/0x712c71: fcntl(0x12, 0x4, 0x6) = 0 0

84926/0x712c71: connect(0x12, 0x600001CB01C0, 0x10) = -1 36

84926/0x712c71: kevent(0xB, 0x70000E767DB0, 0x1) = 0 0

84926/0x712c71: poll(0x70000E767E20, 0x1, 0x0) = 0 0

84926/0x712c71: kevent(0xB, 0x0, 0x0) = 1 0

84911/0x7129e9: kevent(0xB, 0x0, 0x0) = 1 0

84911/0x7129e9: accept(0x12, 0x700003B43E10, 0x700003B43E0C) = 19 0

84911/0x7129e9: fcntl(0x13, 0x2, 0x1) = 0 0

84911/0x7129e9: setsockopt(0x13, 0xFFFF, 0x1022) = 0 0

84911/0x7129e9: setsockopt(0x13, 0x6, 0x1) = 0 0

84926/0x712c71: kevent(0xB, 0x70000E767E70, 0x1) = 0 0

84911/0x7129e9: getsockname(0x13, 0x700003B43DD8, 0x700003B43D7C) = 0 0

84926/0x712c71: getsockopt(0x12, 0xFFFF, 0x1007) = 0 0

84926/0x712c71: setsockopt(0x12, 0x6, 0x1) = 0 0

84926/0x712c71: getsockname(0x12, 0x70000E767E58, 0x70000E767DFC) = 0 0

84911/0x7129e9: getpeername(0x13, 0x700003B43DD8, 0x700003B43D7C) = 0 0

84926/0x712c71: getpeername(0x12, 0x70000E767D70, 0x70000E76793C) = 0 0

84926/0x712c71: fcntl(0x12, 0x3, 0x0) = 6 0

84926/0x712c71: fcntl(0x12, 0x4, 0x6) = 0 0

84911/0x7129e9: getpeername(0x13, 0x700003B43D80, 0x700003B4394C) = 0 0

84911/0x7129e9: fcntl(0x13, 0x3, 0x0) = 2 0

84926/0x712c71: sendto(0x9, 0x70000E767D97, 0x1) = 1 0

84911/0x7129e9: fcntl(0x13, 0x4, 0x6) = 0 0

84926/0x712c71: kevent(0xB, 0x0, 0x0) = 1 0

84926/0x712c71: poll(0x70000E767E20, 0x1, 0x0) = 1 0

84911/0x7129e9: sendto(0x9, 0x700003B43D97, 0x1) = 1 0

84926/0x712c71: recvfrom(0xA, 0x70000E767E27, 0x1) = 1 0

84911/0x7129e9: kevent(0xB, 0x0, 0x0) = 1 0

84911/0x7129e9: poll(0x700003B43E20, 0x1, 0x0) = 1 0

84926/0x712c71: kevent(0xB, 0x70000E767DF0, 0x1) = 0 0

84911/0x7129e9: recvfrom(0xA, 0x700003B43E27, 0x1) = 1 0

84926/0x712c71: kevent(0xB, 0x70000E767DF0, 0x1) = 0 0

84926/0x712c71: recvfrom(0x12, 0x7F7E6C008800, 0xC) = -1 35

84911/0x7129e9: kevent(0xB, 0x700003B43DF0, 0x1) = 0 0

84911/0x7129e9: kevent(0xB, 0x700003B43DF0, 0x1) = 0 0

84926/0x712c71: poll(0x70000E767E20, 0x1, 0x0) = 0 dylib0

84911/0x7129e9: recvfrom(0x13, 0x7FE2E9808800, 0xC) = -1 35

84926/0x712c71: kevent(0xB, 0x0, 0x0) = 1 0

84926/0x712c71: sendto(0x12, 0x7F7E6C008840, 0xA) = 10 0

84926/0x712c71: kevent(0xB, 0x70000E767EC0, 0x1) = 0 0

84911/0x7129e9: poll(0x700003B43E20, 0x1, 0x0) = 0 0

84911/0x7129e9: kevent(0xB, 0x0, 0x0) = 2 0

84911/0x7129e9: sendto(0x13, 0x7FE2E9808840, 0xA) = 10 0

84911/0x7129e9: kevent(0xB, 0x700003B43EC0, 0x1) = 0 0

84926/0x712c71: kevent(0xB, 0x0, 0x0) = 1 0

84911/0x7129e9: recvfrom(0x13, 0x7FE2E9808800, 0xC) = 10 0

84911/0x7129e9: kevent(0xB, 0x700003B43E20, 0x1) = 0 0

84926/0x712c71: recvfrom(0x12, 0x7F7E6C008800, 0xC) = 10 0

84911/0x7129e9: recvfrom(0x13, 0x7FE2E980880A, 0x2) = -1 35

84911/0x7129e9: kevent(0xB, 0x0, 0x0) = 1 0

84926/0x712c71: kevent(0xB, 0x70000E767E20, 0x1) = 0 0

84926/0x712c71: recvfrom(0x12, 0x7F7E6C00880A, 0x2) = -1 35

84911/0x7129e9: sendto(0x13, 0x7FE2E980884A, 0x1) = 1 0

84911/0x7129e9: kevent(0xB, 0x700003B43EC0, 0x1)	= 0 0
84926/0x712c71: kevent(0xB, 0x0, 0x0)	= 1 0
84926/0x712c71: sendto(0x12, 0x7F7E6C00884A, 0x1)	= 1 0
84926/0x712c71: kevent(0xB, 0x70000E767EC0, 0x1)	= 0 0
84911/0x7129e9: kevent(0xB, 0x0, 0x0)	= 1 0
84926/0x712c71: kevent(0xB, 0x0, 0x0)	= 1 0
84911/0x7129e9: recvfrom(0x13, 0x7FE2E980880A, 0x2)	= 1 0
84926/0x712c71: recvfrom(0x12, 0x7F7E6C00880A, 0x2)	= 1 0
84911/0x7129e9: kevent(0xB, 0x700003B43E20, 0x1)	= 0 0
84926/0x712c71: kevent(0xB, 0x70000E767E20, 0x1)	= 0 0
84911/0x7129e9: recvfrom(0x13, 0x7FE2E980880B, 0x35)	= -1 35
84926/0x712c71: recvfrom(0x12, 0x7F7E6C00880B, 0x35)	= -1 35
84911/0x7129e9: kevent(0xB, 0x0, 0x0)	= 1 0
84926/0x712c71: kevent(0xB, 0x0, 0x0)	= 1 0
84911/0x7129e9: sendto(0x13, 0x7FE2E980884B, 0x35)	= 53 0
84926/0x712c71: sendto(0x12, 0x7F7E6C00884B, 0x35)	= 53 0
84911/0x7129e9: kevent(0xB, 0x700003B43EC0, 0x1)	= 0 0
84926/0x712c71: kevent(0xB, 0x70000E767EC0, 0x1)	= 0 ♦♦♦♦0
84911/0x7129e9: kevent(0xB, 0x0, 0x0)	= 1 0
84926/0x712c71: kevent(0xB, 0x0, 0x0)	= 1 0
84911/0x7129e9: recvfrom(0x13, 0x7FE2E980880B, 0x35)	= 53 0
84926/0x712c71: recvfrom(0x12, 0x7F7E6C00880B, 0x35)	= 53 0
84911/0x7129e9: kevent(0xB, 0x700003B43E80, 0x1)	= 0 0
84911/0x7129e9: recvfrom(0x13, 0x7FE2E980B008, 0x2000)	= -1 35
84911/0x7129e9: kevent(0xB, 0x0, 0x0)	= 1 0
84911/0x7129e9: sendto(0x13, 0x7FE2E9809000, 0x28)	= 40 0
84911/0x7129e9: kevent(0xB, 0x0, 0x0)	= 1 0
84911/0x7129e9: kevent(0xB, 0x700003B43EC0, 0x1)	= 0 0
84926/0x712c71: kevent(0xB, 0x70000E767E80, 0x1)	= 0 0
84926/0x712c71: recvfrom(0x12, 0x7F7E6C008A08, 0x2000)	= 40 0
84926/0x712c71: kevent(0xB, 0x0, 0x0)	= 1 0
84926/0x712c71: sendto(0x10, 0x70000E767D97, 0x1)	= 1 0

84926/0x712c6e: poll(0x7FF7B9B58160, 0x1, 0xFFFFFFFFFFFFFFFF) = 1 0

84926/0x712c71: sendto(0x12, 0x7F7E6C808200, 0x1B) = 27 0

84926/0x712c6e: recvfrom(0x11, 0x7FF7B9B58167, 0x1) = 1 0

84911/0x7129e9: kevent(0xB, 0x0, 0x0) = 1 Cryptexes/OS/usr/lib/libSystem.B.dylib0

84926/0x712c71: kevent(0xB, 0x0, 0x0) = 1 00000

84926/0x712c71: kevent(0xB, 0x70000E767EC0, 0x1) = 0 Cryptexes/OS/usr/lib/libSystem.B.dylib0

84926/0x712c6e: sendto(0x9, 0x7FF7B9B57F97, 0x1) = 1 0

84926/0x712c71: kevent(0xB, 0x0, 0x0) = 1 0

84911/0x7129e9: recvfrom(0x13, 0x7FE2E980B008, 0x2000) = 27 0

84926/0x712c71: poll(0x70000E767E20, 0x1, 0x0) = 1 0

84926/0x712c71: recvfrom(0xA, 0x70000E767E27, 0x1) = 1 0

84926/0x712c6e: poll(0x7FF7B9B58160, 0x1, 0x0) = 0 0

84926/0x712c71: poll(0x70000E767E20, 0x1, 0x0) = 0 0

84911/0x7129e9: sendto(0xC, 0x700003B43C97, 0x1) = 1 0

84911/0x7129df: poll(0x7FF7B2EC6FA0, 0x1, 0xBB8) = 1 0

84911/0x7129df: recvfrom(0xD, 0x7FF7B2EC6FA7, 0x1) = 1 0

84911/0x7129e9: kevent(0xB, 0x700003B43E60, 0x1) = 0 0

84911/0x7129e9: kevent(0xB, 0x700003B43E50, 0x1) = 0 0

84911/0x7129df: poll(0x7FF7B2EC6FA0, 0x1, 0x0) = 0 0

84911/0x7129df: sendto(0x9, 0x7FF7B2EC6F17, 0x1) = 1 0

84911/0x7129e9: kevent(0xB, 0x0, 0x0) = 1 0

84911/0x7129e9: poll(0x700003B43E20, 0x1, 0x0) = 1 0

84911/0x7129e9: recvfrom(0xA, 0x700003B43E27, 0x1) = 1 0

84911/0x7129e9: kevent(0xB, 0x700003B43E10, 0x1) = 0 0

84911/0x7129e9: sendto(0xC, 0x700003B43CD7, 0x1) = 1 0

84911/0x7129df: poll(0x7FF7B2EC6FA0, 0x1, 0xFFFFFFFFFFFFFFFF) = 1 0

84911/0x7129df: recvfrom(0xD, 0x7FF7B2EC6FA7, 0x1) = 1 0

84911/0x7129e9: sendto(0x13, 0x7FE2E9809000, 0x7) = 7 0

84911/0x7129df: poll(0x7FF7B2EC6FA0, 0x1, 0x0) = 0 0

84926/0x712c71: kevent(0xB, 0x0, 0x0) = 1 0

84911/0x7129e9: poll(0x700003B43E20, 0x1, 0x0) = 0 0

84911/0x7129e9: kevent(0xB, 0x0, 0x0) = 1 0

84926/0x712c71: recvfrom(0x12, 0x7F7E6C008A08, 0x2000) = 7 0

84911/0x7129e9: kevent(0xB, 0x700003B43EC0, 0x1) = 0 0

84926/0x712c71: sendto(0x10, 0x70000E767E17, 0x1) = 1 0

84926/0x712c6e: poll(0x7FF7B9B58160, 0x1, 0xFFFFFFFFFFFFFFFF) = 1 0

84926/0x712c6e: recvfrom(0x11, 0x7FF7B9B58167, 0x1) = 1 em.B.dylib0

84926/0x712c6e: poll(0x7FF7B9B58160, 0x1, 0x0) = 0 0

84926/0x712c6e: sendto(0x9, 0x7FF7B9B580D7, 0x1) = 1 0

84926/0x712c71: kevent(0xB, 0x0, 0x0) = 1 0

84926/0x712c71: poll(0x70000E767E20, 0x1, 0x0) = 1 0

84926/0x712c6e: poll(0x7FF7B9B581A0, 0x1, 0x0) = 0 0

84926/0x712c71: recvfrom(0xA, 0x70000E767E27, 0x1) = 1 0

84926/0x712c71: kevent(0xB, 0x70000E767E10, 0x1) = 0 0

84926/0x712c71: sendto(0x10, 0x70000E767CD7, 0x1) = 1 0

84926/0x712c71: sendto(0x12, 0x7F7E6C808200, 0x9) = 9 0

84926/0x712c6e: poll(0x7FF7B9B58160, 0x1, 0xFFFFFFFFFFFFFFFF) = 1 0

84911/0x7129e9: kevent(0xB, 0x0, 0x0) = 1 0

84926/0x712c71: poll(0x70000E767E20, 0x1, 0x0) = 0 0

84926/0x712c6e: recvfrom(0x11, 0x7FF7B9B58167, 0x1) = 1 0

84911/0x7129e9: recvfrom(0x13, 0x7FE2E980B008, 0x2000) = 9 0

84926/0x712c71: kevent(0xB, 0x0, 0x0) = 1 0

84911/0x7129e9: sendto(0xC, 0x700003B43E17, 0x1) = 1 0

84926/0x712c71: kevent(0xB, 0x70000E767EC0, 0x1) = 0 0

84911/0x7129df: poll(0x7FF7B2EC6FA0, 0x1, 0xFFFFFFFFFFFFFFFF) = 1 0

84926/0x712c6e: poll(0x7FF7B9B58160, 0x1, 0x0) = 0 0

84911/0x7129df: recvfrom(0xD, 0x7FF7B2EC6FA7, 0x1) = 1 0

84911/0x7129df: poll(0x7FF7B2EC6FA0, 0x1, 0x0) = 0 0

84911/0x7129df: sendto(0x9, 0x7FF7B2EC6ED7, 0x1) = 1 0

84911/0x7129e9: kevent(0xB, 0x0, 0x0) = 1 0

84911/0x7129e9: poll(0x700003B43E20, 0x1, 0x0) = 1 0

84911/0x7129e9: recvfrom(0xA, 0x700003B43E27, 0x1) = 1 0

84911/0x7129df: fstat64(0x1, 0x7FF7B2EC6FE8, 0x0) = 0 0

84911/0x7129e9: poll(0x700003B43E20, 0x1, 0x0) = 0 0

84911/0x7129df: ioctl(0x1, 0x4004667A, 0x7FF7B2EC7034) = 0 0

dtrace: error on enabled probe ID 1712 (ID 963: syscall::write_nocancel:return): invalid kernel access in action #13 at DIF offset 68

exec 13 myVal 10

OK:13

dtrace: error on enabled probe ID 1714 (ID 961: syscall::read_nocancel:return): invalid kernel access in action #13 at DIF offset 68

84911/0x7129df: poll(0x7FF7B2EC6DE0, 0x1, 0x0) = 0 S_labs_3t/lab5-7/build/client0

84911/0x7129df: sendto(0x9, 0x7FF7B2EC6D17, 0x1) = 1 lient0

84911/0x7129e9: kevent(0xB, 0x0, 0x0) = 1 0

84911/0x7129e9: poll(0x700003B43E20, 0x1, 0x0) = 1 0

84911/0x7129e9: recvfrom(0xA, 0x700003B43E27, 0x1) = 1 0

84911/0x7129e9: kevent(0xB, 0x700003B43E10, 0x1) = 0 0

84911/0x7129e9: sendto(0x13, 0x7FE2E9809000, 0xB) = 11 0

84911/0x7129e9: poll(0x700003B43E20, 0x1, 0x0) = 0 0

84926/0x712c71: kevent(0xB, 0x0, 0x0) = 1 0

84911/0x7129e9: kevent(0xB, 0x0, 0x0) = 1 0

84911/0x7129e9: kevent(0xB, 0x700003B43EC0, 0x1) = 0 0

84926/0x712c71: recvfrom(0x12, 0x7F7E6C008A08, 0x2000) = 11 0

84926/0x712c71: sendto(0x10, 0x70000E767E17, 0x1) = 1 0

84926/0x712c6e: poll(0x7FF7B9B58160, 0x1, 0xFFFFFFFFFFFFFFFF) = 1 0

84926/0x712c6e: recvfrom(0x11, 0x7FF7B9B58167, 0x1) = 1 0

84926/0x712c6e: poll(0x7FF7B9B58160, 0x1, 0x0) = 0 0

84926/0x712c6e: poll(0x7FF7B9B581A0, 0x1, 0x0) = 0 0

84926/0x712c6e: sendto(0x9, 0x7FF7B9B58157, 0x1) = 1 0

84926/0x712c71: kevent(0xB, 0x0, 0x0) = 1 0

84926/0x712c71: poll(0x70000E767E20, 0x1, 0x0) = 1 0

84926/0x712c71: recvfrom(0xA, 0x70000E767E27, 0x1) = 1 0

84926/0x712c71: kevent(0xB, 0x70000E767E10, 0x1) = 0 0

84926/0x712c71: sendto(0x12, 0x7F7E6C808200, 0x9) = 9 0

84926/0x712c71: poll(0x70000E767E20, 0x1, 0x0) = 0 0

84911/0x7129e9: kevent(0xB, 0x0, 0x0) = 1 0

84926/0x712c71: kevent(0xB, 0x0, 0x0) = 1 0

84926/0x712c71: kevent(0xB, 0x70000E767EC0, 0x1) = 0 0

84911/0x7129e9: recvfrom(0x13, 0x7FE2E980B008, 0x2000) = 9 0

84911/0x7129e9: sendto(0xC, 0x700003B43E17, 0x1) = 1 0

84911/0x7129df: poll(0x7FF7B2EC6DA0, 0x1, 0xFFFFFFFFFFFFFFFF) = 1 0

84911/0x7129df: recvfrom(0xD, 0x7FF7B2EC6DA7, 0x1) = 1 0

84911/0x7129df: poll(0x7FF7B2EC6DA0, 0x1, 0x0) = 0 0

84911/0x7129df: sendto(0x9, 0x7FF7B2EC6E17, 0x1) = 1 0

84911/0x7129e9: kevent(0xB, 0x0, 0x0) = 1 0

84911/0x7129e9: poll(0x700003B43E20, 0x1, 0x0) = 1 0

84911/0x7129e9: recvfrom(0xA, 0x700003B43E27, 0x1) = 1 0

84911/0x7129e9: kevent(0xB, 0x700003B43E10, 0x1) = 0 0

84911/0x7129e9: sendto(0x13, 0x7FE2E9809000, 0x12) = 18 0

84926/0x712c71: kevent(0xB, 0x0, 0x0) = 1 0

84911/0x7129e9: poll(0x700003B43E20, 0x1, 0x0) = 0 0

84926/0x712c71: recvfrom(0x12, 0x7F7E6C008A08, 0x2000) = 18 0

84911/0x7129e9: kevent(0xB, 0x0, 0x0) = 1 0

84911/0x7129e9: kevent(0xB, 0x700003B43EC0, 0x1) = 0 0

84926/0x712c71: sendto(0x10, 0x70000E767E17, 0x1) = 1 0

84926/0x712c6e: poll(0x7FF7B9B58160, 0x1, 0xFFFFFFFFFFFFFFFF) = 1 0

84926/0x712c6e: recvfrom(0x11, 0x7FF7B9B58167, 0x1) = 1 0

84926/0x712c6e: poll(0x7FF7B9B58160, 0x1, 0x0) = 0 0

84926/0x712c6e: sendto(0x9, 0x7FF7B9B58157, 0x1) = 1 0

84926/0x712c71: kevent(0xB, 0x0, 0x0) = 1 /build/Info.plist0

84926/0x712c71: poll(0x70000E767E20, 0x1, 0x0) = 1 0

84926/0x712c71: recvfrom(0xA, 0x70000E767E27, 0x1) = 1 0

84926/0x712c71: kevent(0xB, 0x70000E767E10, 0x1) = 0

0

84926/0x712c71: sendto(0x12, 0x7F7E6C808200, 0x9) = 9 0

84911/0x7129e9: kevent(0xB, 0x0, 0x0) = 1 0

84926/0x712c71: poll(0x70000E767E20, 0x1, 0x0) = 0 0

84911/0x7129e9: recvfrom(0x13, 0x7FE2E980B008, 0x2000) = 9 0

84926/0x712c71: kevent(0xB, 0x0, 0x0) = 1 0

84911/0x7129e9: sendto(0xC, 0x700003B43E17, 0x1) = 1 0


```

84926/0x712c71: kevent(0xB, 0x70000E767EC0, 0x1)          = 0 0

84911/0x7129df: poll(0x7FF7B2EC6EA0, 0x1, 0xFFFFFFFF)    = 1 0

84911/0x7129df: recvfrom(0xD, 0x7FF7B2EC6EA7, 0x1)        = 1 0

84911/0x7129df: poll(0x7FF7B2EC6EA0, 0x1, 0x0)            = 0 0

kill

dtrace: error on enabled probe ID 1714 (ID 961: syscall::read_nocancel:return): invalid kernel access in action #13 at DIF offset 68

84911/0x7129df: poll(0x7FF7B2EC6F20, 0x1, 0x0)            = 0 0

84911/0x7129df: sendto(0x9, 0x7FF7B2EC6E57, 0x1)           = 1 0

84911/0x7129e9: kevent(0xB, 0x0, 0x0)                       = 1 0

84911/0x7129e9: poll(0x700003B43E20, 0x1, 0x0)            = 1 10

84911/0x7129e9: recvfrom(0xA, 0x700003B43E27, 0x1)         = 1 0

84911/0x7129e9: kevent(0xB, 0x700003B43E10, 0x1)           = 0 0

84911/0x7129e9: sendto(0x13, 0x7FE2E9809000, 0xB)          = 11 0

84911/0x7129e9: poll(0x700003B43E20, 0x1, 0x0)            = 0 0

84926/0x712c71: kevent(0xB, 0x0, 0x0)                       = 1 0

84911/0x7129e9: kevent(0xB, 0x0, 0x0)                       = 1 0

84911/0x7129e9: kevent(0xB, 0x700003B43EC0, 0x1)           = 0 0

84926/0x712c71: recvfrom(0x12, 0x7F7E6C008A08, 0x2000)     = 11 0

84926/0x712c71: sendto(0x10, 0x70000E767E17, 0x1)          = 1 0

84926/0x712c6e: poll(0x7FF7B9B58160, 0x1, 0xFFFFFFFF)     = 1 0

84926/0x712c6e: recvfrom(0x11, 0x7FF7B9B58167, 0x1)        = 1 0

84926/0x712c6e: poll(0x7FF7B9B58160, 0x1, 0x0)            = 0 0

84926/0x712c6e: poll(0x7FF7B9B581A0, 0x1, 0x0)            = 0 0

84926/0x712c6e: sendto(0x9, 0x7FF7B9B58157, 0x1)           = 1 0

84926/0x712c71: kevent(0xB, 0x0, 0x0)                       = 1 0

84926/0x712c71: poll(0x70000E767E20, 0x1, 0x0)            = 1 0

84926/0x712c71: recvfrom(0xA, 0x70000E767E27, 0x1)         = 1 0

84926/0x712c71: kevent(0xB, 0x70000E767E10, 0x1)           = 0 10

84926/0x712c71: sendto(0x12, 0x7F7E6C808200, 0x9)          = 9 0

84926/0x712c71: poll(0x70000E767E20, 0x1, 0x0)            = 0 0

84911/0x7129e9: kevent(0xB, 0x0, 0x0)                       = 1 0

84926/0x712c71: kevent(0xB, 0x0, 0x0)                       = 1 0

```

84911/0x7129e9: recvfrom(0x13, 0x7FE2E980B008, 0x2000) = 9 0

84926/0x712c71: kevent(0xB, 0x70000E767EC0, 0x1) = 0 0

84911/0x7129e9: sendto(0xC, 0x700003B43E17, 0x1) = 1 0

84911/0x7129df: poll(0x7FF7B2EC6EE0, 0x1, 0xFFFFFFFFFFFFFFFF) = 1 0

84911/0x7129df: recvfrom(0xD, 0x7FF7B2EC6EE7, 0x1) = 1 0

84911/0x7129df: poll(0x7FF7B2EC6EE0, 0x1, 0x0) = 0 0

84911/0x7129df: sendto(0x9, 0x7FF7B2EC6F57, 0x1) = 1 0

84911/0x7129e9: kevent(0xB, 0x0, 0x0) = 1 0

84911/0x7129e9: poll(0x700003B43E20, 0x1, 0x0) = 1 0

84911/0x7129e9: recvfrom(0xA, 0x700003B43E27, 0x1) = 1 0

84911/0x7129e9: kevent(0xB, 0x700003B43E10, 0x1) = 0 0

84911/0x7129e9: sendto(0x13, 0x7FE2E9809000, 0xA) = 10 0

84911/0x7129e9: poll(0x700003B43E20, 0x1, 0x0) = 0 0

84926/0x712c71: kevent(0xB, 0x0, 0x0) = 1 0

84911/0x7129e9: kevent(0xB, 0x0, 0x0) = 1 0

84911/0x7129e9: kevent(0xB, 0x700003B43EC0, 0x1) = 0 0

84926/0x712c71: recvfrom(0x12, 0x7F7E6C008A08, 0x2000) = 10 0

84926/0x712c71: sendto(0x10, 0x70000E767E17, 0x1) = 1 0

84926/0x712c6e: poll(0x7FF7B9B58160, 0x1, 0xFFFFFFFFFFFFFFFF) = 1 0

84926/0x712c6e: recvfrom(0x11, 0x7FF7B9B58167, 0x1) = 1 0

84926/0x712c6e: poll(0x7FF7B9B58160, 0x1, 0x0) = 0 0

84926/0x712c6e: sendto(0x9, 0x7FF7B9B58157, 0x1) = 1 0

84926/0x712c71: kevent(0xB, 0x0, 0x0) = 1 0

84926/0x712c71: poll(0x70000E767E20, 0x1, 0x0) = 1 0

84926/0x712c6e: poll(0x7FF7B9B58160, 0x1, 0x0) = 0 0

84926/0x712c71: recvfrom(0xA, 0x70000E767E27, 0x1) = 1 0

84926/0x712c71: kevent(0xB, 0x70000E767E10, 0x1) = 0 0

84926/0x712c6e: sendto(0x6, 0x7FF7B9B58297, 0x1) = 1 0

84926/0x712c71: sendto(0x12, 0x7F7E6C808200, 0x6) = 6 0

84926/0x712c70: kevent(0x8, 0x0, 0x0) = 1 0

84926/0x712c71: sendto(0x10, 0x70000E767D97, 0x1) = 1 0

84926/0x712c70: poll(0x70000E6E4E20, 0x1, 0x0) = 1 0

84911/0x7129e9: kevent(0xB, 0x0, 0x0) = 1 0

84926/0x712c70: recvfrom(0x7, 0x70000E6E4E27, 0x1) = 1 0

84911/0x7129e9: recvfrom(0x13, 0x7FE2E980B008, 0x2000) = 6 0

84926/0x712c71: poll(0x70000E767E20, 0x1, 0x0) = 0 0

84926/0x712c70: kevent(0x8, 0x70000E6E4DE0, 0x1) = 0 0

84911/0x7129e9: sendto(0xC, 0x700003B43E17, 0x1) = 1 0

84926/0x712c71: kevent(0xB, 0x0, 0x0) = 1 0

84911/0x7129df: poll(0x7FF7B2EC6FE0, 0x1, 0xFFFFFFFFFFFFFFFF) = 1 0

84926/0x712c71: kevent(0xB, 0x70000E767EC0, 0x1) = 0 0

84926/0x712c70: poll(0x70000E6E4E20, 0x1, 0x0) = 0 0

84926/0x712c70: kevent(0x8, 0x0, 0x0) = 1 0

84911/0x7129df: recvfrom(0xD, 0x7FF7B2EC6FE7, 0x1) = 1 0

84926/0x712c70: poll(0x70000E6E4DE0, 0x1, 0x0) = 1 0

84926/0x712c70: recvfrom(0x11, 0x70000E6E4DE7, 0x1) = 1 0

84911/0x7129df: poll(0x7FF7B2EC6FE0, 0x1, 0x0) = 0 0

84926/0x712c70: sendto(0x9, 0x70000E6E4CD7, 0x1) = 1 0

84926/0x712c71: kevent(0xB, 0x0, 0x0) = 1 0

84911/0x7129df: poll(0x7FF7B2EC6FA0, 0x1, 0x0) = 0 0

84926/0x712c71: poll(0x70000E767E20, 0x1, 0x0) = 1 0

84926/0x712c70: poll(0x70000E6E4DE0, 0x1, 0x0) = 0 0

84911/0x7129df: sendto(0x9, 0x7FF7B2EC6FD7, 0x1) = 1 0

84911/0x7129e9: kevent(0xB, 0x0, 0x0) = 1 0

84926/0x712c71: recvfrom(0xA, 0x70000E767E27, 0x1) = 1 0

84911/0x7129e9: poll(0x700003B43E20, 0x1, 0x0) = 1 0

84926/0x712c71: sendto(0x10, 0x70000E767C97, 0x1) = 1 0

84911/0x7129df: sendto(0x6, 0x7FF7B2EC7117, 0x1) = 1 0

84926/0x712c70: kevent(0x8, 0x0, 0x0) = 1 0

84911/0x7129e9: recvfrom(0xA, 0x700003B43E27, 0x1) = 1 0

84926/0x712c71: kevent(0xB, 0x70000E767CA0, 0x1) = 0 0

84911/0x7129e8: kevent(0x8, 0x0, 0x0) = 1 0

84926/0x712c70: poll(0x70000E6E4DE0, 0x1, 0x0) = 1 0

84911/0x7129e9: kevent(0xB, 0x700003B43DF0, 0x1) = 0 0

84911/0x7129e8: poll(0x700003AC0E20, 0x1, 0x0) = 1 0

84911/0x7129df: sendto(0xC, 0x7FF7B2EC7057, 0x1) = 1 0

84926/0x712c71: close(0x12) = 0 0

84926/0x712c70: recvfrom(0x11, 0x70000E6E4DE7, 0x1) = 1 0

84911/0x7129df: sendto(0xE, 0x7FF7B2EC7057, 0x1) = 1 0

84911/0x7129e8: recvfrom(0x7, 0x700003AC0E27, 0x1) = 1 0

84911/0x7129df: sendto(0x10, 0x7FF7B2EC7057, 0x1) = 1 0

84911/0x7129e9: close(0x12) = 0 0

84911/0x7129e8: kevent(0x8, 0x700003AC0DE0, 0x1) = 0 0

84926/0x712c70: poll(0x70000E6E4DE0, 0x1, 0x0) = 0 0

84911/0x7129e8: kevent(0x8, 0x700003AC0DE0, 0x1) = 0 0

84911/0x7129e9: kevent(0xB, 0x700003B43E10, 0x1) = 0 0

84926/0x712c71: poll(0x70000E767E20, 0x1, 0x0) = 0 0

84926/0x712c70: kevent(0x8, 0x70000E6E4E90, 0x1) = 0 0

84911/0x7129e8: kevent(0x8, 0x700003AC0DA0, 0x1) = 0 0

84911/0x7129e9: kevent(0xB, 0x700003B43E00, 0x1) = 0 0

84911/0x7129e8: close(0x10) = 0 0

84911/0x7129e9: poll(0x700003B43E20, 0x1, 0x0) = 0 0

84911/0x7129e8: close(0x11) = 0 0

84926/0x712c70: sendto(0x6, 0x70000E6E4E17, 0x1) = 1 0

84911/0x7129e9: kevent(0xB, 0x0, 0x0) = 1 0

84926/0x712c70: close(0x10) = 0 0

84911/0x7129e8: kevent(0x8, 0x700003AC0DE0, 0x1) = 0 0

84911/0x7129e9: recvfrom(0x13, 0x7FE2E980B008, 0x2000) = 0 0

84926/0x712c70: close(0x11) = 0 0

84911/0x7129e8: kevent(0x8, 0x700003AC0DA0, 0x1) = 0 0

84911/0x7129e9: kevent(0xB, 0x700003B43DE0, 0x1) = 0 0

84911/0x7129e8: close(0xE) = 0 0

84926/0x712c70: kevent(0x8, 0x0, 0x0) = 1 0

84911/0x7129e8: close(0xF) = 0 0

84911/0x7129e9: close(0x13) = 0 0

84926/0x712c70: poll(0x70000E6E4E20, 0x1, 0x0) = 1 0

84911/0x7129e8: poll(0x700003AC0E20, 0x1, 0x0) = 0 0

84926/0x712c70: recvfrom(0x7, 0x70000E6E4E27, 0x1) = 1 0

84911/0x7129e8: kevent(0x8, 0x0, 0x0) = 1 0

84911/0x7129e8: poll(0x700003AC0DE0, 0x1, 0x0) = 1 0

84911/0x7129e8: recvfrom(0xD, 0x700003AC0DE7, 0x1) = 1 0

84926/0x712c70: poll(0x70000E6E4E20, 0x1, 0x0) = 0 0

84911/0x7129e8: sendto(0x9, 0x700003AC0CD7, 0x1) = 1 0

84911/0x7129e9: kevent(0xB, 0x0, 0x0) = 1 0

84911/0x7129e9: poll(0x700003B43E20, 0x1, 0x0) = 1 0

84911/0x7129e8: poll(0x700003AC0DE0, 0x1, 0x0) = 0 0

84911/0x7129e9: recvfrom(0xA, 0x700003B43E27, 0x1) = 1 0

84911/0x7129e9: sendto(0xC, 0x700003B43D97, 0x1) = 1 0

84911/0x7129e8: kevent(0x8, 0x0, 0x0) = 1 0

84911/0x7129e8: poll(0x700003AC0DE0, 0x1, 0x0) = 1 0

84911/0x7129e9: poll(0x700003B43E20, 0x1, 0x0) = 0 0

84911/0x7129e8: recvfrom(0xD, 0x700003AC0DE7, 0x1) = 1 0

84911/0x7129e8: poll(0x700003AC0DE0, 0x1, 0x0) = 0 0

84911/0x7129e8: kevent(0x8, 0x700003AC0E90, 0x1) = 0 0

84911/0x7129e8: sendto(0x6, 0x700003AC0DD7, 0x1) = 1 0

84911/0x7129e8: close(0xC) = 0 0

84911/0x7129e8: close(0xD) = 0 0

84911/0x7129e8: kevent(0x8, 0x0, 0x0) = 1 0

84911/0x7129e8: poll(0x700003AC0E20, 0x1, 0x0) = 1 0

84911/0x7129e8: recvfrom(0x7, 0x700003AC0E27, 0x1) = 1 0

84911/0x7129e8: sendto(0x3, 0x700003AC0D97, 0x1) = 1 0

84911/0x7129e8: kevent(0x8, 0x700003AC0DF0, 0x1) = 0 0

84911/0x7129df: poll(0x7FF7B2EC70E0, 0x1, 0xFFFFFFFFFFFFFFFF) = 1 0

84911/0x7129e8: poll(0x700003AC0E20, 0x1, 0x0) = 0 0

84911/0x7129e8: __disable_threadsignal(0x1, 0x0, 0x0) = 0 0

84911/0x7129df: recvfrom(0x4, 0x7FF7B2EC70E7, 0x1) = 1 0

84911/0x7129df: sendto(0x9, 0x7FF7B2EC7017, 0x1) = 1 0

84911/0x7129e9: kevent(0xB, 0x0, 0x0) = 1 0

```

84911/0x7129e9: poll(0x700003B43E20, 0x1, 0x0)      = 1 0

84911/0x7129e9: recvfrom(0xA, 0x700003B43E27, 0x1)   = 1 0

84911/0x7129e9: kevent(0xB, 0x700003B43DE0, 0x1)    = 0 0

84911/0x7129e9: poll(0x700003B43E20, 0x1, 0x0)      = 0 0

84911/0x7129e9: __disable_threadsignal(0x1, 0x0, 0x0) = 0 0

84911/0x7129e9: ulock_wake(0x1000002, 0x700003B46034, 0x0) = 0 0

84911/0x7129df: ulock_wait(0x1020002, 0x700003B46034, 0x90B) = 0 0

84911/0x7129df: close(0xB)                          = 0 0

84911/0x7129df: close(0x9)                          = 0 0

84911/0x7129df: close(0xA)                          = 0 0

84911/0x7129df: close(0x8)                          = 0 0

84911/0x7129df: close(0x6)                          = 0 0

84911/0x7129df: close(0x7)                          = 0 0

84911/0x7129df: close(0x5)                          = 0 0

84911/0x7129df: close(0x3)                          = 0 0

84911/0x7129df: close(0x4)                          = 0 0

84911/0x7129df: lseek(0x0, 0xFFFFFFFFFFFFFFFF, 0x1)  = 20657735 0

```

Вывод

В результате выполнения лабораторной работы я понял важность отслеживания системных вызовов при отладке программы.