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Факультет информационных технологий и прикладной математики

Кафедра вычислительной математики и программирования

**Лабораторная работ №1 по курсу**

**«Операционные системы»**

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Дата: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Москва, 2019.

**Задание**

При выполнении лабораторных работ 2 – 6 необходимо продемонстрировать ключевые системные вызовы, которые в них используются и то, что их использование соответствует варианту ЛР.

**Описание**

DTruss это аналог strace на linux системах, использующая DTrase для этого. Эта утилита позволяет вам отслеживать системные вызовы у запушенного процесса, либо запустить процесс и отслеживать его вызовы. С помощью данной утилиты ниже будут продемонстрированы системные вызовы, которые использовались в лабораторных работах.

**Лабораторная работа №2**

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

4839/0xcf46: thread\_selfid(0x0, 0x0, 0x0) = 53062 0

4839/0xcf46: open(".\0", 0x0, 0x1) = 3 0

4839/0xcf46: fstat64(0x3, 0x7FFEEEF96DE0, 0x0) = 0 0

4839/0xcf46: fcntl(0x3, 0x32, 0x7FFEEEF974B0) = 0 0

4839/0xcf46: close(0x3) = 0 0

4839/0xcf46: stat64("/Users/sindenis/CSinDenis/university/sem3/os/lab02\0", 0x7FFEEEF96D50, 0x0) = 0 0

4839/0xcf46: \_\_mac\_syscall(0x1072DBC5F, 0x5A, 0x7FFEEEF96FB0) = 0 0

4839/0xcf46: shared\_region\_check\_np(0x7FFEEEF96E18, 0x0, 0x0) = 0 0

4839/0xcf46: stat64("/private/var/db/dyld/dyld\_shared\_cache\_x86\_64h\0", 0x7FFEEEF96D60, 0x0) = 0 0

4839/0xcf46: csrctl(0x0, 0x7FFEEEF96B2C, 0x4) = -1 Err#1

4839/0xcf46: stat64("/Users/sindenis/CSinDenis/university/sem3/os/lab02/./calculator\0", 0x7FFEEEF974B0, 0x0) = 0 0

4839/0xcf46: getpid(0x0, 0x0, 0x0) = 4839 0

4839/0xcf46: proc\_info(0x2, 0x12E7, 0x16) = 1272 0

4839/0xcf46: stat64("/usr/lib/libSystem.B.dylib\0", 0x7FFEEEF961B0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libcache.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libcommonCrypto.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libcompiler\_rt.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libcopyfile.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libcorecrypto.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libdispatch.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libdyld.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libkeymgr.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/liblaunch.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libmacho.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libquarantine.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libremovefile.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libsystem\_asl.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libsystem\_blocks.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libsystem\_c.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libsystem\_configuration.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libsystem\_coreservices.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libsystem\_darwin.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libsystem\_dnssd.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libsystem\_info.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libsystem\_m.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libsystem\_malloc.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libsystem\_networkextension.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libsystem\_notify.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libsystem\_sandbox.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libsystem\_secinit.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libsystem\_kernel.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libsystem\_platform.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libsystem\_pthread.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libsystem\_symptoms.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libsystem\_trace.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libunwind.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/system/libxpc.dylib\0", 0x7FFEEEF95DE0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/libobjc.A.dylib\0", 0x7FFEEEF950E0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/libc++abi.dylib\0", 0x7FFEEEF947C0, 0x0) = 0 0

4839/0xcf46: stat64("/usr/lib/libc++.1.dylib\0", 0x7FFEEEF947C0, 0x0) = 0 0

4839/0xcf46: open("/dev/dtracehelper\0", 0x2, 0xFFFFFFFFEEF96F40) = 3 0

4839/0xcf46: ioctl(0x3, 0x80086804, 0x7FFEEEF96D50) = 0 0

4839/0xcf46: close(0x3) = 0 0

4839/0xcf46: access("/AppleInternal/XBS/.isChrooted\0", 0x0, 0x0) = -1 Err#2

4839/0xcf46: bsdthread\_register(0x7FFF5AE82400, 0x7FFF5AE823F0, 0x2000) = 1073742047 0

4839/0xcf46: sysctlbyname(kern.bootargs, 0xD, 0x7FFEEEF961A0, 0x7FFEEEF96190, 0x0) = 0 0

4839/0xcf46: issetugid(0x0, 0x0, 0x0) = 0 0

4839/0xcf46: ioctl(0x2, 0x4004667A, 0x7FFEEEF959A4) = 0 0

4839/0xcf46: mprotect(0x100C6F000, 0x1000, 0x0) = 0 0

4839/0xcf46: mprotect(0x100C76000, 0x1000, 0x0) = 0 0

4839/0xcf46: mprotect(0x100C77000, 0x1000, 0x0) = 0 0

4839/0xcf46: mprotect(0x100C7E000, 0x1000, 0x0) = 0 0

4839/0xcf46: mprotect(0x100C6D000, 0x90, 0x1) = 0 0

4839/0xcf46: mprotect(0x100C7F000, 0x1000, 0x1) = 0 0

4839/0xcf46: mprotect(0x100C6D000, 0x90, 0x3) = 0 0

4839/0xcf46: mprotect(0x100C6D000, 0x90, 0x1) = 0 0

4839/0xcf46: getentropy(0x7FFEEEF95AF0, 0x20, 0x0) = 0 0

4839/0xcf46: getpid(0x0, 0x0, 0x0) = 4839 0

4839/0xcf46: stat64("/AppleInternal\0", 0x7FFEEEF96610, 0x0) = -1 Err#2

4839/0xcf46: csops(0x12E7, 0x7, 0x7FFEEEF96140) = -1 Err#22

4839/0xcf46: proc\_info(0x2, 0x12E7, 0xD) = 64 0

4839/0xcf46: csops(0x12E7, 0x7, 0x7FFEEEF95980) = -1 Err#22

4839/0xcf46: pipe(0x0, 0x0, 0x0) = 3 0

4839/0xcf46: pipe(0x0, 0x0, 0x0) = 5 0

4839/0xcf46: fork() = 4840 0

4839/0xcf46: close(0x3) = 0 0

4840/0xcf47: thread\_selfid(0x0, 0x0, 0x0) = 53063 0

4839/0xcf46: close(0x6) = 0 0

4840/0xcf47: bsdthread\_register(0x7FFF5AE82400, 0x7FFF5AE823F0, 0x2000) = -1 Err#22

4839/0xcf46: getrlimit(0x1008, 0x7FFEEEF97220, 0x0) = 0 0

4839/0xcf46: fstat64(0x0, 0x7FFEEEF97208, 0x0) = 0 0

4839/0xcf46: ioctl(0x0, 0x4004667A, 0x7FFEEEF97254) = 0 0

4840/0xcf47: getpid(0x0, 0x0, 0x0) = 4840 0

4840/0xcf47: \_\_mac\_syscall(0x7FFF5AE8EA17, 0x4, 0x7FFEEEF973F8) = -1 Err#45

4840/0xcf47: csops(0x12E8, 0xB, 0x7FFEEEF97438) = -1 Err#22

4840/0xcf47: close(0x4) = 0 0

4840/0xcf47: close(0x5) = 0 0

**Лабораторная работа №3**

PID/THRD SYSCALL(args) = return

9725/0x55d5cb: thread\_selfid(0x0, 0x0, 0x0) = 5625291 0

9725/0x55d5cb: open(".\0", 0x0, 0x1) = 3 0

9725/0x55d5cb: fstat64(0x3, 0x7FFEED57ADC0, 0x0) = 0 0

9725/0x55d5cb: fcntl(0x3, 0x32, 0x7FFEED57B490) = 0 0

9725/0x55d5cb: close(0x3) = 0 0

9725/0x55d5cb: stat64("/Users/sindenis/CSinDenis/university/sem3/OperatingSystems/lab03\0", 0x7FFEED57AD30, 0x0) = 0 0

9725/0x55d5cb: \_\_mac\_syscall(0x10C527C5F, 0x5A, 0x7FFEED57AF90) = 0 0

9725/0x55d5cb: shared\_region\_check\_np(0x7FFEED57ADF8, 0x0, 0x0) = 0 0

9725/0x55d5cb: stat64("/private/var/db/dyld/dyld\_shared\_cache\_x86\_64h\0", 0x7FFEED57AD40, 0x0) = 0 0

9725/0x55d5cb: csrctl(0x0, 0x7FFEED57AB0C, 0x4) = -1 Err#1

9725/0x55d5cb: stat64("/Users/sindenis/CSinDenis/university/sem3/OperatingSystems/lab03/./filter\0", 0x7FFEED57B490, 0x0) = 0 0

9725/0x55d5cb: getpid(0x0, 0x0, 0x0) = 9725 0

9725/0x55d5cb: proc\_info(0x2, 0x25FD, 0x16) = 1272 0

9725/0x55d5cb: stat64("/usr/lib/libSystem.B.dylib\0", 0x7FFEED57A190, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libcache.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libcommonCrypto.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libcompiler\_rt.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libcopyfile.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libcorecrypto.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libdispatch.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libdyld.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libkeymgr.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/liblaunch.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libmacho.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libquarantine.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libremovefile.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libsystem\_asl.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libsystem\_blocks.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libsystem\_c.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libsystem\_configuration.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libsystem\_coreservices.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libsystem\_darwin.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libsystem\_dnssd.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libsystem\_info.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libsystem\_m.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libsystem\_malloc.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libsystem\_networkextension.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libsystem\_notify.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libsystem\_sandbox.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libsystem\_secinit.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libsystem\_kernel.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libsystem\_platform.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libsystem\_pthread.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libsystem\_symptoms.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libsystem\_trace.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libunwind.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/system/libxpc.dylib\0", 0x7FFEED579DC0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/libobjc.A.dylib\0", 0x7FFEED5790C0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/libc++abi.dylib\0", 0x7FFEED5787A0, 0x0) = 0 0

9725/0x55d5cb: stat64("/usr/lib/libc++.1.dylib\0", 0x7FFEED5787A0, 0x0) = 0 0

9725/0x55d5cb: open("/dev/dtracehelper\0", 0x2, 0xFFFFFFFFED57AF20) = 3 0

9725/0x55d5cb: ioctl(0x3, 0x80086804, 0x7FFEED57AD30) = 0 0

9725/0x55d5cb: close(0x3) = 0 0

9725/0x55d5cb: access("/AppleInternal/XBS/.isChrooted\0", 0x0, 0x0) = -1 Err#2

9725/0x55d5cb: bsdthread\_register(0x7FFF5D86C400, 0x7FFF5D86C3F0, 0x2000) = 1073742047 0

9725/0x55d5cb: sysctlbyname(kern.bootargs, 0xD, 0x7FFEED57A180, 0x7FFEED57A170, 0x0) = 0 0

9725/0x55d5cb: issetugid(0x0, 0x0, 0x0) = 0 0

9725/0x55d5cb: ioctl(0x2, 0x4004667A, 0x7FFEED579984) = 0 0

9725/0x55d5cb: mprotect(0x10268C000, 0x1000, 0x0) = 0 0

9725/0x55d5cb: mprotect(0x102693000, 0x1000, 0x0) = 0 0

9725/0x55d5cb: mprotect(0x102694000, 0x1000, 0x0) = 0 0

9725/0x55d5cb: mprotect(0x10269B000, 0x1000, 0x0) = 0 0

9725/0x55d5cb: mprotect(0x10268A000, 0x90, 0x1) = 0 0

9725/0x55d5cb: mprotect(0x10269C000, 0x1000, 0x1) = 0 0

9725/0x55d5cb: mprotect(0x10268A000, 0x90, 0x3) = 0 0

9725/0x55d5cb: mprotect(0x10268A000, 0x90, 0x1) = 0 0

9725/0x55d5cb: getentropy(0x7FFEED579AD0, 0x20, 0x0) = 0 0

9725/0x55d5cb: getpid(0x0, 0x0, 0x0) = 9725 0

9725/0x55d5cb: stat64("/AppleInternal\0", 0x7FFEED57A5F0, 0x0) = -1 Err#2

9725/0x55d5cb: csops(0x25FD, 0x7, 0x7FFEED57A120) = -1 Err#22

9725/0x55d5cb: proc\_info(0x2, 0x25FD, 0xD) = 64 0

9725/0x55d5cb: csops(0x25FD, 0x7, 0x7FFEED579960) = -1 Err#22

9725/0x55d5cb: getrlimit(0x1008, 0x7FFEED57B220, 0x0) = 0 0

9725/0x55d5cb: fstat64(0x0, 0x7FFEED57B208, 0x0) = 0 0

dtrace: error on enabled probe ID 2175 (ID 954: syscall::read\_nocancel:return): invalid kernel access in action #13 at DIF offset 68

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002000, 0x700007F15000) = 133255168 0

9725/0x55d5ce: thread\_selfid(0x0, 0x0, 0x0) = 5625294 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002010, 0x700007F98000) = 133791744 0

9725/0x55d5cf: thread\_selfid(0x0, 0x0, 0x0) = 5625295 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002020, 0x70000801B000) = 134328320 0

9725/0x55d5ce: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5d0: thread\_selfid(0x0, 0x0, 0x0) = 5625296 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002030, 0x70000809E000) = 134864896 0

9725/0x55d5cf: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5d0: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5d1: thread\_selfid(0x0, 0x0, 0x0) = 5625297 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002040, 0x700008121000) = 135401472 0

9725/0x55d5d1: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5d2: thread\_selfid(0x0, 0x0, 0x0) = 5625298 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002050, 0x7000081A4000) = 135938048 0

9725/0x55d5d2: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5d3: thread\_selfid(0x0, 0x0, 0x0) = 5625299 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002060, 0x700008227000) = 136474624 0

9725/0x55d5d3: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5d4: thread\_selfid(0x0, 0x0, 0x0) = 5625300 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002070, 0x7000082AA000) = 137011200 0

9725/0x55d5d4: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5d5: thread\_selfid(0x0, 0x0, 0x0) = 5625301 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002080, 0x70000832D000) = 137547776 0

9725/0x55d5d5: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5d6: thread\_selfid(0x0, 0x0, 0x0) = 5625302 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002090, 0x7000083B0000) = 138084352 0

9725/0x55d5d6: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5d7: thread\_selfid(0x0, 0x0, 0x0) = 5625303 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100020A0, 0x700008433000) = 138620928 0

9725/0x55d5d7: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5d8: thread\_selfid(0x0, 0x0, 0x0) = 5625304 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100020B0, 0x7000084B6000) = 139157504 0

9725/0x55d5d8: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5d9: thread\_selfid(0x0, 0x0, 0x0) = 5625305 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100020C0, 0x700008539000) = 139694080 0

9725/0x55d5d9: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5da: thread\_selfid(0x0, 0x0, 0x0) = 5625306 0

9725/0x55d5da: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100020D0, 0x7000085BC000) = 140230656 0

9725/0x55d5db: thread\_selfid(0x0, 0x0, 0x0) = 5625307 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100020E0, 0x70000863F000) = 140767232 0

9725/0x55d5db: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5dc: thread\_selfid(0x0, 0x0, 0x0) = 5625308 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100020F0, 0x7000086C2000) = 141303808 0

9725/0x55d5dc: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5dd: thread\_selfid(0x0, 0x0, 0x0) = 5625309 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002100, 0x700008745000) = 141840384 0

9725/0x55d5dd: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5de: thread\_selfid(0x0, 0x0, 0x0) = 5625310 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002110, 0x7000087C8000) = 142376960 0

9725/0x55d5de: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5df: thread\_selfid(0x0, 0x0, 0x0) = 5625311 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002120, 0x70000884B000) = 142913536 0

9725/0x55d5df: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5e0: thread\_selfid(0x0, 0x0, 0x0) = 5625312 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002130, 0x7000088CE000) = 143450112 0

9725/0x55d5e1: thread\_selfid(0x0, 0x0, 0x0) = 5625313 0

9725/0x55d5e0: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002140, 0x700008951000) = 143986688 0

9725/0x55d5e1: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5e2: thread\_selfid(0x0, 0x0, 0x0) = 5625314 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002150, 0x7000089D4000) = 144523264 0

9725/0x55d5e2: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5e3: thread\_selfid(0x0, 0x0, 0x0) = 5625315 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002160, 0x700008A57000) = 145059840 0

9725/0x55d5e3: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5e4: thread\_selfid(0x0, 0x0, 0x0) = 5625316 0

9725/0x55d5e4: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002170, 0x700008ADA000) = 145596416 0

9725/0x55d5e5: thread\_selfid(0x0, 0x0, 0x0) = 5625317 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002180, 0x700008B5D000) = 146132992 0

9725/0x55d5e5: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5e6: thread\_selfid(0x0, 0x0, 0x0) = 5625318 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002190, 0x700008BE0000) = 146669568 0

9725/0x55d5e6: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5e7: thread\_selfid(0x0, 0x0, 0x0) = 5625319 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100021A0, 0x700008C63000) = 147206144 0

9725/0x55d5e7: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5e8: thread\_selfid(0x0, 0x0, 0x0) = 5625320 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100021B0, 0x700008CE6000) = 147742720 0

9725/0x55d5e8: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5e9: thread\_selfid(0x0, 0x0, 0x0) = 5625321 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100021C0, 0x700008D69000) = 148279296 0

9725/0x55d5e9: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5ea: thread\_selfid(0x0, 0x0, 0x0) = 5625322 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100021D0, 0x700008DEC000) = 148815872 0

9725/0x55d5ea: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5eb: thread\_selfid(0x0, 0x0, 0x0) = 5625323 0

9725/0x55d5eb: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100021E0, 0x700008E6F000) = 149352448 0

9725/0x55d5ec: thread\_selfid(0x0, 0x0, 0x0) = 5625324 0

9725/0x55d5ec: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100021F0, 0x700008EF2000) = 149889024 0

9725/0x55d5ed: thread\_selfid(0x0, 0x0, 0x0) = 5625325 0

9725/0x55d5ed: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002200, 0x700008F75000) = 150425600 0

9725/0x55d5ee: thread\_selfid(0x0, 0x0, 0x0) = 5625326 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002210, 0x700008FF8000) = 150962176 0

9725/0x55d5ef: thread\_selfid(0x0, 0x0, 0x0) = 5625327 0

9725/0x55d5ee: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002220, 0x70000907B000) = 151498752 0

9725/0x55d5ef: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5f0: thread\_selfid(0x0, 0x0, 0x0) = 5625328 0

9725/0x55d5f0: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002230, 0x7000090FE000) = 152035328 0

9725/0x55d5f1: thread\_selfid(0x0, 0x0, 0x0) = 5625329 0

9725/0x55d5f1: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002240, 0x700009181000) = 152571904 0

9725/0x55d5f2: thread\_selfid(0x0, 0x0, 0x0) = 5625330 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002250, 0x700009204000) = 153108480 0

9725/0x55d5f2: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5f3: thread\_selfid(0x0, 0x0, 0x0) = 5625331 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002260, 0x700009287000) = 153645056 0

9725/0x55d5f4: thread\_selfid(0x0, 0x0, 0x0) = 5625332 0

9725/0x55d5f3: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5f4: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002270, 0x70000930A000) = 154181632 0

9725/0x55d5f5: thread\_selfid(0x0, 0x0, 0x0) = 5625333 0

9725/0x55d5f5: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002280, 0x70000938D000) = 154718208 0

9725/0x55d5f6: thread\_selfid(0x0, 0x0, 0x0) = 5625334 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002290, 0x700009410000) = 155254784 0

9725/0x55d5f6: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5f7: thread\_selfid(0x0, 0x0, 0x0) = 5625335 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100022A0, 0x700009493000) = 155791360 0

9725/0x55d5f7: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5f8: thread\_selfid(0x0, 0x0, 0x0) = 5625336 0

9725/0x55d5f8: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100022B0, 0x700009516000) = 156327936 0

9725/0x55d5f9: thread\_selfid(0x0, 0x0, 0x0) = 5625337 0

9725/0x55d5f9: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100022C0, 0x700009599000) = 156864512 0

9725/0x55d5fa: thread\_selfid(0x0, 0x0, 0x0) = 5625338 0

9725/0x55d5fa: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100022D0, 0x70000961C000) = 157401088 0

9725/0x55d5fb: thread\_selfid(0x0, 0x0, 0x0) = 5625339 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100022E0, 0x70000969F000) = 157937664 0

9725/0x55d5fb: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5fc: thread\_selfid(0x0, 0x0, 0x0) = 5625340 0

9725/0x55d5fc: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100022F0, 0x700009722000) = 158474240 0

9725/0x55d5fd: thread\_selfid(0x0, 0x0, 0x0) = 5625341 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002300, 0x7000097A5000) = 159010816 0

9725/0x55d5fd: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5fe: thread\_selfid(0x0, 0x0, 0x0) = 5625342 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002310, 0x700009828000) = 159547392 0

9725/0x55d5fe: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5ff: thread\_selfid(0x0, 0x0, 0x0) = 5625343 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002320, 0x7000098AB000) = 160083968 0

9725/0x55d5ff: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d600: thread\_selfid(0x0, 0x0, 0x0) = 5625344 0

9725/0x55d600: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002330, 0x70000992E000) = 160620544 0

9725/0x55d601: thread\_selfid(0x0, 0x0, 0x0) = 5625345 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002340, 0x7000099B1000) = 161157120 0

9725/0x55d601: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d602: thread\_selfid(0x0, 0x0, 0x0) = 5625346 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002350, 0x700009A34000) = 161693696 0

9725/0x55d603: thread\_selfid(0x0, 0x0, 0x0) = 5625347 0

9725/0x55d602: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d603: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002360, 0x700009AB7000) = 162230272 0

9725/0x55d604: thread\_selfid(0x0, 0x0, 0x0) = 5625348 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002370, 0x700009B3A000) = 162766848 0

9725/0x55d604: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d605: thread\_selfid(0x0, 0x0, 0x0) = 5625349 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002380, 0x700009BBD000) = 163303424 0

9725/0x55d605: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d606: thread\_selfid(0x0, 0x0, 0x0) = 5625350 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002390, 0x700009C40000) = 163840000 0

9725/0x55d606: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d607: thread\_selfid(0x0, 0x0, 0x0) = 5625351 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100023A0, 0x700009CC3000) = 164376576 0

9725/0x55d607: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d608: thread\_selfid(0x0, 0x0, 0x0) = 5625352 0

9725/0x55d608: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100023B0, 0x700009D46000) = 164913152 0

9725/0x55d609: thread\_selfid(0x0, 0x0, 0x0) = 5625353 0

9725/0x55d609: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100023C0, 0x700009DC9000) = 165449728 0

9725/0x55d60a: thread\_selfid(0x0, 0x0, 0x0) = 5625354 0

9725/0x55d60a: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100023D0, 0x700009E4C000) = 165986304 0

9725/0x55d60b: thread\_selfid(0x0, 0x0, 0x0) = 5625355 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100023E0, 0x700009ECF000) = 166522880 0

9725/0x55d60b: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d60c: thread\_selfid(0x0, 0x0, 0x0) = 5625356 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100023F0, 0x700009F52000) = 167059456 0

9725/0x55d60c: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d60d: thread\_selfid(0x0, 0x0, 0x0) = 5625357 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002400, 0x700009FD5000) = 167596032 0

9725/0x55d60d: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d60e: thread\_selfid(0x0, 0x0, 0x0) = 5625358 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002410, 0x70000A058000) = 168132608 0

9725/0x55d60e: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d60f: thread\_selfid(0x0, 0x0, 0x0) = 5625359 0

9725/0x55d60f: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002420, 0x70000A0DB000) = 168669184 0

9725/0x55d610: thread\_selfid(0x0, 0x0, 0x0) = 5625360 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002430, 0x70000A15E000) = 169205760 0

9725/0x55d610: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d611: thread\_selfid(0x0, 0x0, 0x0) = 5625361 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002440, 0x70000A1E1000) = 169742336 0

9725/0x55d611: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d612: thread\_selfid(0x0, 0x0, 0x0) = 5625362 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002450, 0x70000A264000) = 170278912 0

9725/0x55d612: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d613: thread\_selfid(0x0, 0x0, 0x0) = 5625363 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002460, 0x70000A2E7000) = 170815488 0

9725/0x55d613: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d614: thread\_selfid(0x0, 0x0, 0x0) = 5625364 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002470, 0x70000A36A000) = 171352064 0

9725/0x55d614: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d615: thread\_selfid(0x0, 0x0, 0x0) = 5625365 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002480, 0x70000A3ED000) = 171888640 0

9725/0x55d615: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d616: thread\_selfid(0x0, 0x0, 0x0) = 5625366 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002490, 0x70000A470000) = 172425216 0

9725/0x55d616: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d617: thread\_selfid(0x0, 0x0, 0x0) = 5625367 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100024A0, 0x70000A4F3000) = 172961792 0

9725/0x55d617: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d618: thread\_selfid(0x0, 0x0, 0x0) = 5625368 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100024B0, 0x70000A576000) = 173498368 0

9725/0x55d618: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d619: thread\_selfid(0x0, 0x0, 0x0) = 5625369 0

9725/0x55d619: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100024C0, 0x70000A5F9000) = 174034944 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100024D0, 0x70000A67C000) = 174571520 0

9725/0x55d61a: thread\_selfid(0x0, 0x0, 0x0) = 5625370 0

9725/0x55d61a: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100024E0, 0x70000A6FF000) = 175108096 0

9725/0x55d61b: thread\_selfid(0x0, 0x0, 0x0) = 5625371 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100024F0, 0x70000A782000) = 175644672 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002500, 0x70000A805000) = 176181248 0

9725/0x55d61b: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d61c: thread\_selfid(0x0, 0x0, 0x0) = 5625372 0

9725/0x55d61c: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d61d: thread\_selfid(0x0, 0x0, 0x0) = 5625373 0

9725/0x55d61d: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d61e: thread\_selfid(0x0, 0x0, 0x0) = 5625374 0

9725/0x55d61e: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002510, 0x70000A888000) = 176717824 0

9725/0x55d61f: thread\_selfid(0x0, 0x0, 0x0) = 5625375 0

9725/0x55d61f: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002520, 0x70000A90B000) = 177254400 0

9725/0x55d620: thread\_selfid(0x0, 0x0, 0x0) = 5625376 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002530, 0x70000A98E000) = 177790976 0

9725/0x55d620: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d621: thread\_selfid(0x0, 0x0, 0x0) = 5625377 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002540, 0x70000AA11000) = 178327552 0

9725/0x55d621: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d622: thread\_selfid(0x0, 0x0, 0x0) = 5625378 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002550, 0x70000AA94000) = 178864128 0

9725/0x55d622: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d623: thread\_selfid(0x0, 0x0, 0x0) = 5625379 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002560, 0x70000AB17000) = 179400704 0

9725/0x55d623: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d624: thread\_selfid(0x0, 0x0, 0x0) = 5625380 0

9725/0x55d624: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002570, 0x70000AB9A000) = 179937280 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002580, 0x70000AC1D000) = 180473856 0

9725/0x55d625: thread\_selfid(0x0, 0x0, 0x0) = 5625381 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002590, 0x70000ACA0000) = 181010432 0

9725/0x55d626: thread\_selfid(0x0, 0x0, 0x0) = 5625382 0

9725/0x55d625: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d627: thread\_selfid(0x0, 0x0, 0x0) = 5625383 0

9725/0x55d626: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100025A0, 0x70000AD23000) = 181547008 0

9725/0x55d627: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d628: thread\_selfid(0x0, 0x0, 0x0) = 5625384 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100025B0, 0x70000ADA6000) = 182083584 0

9725/0x55d628: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100025C0, 0x70000AE29000) = 182620160 0

9725/0x55d629: thread\_selfid(0x0, 0x0, 0x0) = 5625385 0

9725/0x55d62a: thread\_selfid(0x0, 0x0, 0x0) = 5625386 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100025D0, 0x70000AEAC000) = 183156736 0

9725/0x55d62a: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d629: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100025E0, 0x70000AF2F000) = 183693312 0

9725/0x55d62c: thread\_selfid(0x0, 0x0, 0x0) = 5625388 0

9725/0x55d62b: thread\_selfid(0x0, 0x0, 0x0) = 5625387 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F99100025F0, 0x70000AFB2000) = 184229888 0

9725/0x55d62c: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d62b: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002600, 0x70000B035000) = 184766464 0

9725/0x55d62d: thread\_selfid(0x0, 0x0, 0x0) = 5625389 0

9725/0x55d62e: thread\_selfid(0x0, 0x0, 0x0) = 5625390 0

9725/0x55d62d: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002610, 0x70000B0B8000) = 185303040 0

9725/0x55d62e: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d62f: thread\_selfid(0x0, 0x0, 0x0) = 5625391 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002620, 0x70000B13B000) = 185839616 0

9725/0x55d630: thread\_selfid(0x0, 0x0, 0x0) = 5625392 0

9725/0x55d5cb: bsdthread\_create(0x102685BB0, 0x7F9910002630, 0x70000B1BE000) = 186376192 0

9725/0x55d630: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d62f: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d631: thread\_selfid(0x0, 0x0, 0x0) = 5625393 0

9725/0x55d631: \_\_disable\_threadsignal(0x1, 0x0, 0x0) = 0 0

9725/0x55d5cb: fstat64(0x1, 0x7FFEED57B5B8, 0x0) = 0 0

9725/0x55d5cb: ioctl(0x1, 0x4004667A, 0x7FFEED57B604) = 0 0

5625393 – 5625294 + 1 = 100

**Лабораторная работа №4**

28084/0xe0f92: thread\_selfid(0x0, 0x0, 0x0) = 921490 0

28084/0xe0f92: open(".\0", 0x0, 0x1) = 3 0

28084/0xe0f92: fstat64(0x3, 0x7FFEE6873DD0, 0x0) = 0 0

28084/0xe0f92: fcntl(0x3, 0x32, 0x7FFEE68744A0) = 0 0

28084/0xe0f92: close(0x3) = 0 0

28084/0xe0f92: stat64("/Users/sindenis/CSinDenis/university/sem3/OperatingSystems/lab04\0", 0x7FFEE6873D40, 0x0) = 0 0

28084/0xe0f92: \_\_mac\_syscall(0x115CBAC5F, 0x5A, 0x7FFEE6873FA0) = 0 0

28084/0xe0f92: shared\_region\_check\_np(0x7FFEE6873E08, 0x0, 0x0) = 0 0

28084/0xe0f92: stat64("/private/var/db/dyld/dyld\_shared\_cache\_x86\_64h\0", 0x7FFEE6873D50, 0x0) = 0 0

28084/0xe0f92: csrctl(0x0, 0x7FFEE6873B1C, 0x4) = -1 Err#1

28084/0xe0f92: stat64("/Users/sindenis/CSinDenis/university/sem3/OperatingSystems/lab04/./calc\0", 0x7FFEE68744A0, 0x0) = 0 0

28084/0xe0f92: getpid(0x0, 0x0, 0x0) = 28084 0

28084/0xe0f92: proc\_info(0x2, 0x6DB4, 0x16) = 1272 0

28084/0xe0f92: stat64("/usr/lib/libSystem.B.dylib\0", 0x7FFEE68731A0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libcache.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libcommonCrypto.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libcompiler\_rt.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libcopyfile.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libcorecrypto.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libdispatch.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libdyld.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libkeymgr.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/liblaunch.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libmacho.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libquarantine.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libremovefile.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libsystem\_asl.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libsystem\_blocks.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libsystem\_c.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libsystem\_configuration.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libsystem\_coreservices.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libsystem\_darwin.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libsystem\_dnssd.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libsystem\_info.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libsystem\_m.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libsystem\_malloc.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libsystem\_networkextension.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libsystem\_notify.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libsystem\_sandbox.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libsystem\_secinit.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libsystem\_kernel.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libsystem\_platform.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libsystem\_pthread.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libsystem\_symptoms.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libsystem\_trace.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libunwind.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/system/libxpc.dylib\0", 0x7FFEE6872DD0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/libobjc.A.dylib\0", 0x7FFEE68720D0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/libc++abi.dylib\0", 0x7FFEE68717B0, 0x0) = 0 0

28084/0xe0f92: stat64("/usr/lib/libc++.1.dylib\0", 0x7FFEE68717B0, 0x0) = 0 0

28084/0xe0f92: open("/dev/dtracehelper\0", 0x2, 0xFFFFFFFFE6873F30) = 3 0

28084/0xe0f92: ioctl(0x3, 0x80086804, 0x7FFEE6873D40) = 0 0

28084/0xe0f92: close(0x3) = 0 0

28084/0xe0f92: access("/AppleInternal/XBS/.isChrooted\0", 0x0, 0x0) = -1 Err#2

28084/0xe0f92: bsdthread\_register(0x7FFF692A1400, 0x7FFF692A13F0, 0x2000) = 1073742047 0

28084/0xe0f92: sysctlbyname(kern.bootargs, 0xD, 0x7FFEE6873190, 0x7FFEE6873180, 0x0) = 0 0

28084/0xe0f92: issetugid(0x0, 0x0, 0x0) = 0 0

28084/0xe0f92: ioctl(0x2, 0x4004667A, 0x7FFEE6872994) = 0 0

28084/0xe0f92: mprotect(0x109392000, 0x1000, 0x0) = 0 0

28084/0xe0f92: mprotect(0x109399000, 0x1000, 0x0) = 0 0

28084/0xe0f92: mprotect(0x10939A000, 0x1000, 0x0) = 0 0

28084/0xe0f92: mprotect(0x1093A1000, 0x1000, 0x0) = 0 0

28084/0xe0f92: mprotect(0x109390000, 0x90, 0x1) = 0 0

28084/0xe0f92: mprotect(0x1093A2000, 0x1000, 0x1) = 0 0

28084/0xe0f92: mprotect(0x109390000, 0x90, 0x3) = 0 0

28084/0xe0f92: mprotect(0x109390000, 0x90, 0x1) = 0 0

28084/0xe0f92: getentropy(0x7FFEE6872AE0, 0x20, 0x0) = 0 0

28084/0xe0f92: getpid(0x0, 0x0, 0x0) = 28084 0

28084/0xe0f92: stat64("/AppleInternal\0", 0x7FFEE6873600, 0x0) = -1 Err#2

28084/0xe0f92: csops(0x6DB4, 0x7, 0x7FFEE6873130) = -1 Err#22

28084/0xe0f92: proc\_info(0x2, 0x6DB4, 0xD) = 64 0

28084/0xe0f92: csops(0x6DB4, 0x7, 0x7FFEE6872970) = -1 Err#22

28084/0xe0f92: fstatat64(0xFFFFFFFFFFFFFFFE, 0x7FF2E0C00620, 0x7FFEE6874370) = 0 0

28084/0xe0f92: openat\_nocancel(0xFFFFFFFFFFFFFFFE, 0x7FF2E0C00620, 0xA02) = 3 0

28084/0xe0f92: unlink("/tmp/tmpFile.NrO6EB\0", 0x0, 0x0) = 0 0

28084/0xe0f92: mmap(0x0, 0xD, 0x3, 0x1, 0x3, 0x0) = 0x1093A3000 0

28084/0xe0f92: sem\_open(0x10938BF42, 0x200, 0x309) = 4 0

28084/0xe0f92: sem\_open(0x10938BF4C, 0x200, 0x309) = 5 0

28084/0xe0f92: sem\_unlink(0x10938BF42, 0x0, 0x0) = 0 0

28084/0xe0f92: sem\_unlink(0x10938BF4C, 0x0, 0x0) = 0 0

28084/0xe0f92: fork() = 28085 0

28085/0xe0f96: thread\_selfid(0x0, 0x0, 0x0) = 921494 0

28085/0xe0f96: bsdthread\_register(0x7FFF692A1400, 0x7FFF692A13F0, 0x2000) = -1 Err#22

28084/0xe0f92: getrlimit(0x1008, 0x7FFEE68745C0, 0x0) = 0 0

28084/0xe0f92: fstat64(0x1, 0x7FFEE68745A8, 0x0) = 0 0

28084/0xe0f92: ioctl(0x1, 0x4004667A, 0x7FFEE68745F4) = 0 0

28084/0xe0f92: fstat64(0x0, 0x7FFEE68741D8, 0x0) = 0 0

28084/0xe0f92: ioctl(0x0, 0x4004667A, 0x7FFEE6874224) = 0 0

28085/0xe0f96: getpid(0x0, 0x0, 0x0) = 28085 0

28085/0xe0f96: \_\_mac\_syscall(0x7FFF692ADA17, 0x4, 0x7FFEE68743E8) = -1 Err#45

28085/0xe0f96: csops(0x6DB5, 0xB, 0x7FFEE6874428) = -1 Err#22

28084/0xe0f92: sem\_post(0x4, 0x0, 0x0) = 0 0

28085/0xe0f96: sem\_wait(0x4, 0x0, 0x0) = 0 0

28085/0xe0f96: sem\_post(0x5, 0x0, 0x0) = 0 0

28084/0xe0f92: sem\_wait(0x5, 0x0, 0x0) = 0 0

28084/0xe0f92: sem\_post(0x4, 0x0, 0x0) = 0 0

28085/0xe0f96: sem\_wait(0x4, 0x0, 0x0) = 0 0

28085/0xe0f96: sem\_post(0x5, 0x0, 0x0) = 0 0

28084/0xe0f92: sem\_wait(0x5, 0x0, 0x0) = 0 0

28084/0xe0f92: sem\_post(0x4, 0x0, 0x0) = 0 0

28085/0xe0f96: sem\_wait(0x4, 0x0, 0x0) = 0 0

28085/0xe0f96: sem\_post(0x5, 0x0, 0x0) = 0 0

28084/0xe0f92: sem\_wait(0x5, 0x0, 0x0) = 0 0

28084/0xe0f92: sem\_post(0x4, 0x0, 0x0) = 0 0

28085/0xe0f96: sem\_wait(0x4, 0x0, 0x0) = 0 0

28085/0xe0f96: sem\_post(0x5, 0x0, 0x0) = 0 0

28084/0xe0f92: sem\_wait(0x5, 0x0, 0x0) = 0 0

28084/0xe0f92: sem\_post(0x4, 0x0, 0x0) = 0 0

28085/0xe0f96: sem\_wait(0x4, 0x0, 0x0) = 0 0

28085/0xe0f96: sem\_post(0x5, 0x0, 0x0) = 0 0

28084/0xe0f92: sem\_wait(0x5, 0x0, 0x0) = 0 0

28084/0xe0f92: sem\_post(0x4, 0x0, 0x0) = 0 0

28085/0xe0f96: sem\_wait(0x4, 0x0, 0x0) = 0 0

28085/0xe0f96: sem\_post(0x5, 0x0, 0x0) = 0 0

28084/0xe0f92: sem\_wait(0x5, 0x0, 0x0) = 0 0

28084/0xe0f92: sem\_post(0x4, 0x0, 0x0) = 0 0

28085/0xe0f96: sem\_wait(0x4, 0x0, 0x0) = 0 0

28085/0xe0f96: sem\_post(0x5, 0x0, 0x0) = 0 0

28084/0xe0f92: sem\_wait(0x5, 0x0, 0x0) = 0 0

28084/0xe0f92: sem\_post(0x4, 0x0, 0x0) = 0 0

28085/0xe0f96: sem\_wait(0x4, 0x0, 0x0) = 0 0

28085/0xe0f96: sem\_close(0x4, 0x0, 0x0) = 0 0

28084/0xe0f92: sem\_close(0x4, 0x0, 0x0) = 0 0

28084/0xe0f92: sem\_close(0x5, 0x0, 0x0) = 0 0

28085/0xe0f96: sem\_close(0x5, 0x0, 0x0) = 0 0

28084/0xe0f92: close(0x3) = 0 0

28085/0xe0f96: munmap(0x1093A3000, 0xD) = 0 0

28085/0xe0f96: close(0x3) = 0 0

**Лабораторная работа №5**

**Трейсы dtruss для ct\_main**

PID/THRD SYSCALL(args) = return

42258/0xe8e61: thread\_selfid(0x0, 0x0, 0x0) = 953953 0

42258/0xe8e61: open(".\0", 0x0, 0x1) = 3 0

42258/0xe8e61: fstat64(0x3, 0x7FFEEE0A8EB0, 0x0) = 0 0

42258/0xe8e61: fcntl(0x3, 0x32, 0x7FFEEE0A9580) = 0 0

42258/0xe8e61: close(0x3) = 0 0

42258/0xe8e61: stat64("/Users/sindenis/CSinDenis/university/sem3/OperatingSystems/lab05/c\0", 0x7FFEEE0A8E20, 0x0) = 0 0

42258/0xe8e61: \_\_mac\_syscall(0x10DED2C5F, 0x5A, 0x7FFEEE0A9080) = 0 0

42258/0xe8e61: shared\_region\_check\_np(0x7FFEEE0A8EE8, 0x0, 0x0) = 0 0

42258/0xe8e61: stat64("/private/var/db/dyld/dyld\_shared\_cache\_x86\_64h\0", 0x7FFEEE0A8E30, 0x0) = 0 0

42258/0xe8e61: csrctl(0x0, 0x7FFEEE0A8BFC, 0x4) = -1 Err#1

42258/0xe8e61: stat64("/Users/sindenis/CSinDenis/university/sem3/OperatingSystems/lab05/c/./ct\_main\0", 0x7FFEEE0A9580, 0x0) = 0 0

42258/0xe8e61: getpid(0x0, 0x0, 0x0) = 42258 0

42258/0xe8e61: proc\_info(0x2, 0xA512, 0x16) = 1272 0

42258/0xe8e61: stat64("libstr\_array.so\0", 0x7FFEEE0A7E30, 0x0) = 0 0

42258/0xe8e61: stat64("libstr\_array.so\0", 0x7FFEEE0A8270, 0x0) = 0 0

42258/0xe8e61: open("libstr\_array.so\0", 0x0, 0x0) = 3 0

dtrace: error on enabled probe ID 2189 (ID 468: syscall::pread:return): invalid kernel access in action #13 at DIF offset 20

42258/0xe8e61: fcntl(0x3, 0x62, 0x7FFEEE09FA00) = 0 0

42258/0xe8e61: mmap(0x101B5E000, 0x1000, 0x5, 0x12, 0x3, 0x0) = 0x101B5E000 0

42258/0xe8e61: mmap(0x101B5F000, 0x1000, 0x3, 0x12, 0x3, 0x1000) = 0x101B5F000 0

42258/0xe8e61: mmap(0x101B60000, 0x218, 0x1, 0x12, 0x3, 0x2000) = 0x101B60000 0

42258/0xe8e61: fcntl(0x3, 0x32, 0x7FFEEE09FC90) = 0 0

42258/0xe8e61: fcntl(0x3, 0x2C, 0x7FFEEE09FC00) = 0 0

42258/0xe8e61: close(0x3) = 0 0

42258/0xe8e61: stat64("/usr/lib/libSystem.B.dylib\0", 0x7FFEEE0A8270, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libcache.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libcommonCrypto.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libcompiler\_rt.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libcopyfile.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libcorecrypto.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libdispatch.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libdyld.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libkeymgr.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/liblaunch.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libmacho.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libquarantine.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libremovefile.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libsystem\_asl.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libsystem\_blocks.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libsystem\_c.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libsystem\_configuration.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libsystem\_coreservices.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libsystem\_darwin.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libsystem\_dnssd.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libsystem\_info.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libsystem\_m.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libsystem\_malloc.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libsystem\_networkextension.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libsystem\_notify.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libsystem\_sandbox.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libsystem\_secinit.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libsystem\_kernel.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libsystem\_platform.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libsystem\_pthread.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libsystem\_symptoms.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libsystem\_trace.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libunwind.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/system/libxpc.dylib\0", 0x7FFEEE0A7DD0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/libobjc.A.dylib\0", 0x7FFEEE0A70D0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/libc++abi.dylib\0", 0x7FFEEE0A67B0, 0x0) = 0 0

42258/0xe8e61: stat64("/usr/lib/libc++.1.dylib\0", 0x7FFEEE0A67B0, 0x0) = 0 0

42258/0xe8e61: open("/dev/dtracehelper\0", 0x2, 0xFFFFFFFFEE0A9010) = 3 0

42258/0xe8e61: ioctl(0x3, 0x80086804, 0x7FFEEE0A8E20) = 0 0

42258/0xe8e61: close(0x3) = 0 0

42258/0xe8e61: access("/AppleInternal/XBS/.isChrooted\0", 0x0, 0x0) = -1 Err#2

42258/0xe8e61: bsdthread\_register(0x7FFF60845400, 0x7FFF608453F0, 0x2000) = 1073742047 0

42258/0xe8e61: sysctlbyname(kern.bootargs, 0xD, 0x7FFEEE0A81E0, 0x7FFEEE0A81D0, 0x0) = 0 0

42258/0xe8e61: issetugid(0x0, 0x0, 0x0) = 0 0

42258/0xe8e61: ioctl(0x2, 0x4004667A, 0x7FFEEE0A79B4) = 0 0

42258/0xe8e61: mprotect(0x101B61000, 0x1000, 0x0) = 0 0

42258/0xe8e61: mprotect(0x101B68000, 0x1000, 0x0) = 0 0

42258/0xe8e61: mprotect(0x101B69000, 0x1000, 0x0) = 0 0

42258/0xe8e61: mprotect(0x101B70000, 0x1000, 0x0) = 0 0

42258/0xe8e61: mprotect(0x101B5B000, 0x90, 0x1) = 0 0

42258/0xe8e61: mprotect(0x101B5D000, 0x1000, 0x1) = 0 0

42258/0xe8e61: mprotect(0x101B5B000, 0x90, 0x3) = 0 0

42258/0xe8e61: mprotect(0x101B5B000, 0x90, 0x1) = 0 0

42258/0xe8e61: getentropy(0x7FFEEE0A7B00, 0x20, 0x0) = 0 0

42258/0xe8e61: getpid(0x0, 0x0, 0x0) = 42258 0

42258/0xe8e61: stat64("/AppleInternal\0", 0x7FFEEE0A8650, 0x0) = -1 Err#2

42258/0xe8e61: csops(0xA512, 0x7, 0x7FFEEE0A8180) = -1 Err#22

42258/0xe8e61: proc\_info(0x2, 0xA512, 0xD) = 64 0

42258/0xe8e61: csops(0xA512, 0x7, 0x7FFEEE0A79C0) = -1 Err#22

42258/0xe8e61: getrlimit(0x1008, 0x7FFEEE0A9700, 0x0) = 0 0

42258/0xe8e61: fstat64(0x1, 0x7FFEEE0A96E8, 0x0) = 0 0

42258/0xe8e61: ioctl(0x1, 0x4004667A, 0x7FFEEE0A9734) = 0 0

**Трейсы dtruss для rt\_main**

PID/THRD SYSCALL(args) = return

42321/0xe91bc: thread\_selfid(0x0, 0x0, 0x0) = 954812 0

42321/0xe91bc: open(".\0", 0x0, 0x1) = 3 0

42321/0xe91bc: fstat64(0x3, 0x7FFEE177AEB0, 0x0) = 0 0

42321/0xe91bc: fcntl(0x3, 0x32, 0x7FFEE177B580) = 0 0

42321/0xe91bc: close(0x3) = 0 0

42321/0xe91bc: stat64("/Users/sindenis/CSinDenis/university/sem3/OperatingSystems/lab05/c\0", 0x7FFEE177AE20, 0x0) = 0 0

42321/0xe91bc: \_\_mac\_syscall(0x10F672C5F, 0x5A, 0x7FFEE177B080) = 0 0

42321/0xe91bc: shared\_region\_check\_np(0x7FFEE177AEE8, 0x0, 0x0) = 0 0

42321/0xe91bc: stat64("/private/var/db/dyld/dyld\_shared\_cache\_x86\_64h\0", 0x7FFEE177AE30, 0x0) = 0 0

42321/0xe91bc: csrctl(0x0, 0x7FFEE177ABFC, 0x4) = -1 Err#1

42321/0xe91bc: stat64("/Users/sindenis/CSinDenis/university/sem3/OperatingSystems/lab05/c/./rt\_main\0", 0x7FFEE177B580, 0x0) = 0 0

42321/0xe91bc: getpid(0x0, 0x0, 0x0) = 42321 0

42321/0xe91bc: proc\_info(0x2, 0xA551, 0x16) = 1272 0

42321/0xe91bc: stat64("/usr/lib/libSystem.B.dylib\0", 0x7FFEE177A280, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libcache.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libcommonCrypto.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libcompiler\_rt.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libcopyfile.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libcorecrypto.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libdispatch.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libdyld.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libkeymgr.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/liblaunch.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libmacho.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libquarantine.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libremovefile.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libsystem\_asl.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libsystem\_blocks.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libsystem\_c.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libsystem\_configuration.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libsystem\_coreservices.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libsystem\_darwin.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libsystem\_dnssd.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libsystem\_info.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libsystem\_m.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libsystem\_malloc.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libsystem\_networkextension.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libsystem\_notify.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libsystem\_sandbox.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libsystem\_secinit.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libsystem\_kernel.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libsystem\_platform.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libsystem\_pthread.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libsystem\_symptoms.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libsystem\_trace.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libunwind.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/system/libxpc.dylib\0", 0x7FFEE1779EB0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/libobjc.A.dylib\0", 0x7FFEE17791B0, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/libc++abi.dylib\0", 0x7FFEE1778890, 0x0) = 0 0

42321/0xe91bc: stat64("/usr/lib/libc++.1.dylib\0", 0x7FFEE1778890, 0x0) = 0 0

42321/0xe91bc: open("/dev/dtracehelper\0", 0x2, 0xFFFFFFFFE177B010) = 3 0

42321/0xe91bc: ioctl(0x3, 0x80086804, 0x7FFEE177AE20) = 0 0

42321/0xe91bc: close(0x3) = 0 0

42321/0xe91bc: access("/AppleInternal/XBS/.isChrooted\0", 0x0, 0x0) = -1 Err#2

42321/0xe91bc: bsdthread\_register(0x7FFF60845400, 0x7FFF608453F0, 0x2000) = 1073742047 0

42321/0xe91bc: sysctlbyname(kern.bootargs, 0xD, 0x7FFEE177A270, 0x7FFEE177A260, 0x0) = 0 0

42321/0xe91bc: issetugid(0x0, 0x0, 0x0) = 0 0

42321/0xe91bc: ioctl(0x2, 0x4004667A, 0x7FFEE1779A74) = 0 0

42321/0xe91bc: mprotect(0x10E48B000, 0x1000, 0x0) = 0 0

42321/0xe91bc: mprotect(0x10E492000, 0x1000, 0x0) = 0 0

42321/0xe91bc: mprotect(0x10E493000, 0x1000, 0x0) = 0 0

42321/0xe91bc: mprotect(0x10E49A000, 0x1000, 0x0) = 0 0

42321/0xe91bc: mprotect(0x10E489000, 0x90, 0x1) = 0 0

42321/0xe91bc: mprotect(0x10E49B000, 0x1000, 0x1) = 0 0

42321/0xe91bc: mprotect(0x10E489000, 0x90, 0x3) = 0 0

42321/0xe91bc: mprotect(0x10E489000, 0x90, 0x1) = 0 0

42321/0xe91bc: getentropy(0x7FFEE1779BC0, 0x20, 0x0) = 0 0

42321/0xe91bc: getpid(0x0, 0x0, 0x0) = 42321 0

42321/0xe91bc: stat64("/AppleInternal\0", 0x7FFEE177A6E0, 0x0) = -1 Err#2

42321/0xe91bc: csops(0xA551, 0x7, 0x7FFEE177A210) = -1 Err#22

42321/0xe91bc: proc\_info(0x2, 0xA551, 0xD) = 64 0

42321/0xe91bc: csops(0xA551, 0x7, 0x7FFEE1779A50) = -1 Err#22

42321/0xe91bc: stat64("libstr\_array.so\0", 0x7FFEE177A540, 0x0) = 0 0

42321/0xe91bc: stat64("libstr\_array.so\0", 0x7FFEE177A980, 0x0) = 0 0

42321/0xe91bc: open("libstr\_array.so\0", 0x0, 0x0) = 3 0

42321/0xe91bc: fcntl(0x3, 0x62, 0x7FFEE1772110) = 0 0

42321/0xe91bc: mmap(0x10E49C000, 0x1000, 0x5, 0x12, 0x3, 0x0) = 0x10E49C000 0

42321/0xe91bc: mmap(0x10E49D000, 0x1000, 0x3, 0x12, 0x3, 0x1000) = 0x10E49D000 0

42321/0xe91bc: mmap(0x10E49E000, 0x218, 0x1, 0x12, 0x3, 0x2000) = 0x10E49E000 0

42321/0xe91bc: fcntl(0x3, 0x32, 0x7FFEE17723A0) = 0 0

42321/0xe91bc: close(0x3) = 0 0

42321/0xe91bc: getrlimit(0x1008, 0x7FFEE177B6A0, 0x0) = 0 0

42321/0xe91bc: fstat64(0x1, 0x7FFEE177B688, 0x0) = 0 0

**Лабораторная работа №6**

CALL COUNT

access 1

bind 1

connect\_nocancel 1

csrctl 1

getentropy 1

getrlimit 1

issetugid 1

kevent\_id 1

kevent\_qos 1

listen 1

open\_nocancel 1

pread 1

shared\_region\_check\_np 1

shm\_open 1

sigaction 1

sysctlbyname 1

\_\_disable\_threadsignal 2

\_\_pthread\_sigmask 2

bsdthread\_ctl 2

bsdthread\_terminate 2

fcntl\_nocancel 2

read\_nocancel 2

sysctl 2

fstat64 3

ioctl 3

psynch\_mutexdrop 3

psynch\_mutexwait 3

mmap 4

open 4

proc\_info 4

bsdthread\_create 5

workq\_kernreturn 7

mprotect 8

accept 10

execve 10

fork 10

psynch\_cvsignal 10

psynch\_cvwait 10

\_\_mac\_syscall 11

bsdthread\_register 11

ulock\_wait 11

ulock\_wake 11

csops 12

getpid 12

write\_nocancel 16

thread\_selfid 17

connect 24

getsockopt 24

sendmsg\_nocancel 25

socket 26

kqueue 27

getsockname 36

stat64 43

getpeername 44

sendto\_nocancel 50

select\_nocancel 51

socketpair 58

close\_nocancel 75

recvfrom\_nocancel 76

close 85

setsockopt 97

fcntl 353

sendto 469

recvfrom 598

\_\_semwait\_signal 690

kevent 1147

poll 3764