Московский Авиационный Институт

(Национальный Исследовательский Университет)

Институт №8 “Компьютерные науки и прикладная математика”

Кафедра №806 “Вычислительная математика и программирование”

**Лабораторная работа №5-7 по курсу**

**«Операционные системы»**

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**Постановка задачи**

**Вариант 45.**

Топология 4, набор команд 2, проверка доступности узла 2.

**Общий метод и алгоритм решения**

Программа состоит из нескольких компонентов, включая вычислительные, управляющие узлы и структуру клиент-серверной архитектуры. При создании нового вычислительного узла, который будет добавлен в дерево, будет запущен новый процесс. Взаимодействие между узлами будет осуществляться с использованием брокера сообщений, в данном случае - zero message queue. Будет разработан интерфейс командной строки для интерактивного общения с пользователем. При удалении узла будут также удалены все его потомки.

**Код программы**

**ze\_mes\_queue.h**

#pragma once

#include <zmq.hpp>

#include <iostream>

#include <string>

const int MAIN\_PORT = 4040;

void send\_message(zmq::socket\_t &socket, const std::string &msg) {

zmq::message\_t message(msg.size());

memcpy(message.data(), msg.c\_str(), msg.size());

socket.send(message);

}

std::string receive\_message(zmq::socket\_t &socket) {

zmq::message\_t message;

int chars\_read;

try {

chars\_read = (int)socket.recv(&message);

}

catch (...) {

chars\_read = 0;

}

if (chars\_read == 0) {

throw -1;

}

std::string received\_msg(static\_cast<char\*>(message.data()), message.size());

return received\_msg;

}

void connect(zmq::socket\_t &socket, int port) {

std::string adress = "tcp://127.0.0.1:" + std::to\_string(port);

socket.connect(adress);

}

void disconnect(zmq::socket\_t &socket, int port) {

std::string adress = "tcp://127.0.0.1:" + std::to\_string(port);

socket.disconnect(adress);

}

int bind(zmq::socket\_t &socket, int id) {

int port = MAIN\_PORT + id;

std::string adress = "tcp://127.0.0.1:" + std::to\_string(port);

while(true){

try{

socket.bind(adress);

break;

}

catch(...){

port++;

}

}

return port;

}

void unbind(zmq::socket\_t &socket, int port) {

std::string adress = "tcp://127.0.0.1:" + std::to\_string(port);

socket.unbind(adress);

}

**tree.h**

#pragma once

#include <iostream>

#include <vector>

#include <set>

#include <algorithm>

class Tree{

struct Node{

int id;

bool available;

Node\* left, \*right;

Node(int i): id(i), available(true), left(nullptr), right(nullptr){}

~Node(){}

void findRemove(int idElem, std::set<int> &ids){

if(left != nullptr && left->id == idElem){

left->removeChilds(ids);

ids.erase(left->id);

delete left;

left = nullptr;

}

else if(right != nullptr && right->id == idElem){

right->removeChilds(ids);

ids.erase(right->id);

delete right;

right = nullptr;

}

else{

if(left != nullptr){

left->findRemove(idElem, ids);

}

if(right != nullptr){

right->findRemove(idElem, ids);

}

}

}

void removeChilds(std::set<int> &ids){

if(left != nullptr){

left->removeChilds(ids);

ids.erase(left->id);

delete left;

left = nullptr;

}

if(right != nullptr){

right->removeChilds(ids);

ids.erase(right->id);

delete right;

right = nullptr;

}

}

void addElem(int idElem, int parent, std::set<int> &ids){

if(id == parent){

if(left == nullptr){

left = new Node(idElem);

}

else{

right = new Node(idElem);

}

ids.insert(idElem);

}

else{

if(left != nullptr){

left->addElem(idElem, parent, ids);

}

if(right != nullptr){

right->addElem(idElem, parent, ids);

}

}

}

int minHight(){

if(left == nullptr || right == nullptr){

return 0;

}

int lHight = -1;

int rHight = -1;

if(left != nullptr && left->available == true){

lHight = left->minHight();

}

if(right != nullptr && right->available == true){

rHight = right->minHight();

}

if(rHight == -1 && lHight == -1){

available = false;

return -1;

}

else if(rHight == -1){

return lHight + 1;

}

else if(lHight == -1){

return rHight + 1;

}

else{

return std::min(lHight, rHight) + 1;

}

}

void notAvailable(int idElem){

if(id == idElem){

available = false;

}

else{

if(left != nullptr){

left->notAvailable(idElem);

}

if(right != nullptr){

right->notAvailable(idElem);

}

}

}

int idForMinH(int hight, int curHight){

if(hight < curHight){

return -2;

}

else if(hight > curHight){

int curid = -2;

if(left != nullptr && left->available == true){

curid = left->idForMinH(hight, (curHight + 1));

}

if(right != nullptr && right->available == true && curid == -2){

curid = right->idForMinH(hight, (curHight + 1));

}

return curid;

}

else{

if(left == nullptr || right == nullptr){

return id;

}

return -2;

}

}

};

private:

Node\* root;

public:

std::set<int> ids;

Tree(){

root = new Node(-1);

}

bool exist(int id){

if(ids.find(id) != ids.end()){

return true;

}

return false;

}

void notAvailable(int id){

root->notAvailable(id);

}

int findId(){

int h = root->minHight();

return root->idForMinH(h, 0);

}

void addElem(int id, int parent){

root->addElem(id, parent, ids);

}

void Remove(int idElem){

root->findRemove(idElem, ids);

}

~Tree(){

root->removeChilds(ids);

delete root;

}

};

**top\_node.c** (вычислительный узел)

#pragma once

#include <iostream>

#include "ze\_mes\_queue.h"

#include <string>

#include <sstream>

#include <unistd.h>

#include <map>

class TNode{

private:

zmq::context\_t context;

std::map<std::string, int> wiki\_node;

public:

zmq::socket\_t left, right, parent;

int id;

int leftId;

int rightId;

int parentId;

int leftPort;

int rightPort;

int parentPort;

TNode(int idElem, int parentP, int parID): id(idElem), parentPort(parentP),

parentId(parID), leftId(-2), rightId(-2),

left(context, ZMQ\_REQ), right(context, ZMQ\_REQ), parent(context, ZMQ\_REP)

{

if(idElem != -1){

connect(parent, parentPort);

}

}

~TNode(){}

std::string createChild(int childId){

int port;

bool isleft = false;

if(leftId == -2){

leftPort = bind(left, childId);

leftId = childId;

port = leftPort;

isleft = true;

}else if(rightId == -2){

rightPort = bind(right, childId);

rightId = childId;

port = rightPort;

}else{

return "Error create";

}

int pid = fork();

if(pid == 0){

execl("./server", "server", std::to\_string(childId).c\_str(), std::to\_string(port).c\_str(), std::to\_string(id).c\_str(), (char\*)NULL);

std::cout << "Error execl" << std::endl;

exit(1);

}

else{

std::string pidChild;

try{

if(isleft){

left.setsockopt(ZMQ\_SNDTIMEO, 3000);

send\_message(left, "pid");

pidChild = receive\_message(left);

}

else{

right.setsockopt(ZMQ\_SNDTIMEO, 3000);

send\_message(right, "pid");

pidChild = receive\_message(right);

}

return "OK: " + pidChild;

}

catch(int){

return "Error: can't connect to child";

}

}

}

std::string Ping(int idElem){

std::string answer = "OK: 0";

if(idElem == id){

answer = "OK: 1";

return answer;

}

else if(leftId == idElem){

std::string message = "ping " + std::to\_string(idElem);

send\_message(left, message);

try{

message = receive\_message(left);

if(message == "OK: 1"){

answer = message;

}

}

catch(int){}

}

else if(rightId == idElem){

std::string message = "ping " + std::to\_string(idElem);

send\_message(right, message);

try{

message = receive\_message(right);

if(message == "OK: 1"){

answer = message;

}

}

catch(int){}

}

return answer;

}

std::string sendStr(std::string str, int idElem){

std::string answer = "Error: id is not found";

if(leftId == -2 && rightId == -2){

return answer;

}

else if(leftId == idElem){

if(Ping(leftId) == "OK: 1"){

send\_message(left, str);

try{

answer = receive\_message(left);

}

catch(int){}

}

}

else if(rightId == idElem){

if(Ping(rightId) == "OK: 1"){

send\_message(right, str);

try{

answer = receive\_message(right);

}

catch(int){}

}

}

else{

if(Ping(leftId) == "OK: 1"){

std::string message = "send " + std::to\_string(idElem) + " " + str;

send\_message(left, message);

try{

message = receive\_message(left);

}

catch(int){

message = "Error: id is not found";

}

if(message != "Error: id is not found"){

answer = message;

}

}

if(Ping(rightId) == "OK: 1"){

std::string message = "send " + std::to\_string(idElem) + " " + str;

send\_message(right, message);

try{

message = receive\_message(right);

}

catch(int){

message = "Error: id is not found";

}

if(message != "Error: id is not found"){

answer = message;

}

}

}

return answer;

}

std::string exec(std::string str){

std::istringstream command(str);

std::string answer = "OK:" + std::to\_string(id);

std::string key; command >> key;

int val;

if(command >> val){

wiki\_node[key] = val;

}else{

if(wiki\_node.find(key) != wiki\_node.end()){

answer += ": " + std::to\_string(wiki\_node[key]);

}else{

answer += ": '" + key + "' not found";

}

}

return answer;

}

std::string clearChild(int child){

if(leftId == child){

leftId = -2;

unbind(left, leftPort);

}

else{

rightId = -2;

unbind(right, rightPort);

}

return "OK";

}

std::string removeElem(){

//std::string answer;

if(leftId != -2){

if(Ping(leftId) == "OK: 1"){

std::string message = "remove";

send\_message(left, message);

try{

message = receive\_message(left);

}

catch(int){}

unbind(left, leftPort);

left.close();

}

}

if(rightId != -2){

if(Ping(rightId) == "OK: 1"){

std::string message = "remove";

send\_message(right, message);

try{

message = receive\_message(right);

}

catch(int){}

unbind(right, rightPort);

right.close();

}

}

return std::to\_string(parentId);

}

};

**server.cpp**

#include <iostream>

#include "top\_node.h"

#include <sys/time.h>

#include "ze\_mes\_queue.h"

#include <string>

#include "tree.h"

#include <sstream>

int main(int argc, char \*argv[]){

if (argc < 4){

printf("Usage: ./main childID parentPort parentID\n");

exit(-1);

}

TNode node(atoi(argv[1]), atoi(argv[2]), atoi(argv[3]));

while(1){

std::string message;

std::string command;

message = receive\_message(node.parent);

std::istringstream request(message);

request >> command;

if(command == "pid"){

std::string answer = std::to\_string(getpid());

send\_message(node.parent, answer);

}

else if(command == "ping"){

int child;

request >> child;

std::string answer = node.Ping(child);

send\_message(node.parent, answer);

}

else if(command == "create"){

int child;

request >> child;

std::string answer = node.createChild(child);

send\_message(node.parent, answer);

}

else if(command == "exec"){

std::string str;

getline(request, str);

std::string answer = node.exec(str);

send\_message(node.parent, answer);

}

else if(command == "remove"){

std::string answer = node.removeElem();

send\_message(node.parent, answer);

disconnect(node.parent, node.parentPort);

node.parent.close();

break;

}else if(command == "clear"){

int child;

request >> child;

std::string answer = node.clearChild(child);

send\_message(node.parent, answer);

}

}

sleep(1);

return 0;

}

**client.cpp**

#include <iostream>

#include "top\_node.h"

#include "ze\_mes\_queue.h"

#include <sys/time.h>

#include <string>

#include <unistd.h>

#include "tree.h"

std::vector<int> treee;

int main(){

std::string command;

TNode node(-1, -1, -1);

Tree tree;

std::string answer;

while(std::cin >> command){

if(command == "create") {

int child;

std::cin >> child;

if(tree.exist(child)){

std::cout << "Error: child already existed!\n";

}

else{

treee.push\_back(child);

while(true){

int idParent = tree.findId();

if(idParent == node.id){

answer = node.createChild(child);

tree.addElem(child, idParent);

break;

}

else{

std::string message = "create " + std::to\_string(child);

answer = node.sendStr(message, idParent);

if(answer == "Error: id is not found"){

tree.notAvailable(idParent);

}

else{

tree.addElem(child, idParent);

break;

}

}

}

std::cout << answer << std::endl;

}

} else if(command == "ping") {

int child;

std::cin >> child;

if(!tree.exist(child)){

std::cout << "Error: child does not exist!\n";

}

else if(node.leftId == child || node.rightId == child){

answer = node.Ping(child);

std::cout << answer << std::endl;

}

else{

std::string message = "ping " + std::to\_string(child);

answer = node.sendStr(message, child);

if(answer == "Error: id is not found"){

answer = "OK: 0";

}

std::cout << answer << std::endl;

}

} else if(command == "exec"){

std::string str;

int child;

std::cin >> child;

getline(std::cin, str);

if(!tree.exist(child)){

std::cout << "Error: child does not exist!\n";

}else{

std::string message = "exec " + str;

answer = node.sendStr(message, child);

std::cout << answer << std::endl;

}

} else if(command == "remove"){

int child;

std::cin >> child;

std::string message = "remove";

if(!tree.exist(child)){

std::cout << "Error: child does not exist!\n";

}else{

answer = node.sendStr(message, child);

treee.erase(std::remove(treee.begin(), treee.end(), child), treee.end());

if(answer != "Error: id is not found"){

tree.Remove(child);

if(child == node.leftId){

unbind(node.left, node.leftPort);

node.leftId = -2;

answer = "OK";

}

else if(child == node.rightId){

node.rightId = -2;

unbind(node.right, node.rightPort);

answer = "OK";

}

else{

message = "clear " + std::to\_string(child);

answer = node.sendStr(message, std::stoi(answer));

}

std::cout << answer << std::endl;

}

}

} else if (command == "kill") {

node.removeElem();

tree.Remove(tree.findId());

treee.clear();

break;

}

}

return 0;

}

**Протокол работы программы**

**Тестирование:**

mishazhadnov@McB-airmi build % ./client

create 13

OK: 84596

create 23

OK: 84604

exec 13 myVal 1

OK:13

exec 13 mv 4

OK:13

exec 23 myVal

OK:23: 'myVal' not found

exec 23 myVal 11

OK:23

exec 13 myVal

OK:13: 1

ping 23

OK: 1

ping 13

OK: 1

exec 23 myVal

OK:23: 11

ping 23

OK: 1

ping 10

Error: child does not exist!

remove 13

OK

exec 13 myVal

Error: child does not exist!

kill

**Dtrace (аналог strace):**

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: csrctl(0x0, 0x7FF7B2EC769C, 0x4) = -1 1

84911/0x7129df: \_\_mac\_syscall(0x7FF815B08E3B, 0x2, 0x7FF7B2EC7500) = 0 0

84911/0x7129df: csrctl(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

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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

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

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::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: csops(0x14BAF, 0x0, 0x7FF7B2EC6694) = 0 0

84911/0x7129df: mprotect(0x10D600000, 0x40000, 0x3) = 0 0

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::sysctl: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: bsdthread\_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

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: bsdthread\_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

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

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: csrctl(0x0, 0x7FF7B9B5867C, 0x4) = -1 1

84926/0x712c6e: \_\_mac\_syscall(0x7FF815B08E3B, 0x2, 0x7FF7B9B584E0) = 0 0

84926/0x712c6e: csrctl(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/OS\0", 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: getattrlist("/\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/libremovefile.dylib\0", 0x7FF7B9B54B70, 0x0) = -1 2

84926/0x712c6e: stat64("/System/Volumes/Preboot/Cryptexes/OS/usr/lib/system/libremovefile.dylib\0", 0x7FF7B9B54B20, 0x0) = -1 2

84926/0x712c6e: stat64("/usr/lib/system/libremovefile.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

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 @q��2

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

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: bsdthread\_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, 0x7F7E6A704530, 0x0) = 0 0

84926/0x712c6e: csrctl(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::sysctl: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: bsdthread\_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

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

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 ����0

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, 0xFFFFFFFFFFFFFFFF) = 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 l0

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 l0

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 получил практические навыки в: управлении серверами сообщений (с использованием zero message queue); применении отложенных вычислений; взаимодействии программных систем друг с другом.