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Кафедра №806 “Вычислительная математика и программирование”

**Лабораторная работа №5-7 по курсу**

**«Операционные системы»**

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**Постановка задачи**

**Вариант 46.**

Реализовать распределенную систему по асинхронной обработке запросов. В данной распределенной системе должно существовать 2 вида узлов: «управляющий» и «вычислительный». Необходимо объединить данные узлы в соответствии с той топологией, которая определена вариантом. Связь между узлами необходимо осуществить при помощи технологии очередей сообщений. Также в данной системе необходимо предусмотреть проверку доступности узлов в соответствии с вариантом. Управляющий узел отвечает за ввод команд от пользователя и отправку этих команд на вычислительные узлы. Список основных поддерживаемых команд:

Создание нового вычислительного узла Формат команды: create id [parent]

id – целочисленный идентификатор нового вычислительного узла

parent – целочисленный идентификатор родительского узла.

Примечание: выполнение команд должно быть асинхронным. Т.е. пока выполняется команда на одном из вычислительных узлов, то можно отправить следующую команду на другой вычислительный узел.

Топология: узлы находятся в дереве общего вида.

Команда: локальный целочисленный словарь

Формат команды сохранения значения: exec id name value

id – целочисленный идентификатор вычислительного узла, на который отправляется команда

name – ключ, по которому будет сохранено значение (строка формата [A-Za-z0-9]+)

value – целочисленное значение

Формат команды загрузки значения: exec id name.

Проверка доступности: Формат команды: ping id

Команда проверяет доступность конкретного узла. Если узла нет, то необходимо выводить ошибку.

**Общий метод и алгоритм решения**

Для реализации системы очереди сообщений используем библиотеку ZeroMQ.

Использованные системные вызовы:

1. int select(int nfds, fd\_set \*readfds, fd\_set \*writefds, fd\_set \*exceptfds, struct timeval \*timeout); Ожидает готовности файловых дескрипторов.
2. pid\_t fork(void); Создает новый процесс.
3. int execl(const char \*path, const char \*arg, ...); Заменяет текущий процесс новым процессом.
4. pid\_t getpid(void); Возвращает идентификатор текущего процесса.
5. void zmq\_msg\_init\_size(zmq\_msg\_t \*msg, size\_t size); Инициализирует сообщение ZeroMQ с указанным размером.
6. int zmq\_msg\_send(zmq\_msg\_t \*msg, void \*socket, int flags); Отправляет сообщение через сокет ZeroMQ.
7. void zmq\_msg\_init(zmq\_msg\_t \*msg); Инициализирует сообщение ZeroMQ.
8. int zmq\_msg\_recv(zmq\_msg\_t \*msg, void \*socket, int flags); Получает сообщение через сокет ZeroMQ.
9. void \*zmq\_msg\_data(zmq\_msg\_t \*msg); Возвращает указатель на данные сообщения ZeroMQ.
10. void \*zmq\_ctx\_new(void); Создает новый контекст ZeroMQ.
11. void \*zmq\_socket(void \*context, int type); Создает новый сокет ZeroMQ.
12. int zmq\_connect(void \*socket, const char \*addr); Подключает сокет ZeroMQ к указанному адресу.
13. int zmq\_bind(void \*socket, const char \*addr); Привязывает сокет ZeroMQ к указанному адресу.

Для реализации потребуется написать два исполняемых файлов. Управляющий узел и вычислительный. Для удобства напишем отдельные функции отправки, принятия сообщения, создания дочернего процесса.

Очередь сообщений будем реализовывать с помощью библиотеки ZeroMQ. Сообщения будем передавать через сокеты. Контекст в ZeroMQ — это основной объект, который управляет всеми ресурсами, необходимыми для работы с сокетами. Контекст отвечает за управление потоками, соединениями и другими низкоуровневыми деталями. Сокеты в ZeroMQ — это абстракции, которые представляют конечные точки для отправки и получения сообщений. ZeroMQ предоставляет несколько типов сокетов, каждый из которых имеет свою семантику и предназначен для различных шаблонов взаимодействия. Мы будем использовать DEALER, так как он позволяет создать двустороннюю очередь сообщений в которую сможет писать и родитель и ребенок. Для того, чтобы система работала асинхронно необходимо использовать специальные флаги ZMQ\_DONTWAIT. Этот флаг означает отправить или принять сообщения без ответа. Т.е. по принципу «отправил и забыл» может относиться к асинхронному обмену сообщениями. В этом случае отправитель не обязан ожидать подтверждения о получении и обработке сообщения от принимающей стороны.

Для того, чтобы стандартизировать данные, которые будет принимать и отправлять в очередь процессы создадим класс message, который будет хранить данные, которые мы будем отправлять.

Класс message будет хранить команду(None, Create, Ping, ExecAdd, ExecFnd, ExecErr) айди кому отправляем, числовая часть данных, строковую часть данных и время отправки сообщения, для определения недошедших сообщений.

Опишем функцию createNode, она создаёт новый процесс функцией fork и замещает память программой вычислительного узла после команды execl, так же ключом запуска передаётся id нового узла.

Опишем функции отрывки и принятия сообщения. Каждая нода ребенка будет хранить собственный адрес, контекс, сокет, айди, пид. Соответственно функция отправки будет брать сообщение и зная длину в байтах посылать не дожидаясь ответа в очередь сообщений по своему сокету. Аналогично функция приёмки сообщений в случае получения байтов, будет получать сообщение и возвращать его в основную программу. Иначе возвращать сообщение с типом None.

Для того, чтобы отправить команду, управляющему узлу придется отправить команду всем своим детям и ждать ответа от хоть кого-нибудь об успешном выполнении. Каждый следящий узел будет сравнивать id команды со своим id и если он не совпадает отправлять всем своим детям. Если id совпадают, то узел будет выполнять команду в зависимости от её значения, установленного условием задачи.

Для реализации проверки доступности узла у управляющего узла введем список отправленных сообщений и каждый такт цикла будем проверять все сообщения и сравнивать их время отправки с текущем временем. Если оно отличается больше чем на дельту, то необходимо вывести сообщение о недоступности узла. При успешном выполнении команды, то удаляем сообщения из списка оправленных.

Для реализации топологии дерева общего вида будем использовать его определение, в нем сказано, что дочерние вершины хранятся у каждого родителя в очереди вершин. Это удобно в случае, когда нам нужно разово пройтись по дочерним вершинам. В нашем случае эффективно по памяти использовать std::list, аналогично для всех коллекций, которые будем использовать в данной лабораторной работе.

Для словаря будем использовать std::map где ключом будет std::string, а значением int. Для проверки наличия ключа будем использовать std::find который будет проверять, есть ли ключ в словаре.

Для меньшего потребления ресурсов процессами можно после каждого такта добавить sleep на значение 100ms, так как в данном контексте нет необходимости, чтобы программа работала со скоростью миллионы итераций в секунду.

**Код программы**

lib.h

#include <iostream>

#include <list>

#include <unordered\_set>

#include <chrono>

#include <ctime>

#include <string>

#include <cstring>

#include <unistd.h>

#include <sys/wait.h>

#include "zmq.h"

#include <sys/select.h>

#include <map>

bool inputAvailable();

std::time\_t t\_now();

enum com : char

{

    None = 0,

    Create = 1,

    Ping = 2,

    ExecAdd = 3,

    ExecFnd = 4,

    ExecErr = 5

};

class message

{

public:

    message() {}

    message(com command, int id, int num) // констуктор без строки

        : command(command), id(id), num(num), sent\_time(t\_now())

    {

    }

    message(com command, int id, int num, char s[]) // констуктор со строкой

        : command(command), id(id), num(num), sent\_time(t\_now())

    {

        for (int i = 0; i < 30; ++i)

            st[i] = s[i];

    }

    bool operator==(const message &other) const

    {

        return command == other.command && id == other.id && num == other.num && sent\_time == other.sent\_time;

    }

    com command;           // команда

    int id;                // айди кому шлем

    int num;               // данные, либо число либо строка

    std::time\_t sent\_time; // время отправки

    char st[30];           // строка

};

class Node

{

public:

    int id;

    pid\_t pid;

    void \*context;

    void \*socket;

    std::string address;

    bool operator==(const Node &other) const

    {

        return id == other.id && pid == other.pid;

    }

};

Node createNode(int id, bool is\_child);

Node createProcess(int id);

void send\_mes(Node &node, message m);

message get\_mes(Node &node);

lib.cpp

#include <lib.h>

bool inputAvailable()

{

    struct timeval tv;

    fd\_set fds;

    tv.tv\_sec = 0;

    tv.tv\_usec = 0;

    FD\_ZERO(&fds);

    FD\_SET(STDIN\_FILENO, &fds);

    select(STDIN\_FILENO + 1, &fds, NULL, NULL, &tv);

    return (FD\_ISSET(STDIN\_FILENO, &fds));

}

std::time\_t t\_now()

{

    return std::chrono::system\_clock::to\_time\_t(std::chrono::system\_clock::now());

}

Node createNode(int id, bool is\_child)

{

    Node node;

    node.id = id;

    node.pid = getpid();

    node.context = zmq\_ctx\_new();

    node.socket = zmq\_socket(node.context, ZMQ\_DEALER);

    node.address = "tcp://127.0.0.1:" + std::to\_string(5555 + id);

    if (is\_child)

        zmq\_connect(node.socket, (node.address).c\_str());

    else

        zmq\_bind(node.socket, (node.address).c\_str());

    return node;

}

Node createProcess(int id)

{

    pid\_t pid = fork();

    if (pid == 0)

    {

        // Дочерний процесс

        execl("./computing", "computing", std::to\_string(id).c\_str(), NULL);

        std::cerr << "execl failed" << std::endl;

        exit(1);

    }

    else if (pid == -1)

    {

        // Ошибка при создании процесса

        std::cerr << "Fork failed" << std::endl;

        exit(1);

    }

    // Родительский процесс

    Node node = createNode(id, false);

    node.pid = pid;

    return node;

}

void send\_mes(Node &node, message m)

{

    zmq\_msg\_t request\_message;

    zmq\_msg\_init\_size(&request\_message, sizeof(m));

    std::memcpy(zmq\_msg\_data(&request\_message), &m, sizeof(m));

    zmq\_msg\_send(&request\_message, node.socket, ZMQ\_DONTWAIT);

}

message get\_mes(Node &node)

{

    zmq\_msg\_t request;

    zmq\_msg\_init(&request);

    auto result = zmq\_msg\_recv(&request, node.socket, ZMQ\_DONTWAIT);

    if (result == -1)

        return message(None, -1, -1);

    message m;

    std::memcpy(&m, zmq\_msg\_data(&request), sizeof(message));

    return m;

}

control.cpp

#include <./lib.h>

int main()

{

    std::unordered\_set<int> all\_id;

    all\_id.insert(-1);

    std::list<message> saved\_mes;

    std::list<Node> children;

    std::string command;

    while (true)

    {

        // проверяем сообщения от детей

        for (auto &i : children)

        {

            message m = get\_mes(i);

            switch (m.command)

            {

            case Create:

                all\_id.insert(m.id);

                std::cout << "Ok: " << m.num << std::endl;

                for (auto it = saved\_mes.begin(); it != saved\_mes.end(); ++it)

                {

                    if (it->command == Create and it->num == m.id)

                    {

                        saved\_mes.erase(it);

                        break;

                    }

                }

                break;

            case Ping:

                std::cout << "Ok: " << m.id << " is available" << std::endl;

                for (auto it = saved\_mes.begin(); it != saved\_mes.end(); ++it)

                {

                    if (it->command == Ping and it->id == m.id)

                    {

                        saved\_mes.erase(it);

                        break;

                    }

                }

                break;

            case ExecErr:

                std::cout << "Ok: " << m.id << " '" << m.st << "'not fount" << std::endl;

                for (auto it = saved\_mes.begin(); it != saved\_mes.end(); ++it)

                {

                    if (it->command == ExecFnd and it->id == m.id)

                    {

                        saved\_mes.erase(it);

                        break;

                    }

                }

                break;

            case ExecAdd:

                std::cout << "Ok: " << m.id << std::endl;

                for (auto it = saved\_mes.begin(); it != saved\_mes.end(); ++it)

                {

                    if (it->command == ExecAdd and it->id == m.id)

                    {

                        saved\_mes.erase(it);

                        break;

                    }

                }

                break;

            case ExecFnd:

                std::cout << "Ok: " << m.id << " '" << m.st << "' " << m.num << std::endl;

                for (auto it = saved\_mes.begin(); it != saved\_mes.end(); ++it)

                {

                    if (it->command == ExecFnd and it->id == m.id)

                    {

                        saved\_mes.erase(it);

                        break;

                    }

                }

                break;

            default:

                continue;

            }

        }

        // проверяем недошедшие сообщения

        for (auto it = saved\_mes.begin(); it != saved\_mes.end(); ++it)

        {

            if (std::difftime(t\_now(), it->sent\_time) > 5)

            {

                switch (it->command)

                {

                case Ping:

                    std::cout << "Error: Ok " << it->id << " is unavailable" << std::endl;

                    break;

                case Create:

                    std::cout << "Error: Parent  " << it->id << " is unavailable" << std::endl;

                    break;

                case ExecAdd:

                case ExecFnd:

                    std::cout << "Error: Node  " << it->id << " is unavailable" << std::endl;

                    break;

                default:

                    break;

                }

                saved\_mes.erase(it); // Удаляем элемент

                break;

            }

        }

        // обрабатываем команды ввода

        if (!inputAvailable())

        {

            continue;

        }

        std::cin >> command;

        if (command == "create")

        {

            int parent\_id, child\_id;

            std::cin >> child\_id >> parent\_id;

            if (all\_id.count(child\_id))

            {

                std::cout << "Error: Node with id " << child\_id << " already exists" << std::endl;

            }

            else if (!all\_id.count(parent\_id))

            {

                std::cout << "Error: Parent with id " << parent\_id << " not found" << std::endl;

            }

            else if (parent\_id == -1) // добавляем себе нового ребенка

            {

                Node child = createProcess(child\_id);

                children.push\_back(child);

                all\_id.insert(child\_id);

                std::cout << "Ok: " << child.pid << std::endl;

            }

            else // отправляем команду на добавление ребенка детям

            {

                message m(Create, parent\_id, child\_id);

                saved\_mes.push\_back(m);

                for (auto &i : children)

                    send\_mes(i, m);

            }

        }

        else if (command == "exec")

        {

            char input[100];

            fgets(input, sizeof(input), stdin);

            int id, val;

            char key[30];

            // Используем sscanf для разбора строки

            if (sscanf(input, "%d %30s %d", &id, key, &val) == 3)

            {

                if (!all\_id.count(id))

                {

                    std::cout << "Error: Node with id " << id << " doesn't exist" << std::endl;

                    continue;

                }

                message m = {ExecAdd, id, val, key};

                saved\_mes.push\_back(m);

                for (auto &i : children)

                    send\_mes(i, m);

            }

            else if (sscanf(input, "%d %30s", &id, key) == 2)

            {

                if (!all\_id.count(id))

                {

                    std::cout << "Error: Node with id " << id << " doesn't exist" << std::endl;

                    continue;

                }

                message m = {ExecFnd, id, -1, key};

                saved\_mes.push\_back(m);

                for (auto &i : children)

                    send\_mes(i, m);

            }

        }

        else if (command == "ping")

        {

            int id;

            std::cin >> id;

            if (!all\_id.count(id))

            {

                std::cout << "Error: Node with id " << id << " doesn't exist" << std::endl;

            }

            else

            {

                message m(Ping, id, 0);

                saved\_mes.push\_back(m);

                for (auto &i : children)

                    send\_mes(i, m);

            }

        }

        else

            std::cout << "Error: Command doesn't exist!" << std::endl;

        usleep(100000);

    }

    return 0;

}

computing.cpp

#include <lib.h>

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

{

    Node I = createNode(atoi(argv[1]), true);

    std::map<std::string, int> dict;

    std::list<Node> children;

    while (true)

    {

        for (auto &i : children)

        {

            message m = get\_mes(i);

            if (m.command != None)

                send\_mes(I, m);

        }

        // проверяем сообщение от родителя

        message m = get\_mes(I);

        switch (m.command)

        {

        case Create:

            if (m.id == I.id) // добавляем себе нового ребенка

            {

                Node child = createProcess(m.num);

                children.push\_back(child);

                send\_mes(I, {Create, child.id, child.pid});

            }

            else // отправляем команду на добавление ребенка детям

                for (auto &i : children)

                    send\_mes(i, m);

            break;

        case Ping:

            if (m.id == I.id)

                send\_mes(I, m); // спросили меня, отправляем что мы живы

            else                // отправляем детям запрос

                for (auto &i : children)

                    send\_mes(i, m);

            break;

        case ExecAdd:

            if (m.id == I.id) // спросили меня, отправляем ответ

            {

                dict[std::string(m.st)] = m.num;

                send\_mes(I, m);

            }

            else // отправляем детям запрос

                for (auto &i : children)

                    send\_mes(i, m);

            break;

        case ExecFnd:

            if (m.id == I.id) // спросили меня, отправляем ответ

                if (dict.find(std::string(m.st)) != dict.end())

                    send\_mes(I, {ExecFnd, I.id, dict[std::string(m.st)], m.st});

                else

                    send\_mes(I, {ExecErr, I.id, -1, m.st});

            else // отправляем детям запрос

                for (auto &i : children)

                    send\_mes(i, m);

            break;

        default:

            break;

        }

        usleep(100000);

    }

    return 0;

}

**Протокол работы программы**

**Тестирование:**

**Тест 1.**

create 1 -1

Ok: 19478

create 2 1

Ok: 19512

exec 2 malina 3

Ok: 2

exec 2 malina

Ok: 2 'malina' 3

ping 2

Ok: 2 is available

pig 1

Error: Command doesn't exist!

ping 1

Error: Command doesn't exist!

Ok: 1 is available

**Тест 2.**

create 1 -1

Ok: 22497

create 21 1

Ok: 22565

create 12 1

Ok: 22616

exec 21 kol 2

Ok: 21

exec 21 kol

Ok: 21 'kol' 2

ping 21

Ok: 21 is available

ping 12

Ok: 12 is available

**Strace:**

23259 execve("./control", ["./control"], 0x7ffef2951018 /\* 34 vars \*/) = 0

23259 brk(NULL) = 0x564651045000

23259 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7fcafb9e7000

23259 access("/etc/ld.so.preload", R\_OK) = -1 ENOENT (No such file or directory)

23259 openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC) = 3

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=26550, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 26550, PROT\_READ, MAP\_PRIVATE, 3, 0) = 0x7fcafb9e0000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libzmq.so.5", O\_RDONLY|O\_CLOEXEC) = 3

23259 read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=774184, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 772088, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb923000

23259 mmap(0x7fcafb93c000, 487424, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x19000) = 0x7fcafb93c000

23259 mmap(0x7fcafb9b3000, 147456, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x90000) = 0x7fcafb9b3000

23259 mmap(0x7fcafb9d7000, 36864, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xb4000) = 0x7fcafb9d7000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/usr/local/lib64/libstdc++.so.6", O\_RDONLY|O\_CLOEXEC) = 3

23259 read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0755, st\_size=2530008, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 2543808, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb6b5000

23259 mmap(0x7fcafb75a000, 1216512, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xa5000) = 0x7fcafb75a000

23259 mmap(0x7fcafb883000, 581632, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1ce000) = 0x7fcafb883000

23259 mmap(0x7fcafb911000, 57344, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x25c000) = 0x7fcafb911000

23259 mmap(0x7fcafb91f000, 12480, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7fcafb91f000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/usr/local/lib64/libgcc\_s.so.1", O\_RDONLY|O\_CLOEXEC) = 3

23259 read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=906528, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 181160, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb688000

23259 mmap(0x7fcafb68c000, 143360, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000) = 0x7fcafb68c000

23259 mmap(0x7fcafb6af000, 16384, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x27000) = 0x7fcafb6af000

23259 mmap(0x7fcafb6b3000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2b000) = 0x7fcafb6b3000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libc.so.6", O\_RDONLY|O\_CLOEXEC) = 3

23259 read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\20t\2\0\0\0\0\0"..., 832) = 832

23259 pread64(3, "\6\0\0\0\4\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0"..., 784, 64) = 784

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0755, st\_size=1922136, ...}, AT\_EMPTY\_PATH) = 0

23259 pread64(3, "\6\0\0\0\4\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0@\0\0\0\0\0\0\0"..., 784, 64) = 784

23259 mmap(NULL, 1970000, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb4a7000

23259 mmap(0x7fcafb4cd000, 1396736, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x26000) = 0x7fcafb4cd000

23259 mmap(0x7fcafb622000, 339968, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x17b000) = 0x7fcafb622000

23259 mmap(0x7fcafb675000, 24576, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1ce000) = 0x7fcafb675000

23259 mmap(0x7fcafb67b000, 53072, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7fcafb67b000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libbsd.so.0", O\_RDONLY|O\_CLOEXEC) = 3

23259 read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=84840, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 86224, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb491000

23259 mmap(0x7fcafb495000, 49152, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000) = 0x7fcafb495000

23259 mmap(0x7fcafb4a1000, 12288, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x10000) = 0x7fcafb4a1000

23259 mmap(0x7fcafb4a4000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x13000) = 0x7fcafb4a4000

23259 mmap(0x7fcafb4a6000, 208, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7fcafb4a6000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libsodium.so.23", O\_RDONLY|O\_CLOEXEC) = 3

23259 read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0 \314\0\0\0\0\0\0"..., 832) = 832

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=363208, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7fcafb48f000

23259 mmap(NULL, 365576, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb435000

23259 mprotect(0x7fcafb441000, 311296, PROT\_NONE) = 0

23259 mmap(0x7fcafb441000, 233472, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xc000) = 0x7fcafb441000

23259 mmap(0x7fcafb47a000, 73728, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x45000) = 0x7fcafb47a000

23259 mmap(0x7fcafb48d000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x57000) = 0x7fcafb48d000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libpgm-5.3.so.0", O\_RDONLY|O\_CLOEXEC) = 3

23259 read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\220I\0\0\0\0\0\0"..., 832) = 832

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=306400, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 326096, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb3e5000

23259 mmap(0x7fcafb3e9000, 167936, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000) = 0x7fcafb3e9000

23259 mmap(0x7fcafb412000, 118784, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2d000) = 0x7fcafb412000

23259 mmap(0x7fcafb42f000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x49000) = 0x7fcafb42f000

23259 mmap(0x7fcafb431000, 14800, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7fcafb431000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libnorm.so.1", O\_RDONLY|O\_CLOEXEC) = 3

23259 read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\300\246\0\0\0\0\0\0"..., 832) = 832

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=489480, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 1214976, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb2bc000

23259 mprotect(0x7fcafb2c6000, 438272, PROT\_NONE) = 0

23259 mmap(0x7fcafb2c6000, 278528, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xa000) = 0x7fcafb2c6000

23259 mmap(0x7fcafb30a000, 155648, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4e000) = 0x7fcafb30a000

23259 mmap(0x7fcafb331000, 16384, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x74000) = 0x7fcafb331000

23259 mmap(0x7fcafb335000, 719360, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7fcafb335000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libgssapi\_krb5.so.2", O\_RDONLY|O\_CLOEXEC) = 3

23259 read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=338680, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 337152, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb269000

23259 mmap(0x7fcafb275000, 221184, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xc000) = 0x7fcafb275000

23259 mmap(0x7fcafb2ab000, 53248, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x42000) = 0x7fcafb2ab000

23259 mmap(0x7fcafb2b8000, 16384, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4f000) = 0x7fcafb2b8000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libm.so.6", O\_RDONLY|O\_CLOEXEC) = 3

23259 read(3, "\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=907784, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 909560, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb18a000

23259 mmap(0x7fcafb19a000, 471040, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x10000) = 0x7fcafb19a000

23259 mmap(0x7fcafb20d000, 368640, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x83000) = 0x7fcafb20d000

23259 mmap(0x7fcafb267000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xdc000) = 0x7fcafb267000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libmd.so.0", O\_RDONLY|O\_CLOEXEC) = 3

23259 read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=47312, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7fcafb188000

23259 mmap(NULL, 49384, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb17b000

23259 mmap(0x7fcafb17d000, 28672, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000) = 0x7fcafb17d000

23259 mmap(0x7fcafb184000, 8192, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x9000) = 0x7fcafb184000

23259 mmap(0x7fcafb186000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xa000) = 0x7fcafb186000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libpthread.so.0", O\_RDONLY|O\_CLOEXEC) = 3

23259 read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=14480, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 16400, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb176000

23259 mmap(0x7fcafb177000, 4096, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1000) = 0x7fcafb177000

23259 mmap(0x7fcafb178000, 4096, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000) = 0x7fcafb178000

23259 mmap(0x7fcafb179000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000) = 0x7fcafb179000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libkrb5.so.3", O\_RDONLY|O\_CLOEXEC) = 3

23259 read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=888080, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 890784, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb09c000

23259 mmap(0x7fcafb0bf000, 389120, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x23000) = 0x7fcafb0bf000

23259 mmap(0x7fcafb11e000, 294912, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x82000) = 0x7fcafb11e000

23259 mmap(0x7fcafb166000, 65536, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xc9000) = 0x7fcafb166000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libk5crypto.so.3", O\_RDONLY|O\_CLOEXEC) = 3

23259 read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=183048, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 180952, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb06f000

23259 mmap(0x7fcafb073000, 106496, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000) = 0x7fcafb073000

23259 mmap(0x7fcafb08d000, 53248, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1e000) = 0x7fcafb08d000

23259 mmap(0x7fcafb09a000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2b000) = 0x7fcafb09a000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libcom\_err.so.2", O\_RDONLY|O\_CLOEXEC) = 3

23259 read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=18344, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 20552, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb069000

23259 mmap(0x7fcafb06b000, 4096, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000) = 0x7fcafb06b000

23259 mmap(0x7fcafb06c000, 4096, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x3000) = 0x7fcafb06c000

23259 mmap(0x7fcafb06d000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x3000) = 0x7fcafb06d000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libkrb5support.so.0", O\_RDONLY|O\_CLOEXEC) = 3

23259 read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=52224, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7fcafb067000

23259 mmap(NULL, 54632, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb059000

23259 mmap(0x7fcafb05c000, 24576, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x3000) = 0x7fcafb05c000

23259 mmap(0x7fcafb062000, 12288, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x9000) = 0x7fcafb062000

23259 mmap(0x7fcafb065000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xb000) = 0x7fcafb065000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libkeyutils.so.1", O\_RDONLY|O\_CLOEXEC) = 3

23259 read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=22448, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 24592, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb052000

23259 mmap(0x7fcafb054000, 8192, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000) = 0x7fcafb054000

23259 mmap(0x7fcafb056000, 4096, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000) = 0x7fcafb056000

23259 mmap(0x7fcafb057000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000) = 0x7fcafb057000

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libresolv.so.2", O\_RDONLY|O\_CLOEXEC) = 3

23259 read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=60328, ...}, AT\_EMPTY\_PATH) = 0

23259 mmap(NULL, 68136, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7fcafb041000

23259 mmap(0x7fcafb044000, 32768, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x3000) = 0x7fcafb044000

23259 mmap(0x7fcafb04c000, 8192, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xb000) = 0x7fcafb04c000

23259 mmap(0x7fcafb04e000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xd000) = 0x7fcafb04e000

23259 mmap(0x7fcafb050000, 6696, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7fcafb050000

23259 close(3) = 0

23259 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7fcafb03f000

23259 mmap(NULL, 12288, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7fcafb03c000

23259 arch\_prctl(ARCH\_SET\_FS, 0x7fcafb03c9c0) = 0

23259 set\_tid\_address(0x7fcafb03cc90) = 23259

23259 set\_robust\_list(0x7fcafb03cca0, 24) = 0

23259 rseq(0x7fcafb03d2e0, 0x20, 0, 0x53053053) = 0

23259 mprotect(0x7fcafb675000, 16384, PROT\_READ) = 0

23259 mprotect(0x7fcafb04e000, 4096, PROT\_READ) = 0

23259 mprotect(0x7fcafb057000, 4096, PROT\_READ) = 0

23259 mprotect(0x7fcafb065000, 4096, PROT\_READ) = 0

23259 mprotect(0x7fcafb06d000, 4096, PROT\_READ) = 0

23259 mprotect(0x7fcafb09a000, 4096, PROT\_READ) = 0

23259 mprotect(0x7fcafb166000, 53248, PROT\_READ) = 0

23259 mprotect(0x7fcafb179000, 4096, PROT\_READ) = 0

23259 mprotect(0x7fcafb186000, 4096, PROT\_READ) = 0

23259 mprotect(0x7fcafb267000, 4096, PROT\_READ) = 0

23259 mprotect(0x7fcafb2b8000, 8192, PROT\_READ) = 0

23259 mprotect(0x7fcafb6b3000, 4096, PROT\_READ) = 0

23259 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7fcafb03a000

23259 mprotect(0x7fcafb911000, 45056, PROT\_READ) = 0

23259 mprotect(0x7fcafb331000, 12288, PROT\_READ) = 0

23259 mprotect(0x7fcafb42f000, 4096, PROT\_READ) = 0

23259 mprotect(0x7fcafb48d000, 4096, PROT\_READ) = 0

23259 mprotect(0x7fcafb4a4000, 4096, PROT\_READ) = 0

23259 mprotect(0x7fcafb9d7000, 32768, PROT\_READ) = 0

23259 mprotect(0x56464f95d000, 4096, PROT\_READ) = 0

23259 mprotect(0x7fcafba19000, 8192, PROT\_READ) = 0

23259 prlimit64(0, RLIMIT\_STACK, NULL, {rlim\_cur=8192\*1024, rlim\_max=RLIM64\_INFINITY}) = 0

23259 munmap(0x7fcafb9e0000, 26550) = 0

23259 futex(0x7fcafb91f73c, FUTEX\_WAKE\_PRIVATE, 2147483647) = 0

23259 getrandom("\x0b\xcb\xc4\x4c\x94\x0b\xbe\x5b", 8, GRND\_NONBLOCK) = 8

23259 brk(NULL) = 0x564651045000

23259 brk(0x564651066000) = 0x564651066000

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

....

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 1 (in [0], left {tv\_sec=0, tv\_nsec=0})

23259 newfstatat(0, "", {st\_mode=S\_IFCHR|0620, st\_rdev=makedev(0x88, 0), ...}, AT\_EMPTY\_PATH) = 0

23259 read(0, "create 1 -1\n", 1024) = 12

23259 clone(child\_stack=NULL, flags=CLONE\_CHILD\_CLEARTID|CLONE\_CHILD\_SETTID|SIGCHLD, child\_tidptr=0x7fcafb03cc90) = 23337

23337 set\_robust\_list(0x7fcafb03cca0, 24 <unfinished ...>

23259 getpid( <unfinished ...>

23337 <... set\_robust\_list resumed>) = 0

23259 <... getpid resumed>) = 23259

23337 **execve**("./computing", ["computing", "1"], 0x7fffcaebd3b8 /\* 34 vars \*/ <unfinished ...>

23259 openat(AT\_FDCWD, "/sys/devices/system/cpu/online", O\_RDONLY|O\_CLOEXEC) = 3

23259 read(3, "0-17\n", 1024) = 5

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/sys/devices/system/cpu/possible", O\_RDONLY|O\_CLOEXEC) = 3

23259 read(3, "0-17\n", 1024) = 5

23259 close(3) = 0

23259 getpid() = 23259

23259 sched\_getaffinity(23259, 128, [0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17]) = 32

23259 newfstatat(AT\_FDCWD, "/etc/nsswitch.conf", {st\_mode=S\_IFREG|0644, st\_size=494, ...}, 0) = 0

23259 newfstatat(AT\_FDCWD, "/", {st\_mode=S\_IFDIR|0755, st\_size=4096, ...}, 0) = 0

23259 openat(AT\_FDCWD, "/etc/nsswitch.conf", O\_RDONLY|O\_CLOEXEC) = 3

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=494, ...}, AT\_EMPTY\_PATH) = 0

23259 read(3, "# /etc/nsswitch.conf\n#\n# Example"..., 4096) = 494

23259 read(3, "", 4096) = 0

23259 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=494, ...}, AT\_EMPTY\_PATH) = 0

23259 close(3) = 0

23259 openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC) = 3

23337 <... execve resumed>) = 0

23259 newfstatat(3, "", <unfinished ...>

23337 brk(NULL <unfinished ...>

23259 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=26550, ...}, AT\_EMPTY\_PATH) = 0

23337 <... brk resumed>) = 0x563e8abb5000

23259 mmap(NULL, 26550, PROT\_READ, MAP\_PRIVATE, 3, 0 <unfinished ...>

23337 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

23259 <... mmap resumed>) = 0x7fcafb9e0000

23337 <... mmap resumed>) = 0x7f66c058f000

23259 close(3 <unfinished ...>

23337 access("/etc/ld.so.preload", R\_OK <unfinished ...>

23259 <... close resumed>) = 0

23337 <... access resumed>) = -1 ENOENT (No such file or directory)

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/glibc-hwcaps/x86-64-v3/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... openat resumed>) = 3

23259 newfstatat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/glibc-hwcaps/x86-64-v3", <unfinished ...>

23337 newfstatat(3, "", <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=26550, ...}, AT\_EMPTY\_PATH) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/glibc-hwcaps/x86-64-v2/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 mmap(NULL, 26550, PROT\_READ, MAP\_PRIVATE, 3, 0 <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66c0588000

23259 newfstatat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/glibc-hwcaps/x86-64-v2", <unfinished ...>

23337 close(3 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... close resumed>) = 0

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/tls/haswell/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libzmq.so.5", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... openat resumed>) = 3

23259 newfstatat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/tls/haswell/x86\_64", <unfinished ...>

23337 read(3, <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... read resumed>"\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/tls/haswell/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 newfstatat(3, "", <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=774184, ...}, AT\_EMPTY\_PATH) = 0

23259 newfstatat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/tls/haswell", <unfinished ...>

23337 mmap(NULL, 772088, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66c04cb000

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/tls/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 mmap(0x7f66c04e4000, 487424, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x19000 <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66c04e4000

23259 newfstatat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/tls/x86\_64", <unfinished ...>

23337 mmap(0x7f66c055b000, 147456, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x90000 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66c055b000

23259 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/tls/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 mmap(0x7f66c057f000, 36864, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xb4000 <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... openat resumed>) = 3

23259 newfstatat(AT\_FDCWD, "/lib/glibc-hwcaps/x86-64-v3", <unfinished ...>

23337 read(3, <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... read resumed>"\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

23259 openat(AT\_FDCWD, "/lib/glibc-hwcaps/x86-64-v2/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 newfstatat(3, "", <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=84840, ...}, AT\_EMPTY\_PATH) = 0

23259 newfstatat(AT\_FDCWD, "/lib/glibc-hwcaps/x86-64-v2", <unfinished ...>

23337 mmap(NULL, 86224, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66c0039000

23259 openat(AT\_FDCWD, "/lib/tls/haswell/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 mmap(0x7f66c003d000, 49152, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000 <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66c003d000

23259 newfstatat(AT\_FDCWD, "/lib/tls/haswell/x86\_64", <unfinished ...>

23337 mmap(0x7f66c0049000, 12288, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x10000 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66c0049000

23259 openat(AT\_FDCWD, "/lib/tls/haswell/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 mmap(0x7f66c004c000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x13000 <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66c004c000

23259 newfstatat(AT\_FDCWD, "/lib/tls/haswell", <unfinished ...>

23337 mmap(0x7f66c004e000, 208, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66c004e000

23259 openat(AT\_FDCWD, "/lib/tls/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 close(3 <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... close resumed>) = 0

23259 newfstatat(AT\_FDCWD, "/lib/tls/x86\_64", <unfinished ...>

23337 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libsodium.so.23", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... openat resumed>) = 3

23259 openat(AT\_FDCWD, "/lib/tls/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 read(3, <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... read resumed>"\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0 \314\0\0\0\0\0\0"..., 832) = 832

23259 newfstatat(AT\_FDCWD, "/lib/tls", <unfinished ...>

23337 newfstatat(3, "", <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=363208, ...}, AT\_EMPTY\_PATH) = 0

23259 openat(AT\_FDCWD, "/lib/haswell/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66c0037000

23259 newfstatat(AT\_FDCWD, "/lib/haswell/x86\_64", <unfinished ...>

23337 mmap(NULL, 365576, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66bffdd000

23259 openat(AT\_FDCWD, "/lib/haswell/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 mprotect(0x7f66bffe9000, 311296, PROT\_NONE <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... mprotect resumed>) = 0

23259 newfstatat(AT\_FDCWD, "/lib/haswell", <unfinished ...>

23337 mmap(0x7f66bffe9000, 233472, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xc000 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66bffe9000

23259 openat(AT\_FDCWD, "/lib/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 mmap(0x7f66c0022000, 73728, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x45000 <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66c0022000

23259 newfstatat(AT\_FDCWD, "/lib/x86\_64", <unfinished ...>

23337 mmap(0x7f66c0035000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x57000 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66c0035000

23259 openat(AT\_FDCWD, "/lib/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 close(3 <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... close resumed>) = 0

23259 newfstatat(AT\_FDCWD, "/lib", <unfinished ...>

23337 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libpgm-5.3.so.0", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23259 <... newfstatat resumed>{st\_mode=S\_IFDIR|0755, st\_size=4096, ...}, 0) = 0

23337 <... openat resumed>) = 3

23259 openat(AT\_FDCWD, "/usr/lib/glibc-hwcaps/x86-64-v3/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 read(3, <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... read resumed>"\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\220I\0\0\0\0\0\0"..., 832) = 832

23259 newfstatat(AT\_FDCWD, "/usr/lib/glibc-hwcaps/x86-64-v3", <unfinished ...>

23337 newfstatat(3, "", <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=306400, ...}, AT\_EMPTY\_PATH) = 0

23259 openat(AT\_FDCWD, "/usr/lib/glibc-hwcaps/x86-64-v2/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 mmap(NULL, 326096, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66bff8d000

23259 newfstatat(AT\_FDCWD, "/usr/lib/glibc-hwcaps/x86-64-v2", <unfinished ...>

23337 mmap(0x7f66bff91000, 167936, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66bff91000

23259 openat(AT\_FDCWD, "/usr/lib/tls/haswell/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 mmap(0x7f66bffba000, 118784, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2d000 <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66bffba000

23259 newfstatat(AT\_FDCWD, "/usr/lib/tls/haswell/x86\_64", <unfinished ...>

23337 mmap(0x7f66bffd7000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x49000 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66bffd7000

23259 openat(AT\_FDCWD, "/usr/lib/tls/haswell/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 mmap(0x7f66bffd9000, 14800, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66bffd9000

23259 newfstatat(AT\_FDCWD, "/usr/lib/tls/haswell", <unfinished ...>

23337 close(3 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... close resumed>) = 0

23259 openat(AT\_FDCWD, "/usr/lib/tls/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libnorm.so.1", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... openat resumed>) = 3

23259 newfstatat(AT\_FDCWD, "/usr/lib/tls/x86\_64", <unfinished ...>

23337 read(3, <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... read resumed>"\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\300\246\0\0\0\0\0\0"..., 832) = 832

23259 openat(AT\_FDCWD, "/usr/lib/tls/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 newfstatat(3, "", <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=489480, ...}, AT\_EMPTY\_PATH) = 0

23259 newfstatat(AT\_FDCWD, "/usr/lib/tls", <unfinished ...>

23337 mmap(NULL, 1214976, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66bfe64000

23259 openat(AT\_FDCWD, "/usr/lib/haswell/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 mprotect(0x7f66bfe6e000, 438272, PROT\_NONE <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... mprotect resumed>) = 0

23259 newfstatat(AT\_FDCWD, "/usr/lib/haswell/x86\_64", <unfinished ...>

23337 mmap(0x7f66bfe6e000, 278528, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xa000 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66bfe6e000

23259 openat(AT\_FDCWD, "/usr/lib/haswell/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 mmap(0x7f66bfeb2000, 155648, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4e000 <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66bfeb2000

23259 newfstatat(AT\_FDCWD, "/usr/lib/haswell", <unfinished ...>

23337 mmap(0x7f66bfed9000, 16384, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x74000 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66bfed9000

23259 openat(AT\_FDCWD, "/usr/lib/x86\_64/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 mmap(0x7f66bfedd000, 719360, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... mmap resumed>) = 0x7f66bfedd000

23259 newfstatat(AT\_FDCWD, "/usr/lib/x86\_64", <unfinished ...>

23337 close(3 <unfinished ...>

23259 <... newfstatat resumed>0x7fffcaeb9fd0, 0) = -1 ENOENT (No such file or directory)

23337 <... close resumed>) = 0

23259 openat(AT\_FDCWD, "/usr/lib/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libgssapi\_krb5.so.2", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23259 <... openat resumed>) = -1 ENOENT (No such file or directory)

23337 <... openat resumed>) = 3

23259 newfstatat(AT\_FDCWD, "/usr/lib", <unfinished ...>

23337 read(3, <unfinished ...>

23259 <... newfstatat resumed>{st\_mode=S\_IFDIR|0755, st\_size=4096, ...}, 0) = 0

23337 <... read resumed>"\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

23259 munmap(0x7fcafb9e0000, 26550 <unfinished ...>

23337 newfstatat(3, "", <unfinished ...>

23259 <... munmap resumed>) = 0

23337 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=338680, ...}, AT\_EMPTY\_PATH) = 0

23259 openat(AT\_FDCWD, "/etc/protocols", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23337 mmap(NULL, 337152, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

23259 <... openat resumed>) = 3

23337 <... mmap resumed>) = 0x7f66bfe11000

23259 newfstatat(3, "", <unfinished ...>

23337 mmap(0x7f66bfe1d000, 221184, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xc000 <unfinished ...>

23259 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=3144, ...}, AT\_EMPTY\_PATH) = 0

23337 <... mmap resumed>) = 0x7f66bfe1d000

23259 lseek(3, 0, SEEK\_SET <unfinished ...>

23337 mmap(0x7f66bfe53000, 53248, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x42000 <unfinished ...>

23259 <... lseek resumed>) = 0

23337 <... mmap resumed>) = 0x7f66bfe53000

23259 read(3, <unfinished ...>

23337 mmap(0x7f66bfe60000, 16384, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4f000 <unfinished ...>

23259 <... read resumed>"# Internet (IP) protocols\n#\n# Up"..., 4096) = 3144

23337 <... mmap resumed>) = 0x7f66bfe60000

23259 read(3, <unfinished ...>

23337 close(3 <unfinished ...>

23259 <... read resumed>"", 4096) = 0

23337 <... close resumed>) = 0

23259 close(3 <unfinished ...>

23337 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libm.so.6", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23259 <... close resumed>) = 0

23337 <... openat resumed>) = 3

23259 eventfd2(0, EFD\_CLOEXEC <unfinished ...>

23337 read(3, <unfinished ...>

23259 <... eventfd2 resumed>) = 3

23337 <... read resumed>"\177ELF\2\1\1\3\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

23259 fcntl(3, F\_GETFL <unfinished ...>

23337 newfstatat(3, "", <unfinished ...>

23259 <... fcntl resumed>) = 0x2 (flags O\_RDWR)

23337 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=907784, ...}, AT\_EMPTY\_PATH) = 0

23259 fcntl(3, F\_SETFL, O\_RDWR|O\_NONBLOCK <unfinished ...>

23337 mmap(NULL, 909560, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

23259 <... fcntl resumed>) = 0

23337 <... mmap resumed>) = 0x7f66bfd32000

23259 fcntl(3, F\_GETFL <unfinished ...>

23337 mmap(0x7f66bfd42000, 471040, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x10000 <unfinished ...>

23259 <... fcntl resumed>) = 0x802 (flags O\_RDWR|O\_NONBLOCK)

23337 <... mmap resumed>) = 0x7f66bfd42000

23259 fcntl(3, F\_SETFL, O\_RDWR|O\_NONBLOCK <unfinished ...>

23337 mmap(0x7f66bfdb5000, 368640, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x83000 <unfinished ...>

23259 <... fcntl resumed>) = 0

23337 <... mmap resumed>) = 0x7f66bfdb5000

23259 getpid( <unfinished ...>

23337 mmap(0x7f66bfe0f000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xdc000 <unfinished ...>

23259 <... getpid resumed>) = 23259

23337 <... mmap resumed>) = 0x7f66bfe0f000

23259 getpid( <unfinished ...>

23337 close(3 <unfinished ...>

23259 <... getpid resumed>) = 23259

23337 <... close resumed>) = 0

23259 getrandom( <unfinished ...>

23337 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libmd.so.0", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23259 <... getrandom resumed>"\x7a\xb6\x91\x09\x26\x9b\xc2\x19\x0b\x15\x50\x15\xf1\x5f\xad\x86", 16, 0) = 16

23337 <... openat resumed>) = 3

23259 getrandom( <unfinished ...>

23337 read(3, <unfinished ...>

23259 <... getrandom resumed>"\xad\xde\x6f\xf4\x6f\x34\x78\x63\x43\x45\xfa\x8b\xbf\xc4\x35\xbb", 16, 0) = 16

23337 <... read resumed>"\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

23259 eventfd2(0, EFD\_CLOEXEC <unfinished ...>

23337 newfstatat(3, "", <unfinished ...>

23259 <... eventfd2 resumed>) = 4

23337 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=47312, ...}, AT\_EMPTY\_PATH) = 0

23259 fcntl(4, F\_GETFL <unfinished ...>

23337 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

23259 <... fcntl resumed>) = 0x2 (flags O\_RDWR)

23337 <... mmap resumed>) = 0x7f66bfd30000

23259 fcntl(4, F\_SETFL, O\_RDWR|O\_NONBLOCK <unfinished ...>

23337 mmap(NULL, 49384, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

23259 <... fcntl resumed>) = 0

23337 <... mmap resumed>) = 0x7f66bfd23000

23259 fcntl(4, F\_GETFL <unfinished ...>

23337 mmap(0x7f66bfd25000, 28672, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000 <unfinished ...>

23259 <... fcntl resumed>) = 0x802 (flags O\_RDWR|O\_NONBLOCK)

23337 <... mmap resumed>) = 0x7f66bfd25000

23259 fcntl(4, F\_SETFL, O\_RDWR|O\_NONBLOCK <unfinished ...>

23337 mmap(0x7f66bfd2c000, 8192, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x9000 <unfinished ...>

23259 <... fcntl resumed>) = 0

23337 <... mmap resumed>) = 0x7f66bfd2c000

23259 getpid( <unfinished ...>

23337 mmap(0x7f66bfd2e000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xa000 <unfinished ...>

23259 <... getpid resumed>) = 23259

23337 <... mmap resumed>) = 0x7f66bfd2e000

23259 epoll\_create1(EPOLL\_CLOEXEC <unfinished ...>

23337 close(3 <unfinished ...>

23259 <... epoll\_create1 resumed>) = 5

23337 <... close resumed>) = 0

23259 epoll\_ctl(5, EPOLL\_CTL\_ADD, 4, {events=0, data={u32=1359313664, u64=94860007013120}} <unfinished ...>

23337 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libpthread.so.0", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23259 <... epoll\_ctl resumed>) = 0

23337 <... openat resumed>) = 3

23259 epoll\_ctl(5, EPOLL\_CTL\_MOD, 4, {events=EPOLLIN, data={u32=1359313664, u64=94860007013120}} <unfinished ...>

23337 read(3, <unfinished ...>

23259 <... epoll\_ctl resumed>) = 0

23337 <... read resumed>"\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

23259 getpid( <unfinished ...>

23337 newfstatat(3, "", <unfinished ...>

23259 <... getpid resumed>) = 23259

23337 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=14480, ...}, AT\_EMPTY\_PATH) = 0

23259 rt\_sigaction(SIGRT\_1, {sa\_handler=0x7fcafb52d6a0, sa\_mask=[], sa\_flags=SA\_RESTORER|SA\_ONSTACK|SA\_RESTART|SA\_SIGINFO, sa\_restorer=0x7fcafb4e3050}, <unfinished ...>

23337 mmap(NULL, 16400, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

23259 <... rt\_sigaction resumed>NULL, 8) = 0

23337 <... mmap resumed>) = 0x7f66bfd1e000

23259 rt\_sigprocmask(SIG\_UNBLOCK, [RTMIN RT\_1], <unfinished ...>

23337 mmap(0x7f66bfd1f000, 4096, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x1000 <unfinished ...>

23259 <... rt\_sigprocmask resumed>NULL, 8) = 0

23337 <... mmap resumed>) = 0x7f66bfd1f000

23259 mmap(NULL, 8392704, PROT\_NONE, MAP\_PRIVATE|MAP\_ANONYMOUS|MAP\_STACK, -1, 0 <unfinished ...>

23337 mmap(0x7f66bfd20000, 4096, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000 <unfinished ...>

23259 <... mmap resumed>) = 0x7fcafa839000

23337 <... mmap resumed>) = 0x7f66bfd20000

23259 mprotect(0x7fcafa83a000, 8388608, PROT\_READ|PROT\_WRITE <unfinished ...>

23337 mmap(0x7f66bfd21000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000 <unfinished ...>

23259 <... mprotect resumed>) = 0

23337 <... mmap resumed>) = 0x7f66bfd21000

23259 rt\_sigprocmask(SIG\_BLOCK, ~[], <unfinished ...>

23337 close(3 <unfinished ...>

23259 <... rt\_sigprocmask resumed>[], 8) = 0

23337 <... close resumed>) = 0

23259 clone3({flags=CLONE\_VM|CLONE\_FS|CLONE\_FILES|CLONE\_SIGHAND|CLONE\_THREAD|CLONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID|CLONE\_CHILD\_CLEARTID, child\_tid=0x7fcafb039990, parent\_tid=0x7fcafb039990, exit\_signal=0, stack=0x7fcafa839000, stack\_size=0x7ffd00, tls=0x7fcafb0396c0} <unfinished ...>

23337 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libkrb5.so.3", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23259 <... clone3 resumed> => {parent\_tid=[23338]}, 88) = 23338

23337 <... openat resumed>) = 3

23259 rt\_sigprocmask(SIG\_SETMASK, [], <unfinished ...>

23338 rseq(0x7fcafb039fe0, 0x20, 0, 0x53053053 <unfinished ...>

23259 <... rt\_sigprocmask resumed>NULL, 8) = 0

23337 read(3, <unfinished ...>

23259 eventfd2(0, EFD\_CLOEXEC <unfinished ...>

23338 <... rseq resumed>) = 0

23259 <... eventfd2 resumed>) = 6

23337 <... read resumed>"\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

23259 fcntl(6, F\_GETFL <unfinished ...>

23338 set\_robust\_list(0x7fcafb0399a0, 24 <unfinished ...>

23259 <... fcntl resumed>) = 0x2 (flags O\_RDWR)

23337 newfstatat(3, "", <unfinished ...>

23259 fcntl(6, F\_SETFL, O\_RDWR|O\_NONBLOCK <unfinished ...>

23338 <... set\_robust\_list resumed>) = 0

23259 <... fcntl resumed>) = 0

23337 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=888080, ...}, AT\_EMPTY\_PATH) = 0

23259 fcntl(6, F\_GETFL <unfinished ...>

23338 rt\_sigprocmask(SIG\_SETMASK, [], <unfinished ...>

23259 <... fcntl resumed>) = 0x802 (flags O\_RDWR|O\_NONBLOCK)

23337 mmap(NULL, 890784, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

23259 fcntl(6, F\_SETFL, O\_RDWR|O\_NONBLOCK <unfinished ...>

23338 <... rt\_sigprocmask resumed>NULL, 8) = 0

23259 <... fcntl resumed>) = 0

23337 <... mmap resumed>) = 0x7f66bfc44000

23259 getpid( <unfinished ...>

23338 rt\_sigprocmask(SIG\_BLOCK, ~[RTMIN RT\_1], <unfinished ...>

23259 <... getpid resumed>) = 23259

23337 mmap(0x7f66bfc67000, 389120, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x23000 <unfinished ...>

23259 epoll\_create1(EPOLL\_CLOEXEC <unfinished ...>

23338 <... rt\_sigprocmask resumed>NULL, 8) = 0

23259 <... epoll\_create1 resumed>) = 7

23337 <... mmap resumed>) = 0x7f66bfc67000

23259 epoll\_ctl(7, EPOLL\_CTL\_ADD, 6, {events=0, data={u32=1359317584, u64=94860007017040}} <unfinished ...>

23338 sched\_getparam(23338, <unfinished ...>

23259 <... epoll\_ctl resumed>) = 0

23337 mmap(0x7f66bfcc6000, 294912, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x82000 <unfinished ...>

23259 epoll\_ctl(7, EPOLL\_CTL\_MOD, 6, {events=EPOLLIN, data={u32=1359317584, u64=94860007017040}} <unfinished ...>

23338 <... sched\_getparam resumed>[0]) = 0

23259 <... epoll\_ctl resumed>) = 0

23338 sched\_getscheduler(23338 <unfinished ...>

23337 <... mmap resumed>) = 0x7f66bfcc6000

23259 mmap(NULL, 8392704, PROT\_NONE, MAP\_PRIVATE|MAP\_ANONYMOUS|MAP\_STACK, -1, 0 <unfinished ...>

23338 <... sched\_getscheduler resumed>) = 0 (SCHED\_OTHER)

23259 <... mmap resumed>) = 0x7fcafa038000

23337 mmap(0x7f66bfd0e000, 65536, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xc9000 <unfinished ...>

23259 mprotect(0x7fcafa039000, 8388608, PROT\_READ|PROT\_WRITE <unfinished ...>

23338 sched\_setscheduler(23338, SCHED\_OTHER, [0] <unfinished ...>

23259 <... mprotect resumed>) = 0

23337 <... mmap resumed>) = 0x7f66bfd0e000

23259 rt\_sigprocmask(SIG\_BLOCK, ~[], <unfinished ...>

23338 <... sched\_setscheduler resumed>) = 0

23259 <... rt\_sigprocmask resumed>[], 8) = 0

23337 close(3 <unfinished ...>

23259 clone3({flags=CLONE\_VM|CLONE\_FS|CLONE\_FILES|CLONE\_SIGHAND|CLONE\_THREAD|CLONE\_SYSVSEM|CLONE\_SETTLS|CLONE\_PARENT\_SETTID|CLONE\_CHILD\_CLEARTID, child\_tid=0x7fcafa838990, parent\_tid=0x7fcafa838990, exit\_signal=0, stack=0x7fcafa038000, stack\_size=0x7ffd00, tls=0x7fcafa8386c0} <unfinished ...>

23338 prctl(PR\_SET\_NAME, "ZMQbg/Reaper" <unfinished ...>

23337 <... openat resumed>) = 3

23259 recvmsg(9, <unfinished ...>

23337 read(3, <unfinished ...>

23259 <... recvmsg resumed>{msg\_name={sa\_family=AF\_NETLINK, nl\_pid=0, nl\_groups=00000000}, msg\_namelen=12, msg\_iov=[{iov\_base=[[{nlmsg\_len=76, nlmsg\_type=RTM\_NEWADDR, nlmsg\_flags=NLM\_F\_MULTI, nlmsg\_seq=1734028239, nlmsg\_pid=23259}, {ifa\_family=AF\_INET, ifa\_prefixlen=8, ifa\_flags=IFA\_F\_PERMANENT, ifa\_scope=RT\_SCOPE\_HOST, ifa\_index=if\_nametoindex("lo")}, [[{nla\_len=8, nla\_type=IFA\_ADDRESS}, inet\_addr("127.0.0.1")], [{nla\_len=8, nla\_type=IFA\_LOCAL}, inet\_addr("127.0.0.1")], [{nla\_len=7, nla\_type=IFA\_LABEL}, "lo"], [{nla\_len=8, nla\_type=IFA\_FLAGS}, IFA\_F\_PERMANENT], [{nla\_len=20, nla\_type=IFA\_CACHEINFO}, {ifa\_prefered=4294967295, ifa\_valid=4294967295, cstamp=8207426, tstamp=8207426}]]], [{nlmsg\_len=88, nlmsg\_type=RTM\_NEWADDR, nlmsg\_flags=NLM\_F\_MULTI, nlmsg\_seq=1734028239, nlmsg\_pid=23259}, {ifa\_family=AF\_INET, ifa\_prefixlen=16, ifa\_flags=IFA\_F\_PERMANENT, ifa\_scope=RT\_SCOPE\_UNIVERSE, ifa\_index=if\_nametoindex("eth0")}, [[{nla\_len=8, nla\_type=IFA\_ADDRESS}, inet\_addr("172.17.0.2")], [{nla\_len=8, nla\_type=IFA\_LOCAL}, inet\_addr("172.17.0.2")], [{nla\_len=8, nla\_type=IFA\_BROADCAST}, inet\_addr("172.17.255.255")], [{nla\_len=9, nla\_type=IFA\_LABEL}, "eth0"], [{nla\_len=8, nla\_type=IFA\_FLAGS}, IFA\_F\_PERMANENT], [{nla\_len=20, nla\_type=IFA\_CACHEINFO}, {ifa\_prefered=4294967295, ifa\_valid=4294967295, cstamp=8207446, tstamp=8207446}]]]], iov\_len=4096}], msg\_iovlen=1, msg\_controllen=0, msg\_flags=0}, 0) = 164

23337 <... read resumed>"\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

23259 recvmsg(9, <unfinished ...>

23337 newfstatat(3, "", <unfinished ...>

23259 <... recvmsg resumed>{msg\_name={sa\_family=AF\_NETLINK, nl\_pid=0, nl\_groups=00000000}, msg\_namelen=12, msg\_iov=[{iov\_base=[{nlmsg\_len=72, nlmsg\_type=RTM\_NEWADDR, nlmsg\_flags=NLM\_F\_MULTI, nlmsg\_seq=1734028239, nlmsg\_pid=23259}, {ifa\_family=AF\_INET6, ifa\_prefixlen=128, ifa\_flags=IFA\_F\_PERMANENT, ifa\_scope=RT\_SCOPE\_HOST, ifa\_index=if\_nametoindex("lo")}, [[{nla\_len=20, nla\_type=IFA\_ADDRESS}, inet\_pton(AF\_INET6, "::1")], [{nla\_len=20, nla\_type=IFA\_CACHEINFO}, {ifa\_prefered=4294967295, ifa\_valid=4294967295, cstamp=8207426, tstamp=8207426}], [{nla\_len=8, nla\_type=IFA\_FLAGS}, IFA\_F\_PERMANENT]]], iov\_len=4096}], msg\_iovlen=1, msg\_controllen=0, msg\_flags=0}, 0) = 72

23337 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=18344, ...}, AT\_EMPTY\_PATH) = 0

23259 recvmsg(9, <unfinished ...>

23337 mmap(NULL, 20552, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

23259 <... recvmsg resumed>{msg\_name={sa\_family=AF\_NETLINK, nl\_pid=0, nl\_groups=00000000}, msg\_namelen=12, msg\_iov=[{iov\_base=[{nlmsg\_len=20, nlmsg\_type=NLMSG\_DONE, nlmsg\_flags=NLM\_F\_MULTI, nlmsg\_seq=1734028239, nlmsg\_pid=23259}, 0], iov\_len=4096}], msg\_iovlen=1, msg\_controllen=0, msg\_flags=0}, 0) = 20

23337 <... mmap resumed>) = 0x7f66bfc11000

23259 close(9 <unfinished ...>

23337 mmap(0x7f66bfc13000, 4096, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000 <unfinished ...>

23259 <... close resumed>) = 0

23337 <... mmap resumed>) = 0x7f66bfc13000

23259 **socket**(AF\_INET, SOCK\_STREAM|SOCK\_CLOEXEC, IPPROTO\_TCP <unfinished ...>

23337 mmap(0x7f66bfc14000, 4096, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x3000 <unfinished ...>

23259 <... socket resumed>) = 9

23337 <... mmap resumed>) = 0x7f66bfc14000

23259 setsockopt(9, SOL\_SOCKET, SO\_REUSEADDR, [1], 4 <unfinished ...>

23337 mmap(0x7f66bfc15000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x3000 <unfinished ...>

23259 <... setsockopt resumed>) = 0

23337 <... mmap resumed>) = 0x7f66bfc15000

23259 **bind**(9, {sa\_family=AF\_INET, sin\_port=htons(5556), sin\_addr=inet\_addr("127.0.0.1")}, 16 <unfinished ...>

23337 close(3 <unfinished ...>

23259 <... bind resumed>) = 0

23337 <... close resumed>) = 0

23259 listen(9, 100 <unfinished ...>

23337 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libkrb5support.so.0", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23259 <... listen resumed>) = 0

23337 <... openat resumed>) = 3

23259 getsockname(9, <unfinished ...>

23337 read(3, <unfinished ...>

23259 <... getsockname resumed>{sa\_family=AF\_INET, sin\_port=htons(5556), sin\_addr=inet\_addr("127.0.0.1")}, [128 => 16]) = 0

23337 <... read resumed>"\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

23259 getsockname(9, <unfinished ...>

23337 newfstatat(3, "", <unfinished ...>

23259 <... getsockname resumed>{sa\_family=AF\_INET, sin\_port=htons(5556), sin\_addr=inet\_addr("127.0.0.1")}, [128 => 16]) = 0

23337 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=52224, ...}, AT\_EMPTY\_PATH) = 0

23259 getpid( <unfinished ...>

23337 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0 <unfinished ...>

23259 <... getpid resumed>) = 23259

23337 <... mmap resumed>) = 0x7f66bfc0f000

23259 write(6, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>

23337 mmap(NULL, 54632, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

23259 <... write resumed>) = 8

23339 <... epoll\_wait resumed>[{events=EPOLLIN, data={u32=1359317584, u64=94860007017040}}], 256, -1) = 1

23259 getpid( <unfinished ...>

23337 <... mmap resumed>) = 0x7f66bfc01000

23259 <... getpid resumed>) = 23259

23339 getpid( <unfinished ...>

23259 write(8, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>

23337 mmap(0x7f66bfc04000, 24576, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x3000 <unfinished ...>

23259 <... write resumed>) = 8

23339 <... getpid resumed>) = 23259

23259 newfstatat(1, "", <unfinished ...>

23337 <... mmap resumed>) = 0x7f66bfc04000

23259 <... newfstatat resumed>{st\_mode=S\_IFCHR|0620, st\_rdev=makedev(0x88, 0), ...}, AT\_EMPTY\_PATH) = 0

23339 poll([{fd=6, events=POLLIN}], 1, 0 <unfinished ...>

23259 write(1, "Ok: 23337\n", 10 <unfinished ...>

23337 mmap(0x7f66bfc0a000, 12288, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x9000 <unfinished ...>

23259 <... write resumed>) = 10

23339 <... poll resumed>) = 1 ([{fd=6, revents=POLLIN}])

23259 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>

23337 <... mmap resumed>) = 0x7f66bfc0a000

23339 getpid( <unfinished ...>

23337 mmap(0x7f66bfc0d000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xb000 <unfinished ...>

23339 <... getpid resumed>) = 23259

23337 <... mmap resumed>) = 0x7f66bfc0d000

23339 read(6, <unfinished ...>

23337 close(3 <unfinished ...>

23339 <... read resumed>"\1\0\0\0\0\0\0\0", 8) = 8

23337 <... close resumed>) = 0

23339 mmap(NULL, 134217728, PROT\_NONE, MAP\_PRIVATE|MAP\_ANONYMOUS|MAP\_NORESERVE, -1, 0 <unfinished ...>

23337 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libkeyutils.so.1", O\_RDONLY|O\_CLOEXEC <unfinished ...>

23339 <... mmap resumed>) = 0x7fcaf2038000

23337 <... openat resumed>) = 3

23339 munmap(0x7fcaf2038000, 33325056 <unfinished ...>

23337 read(3, <unfinished ...>

23339 <... munmap resumed>) = 0

23337 <... read resumed>"\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

23339 munmap(0x7fcaf8000000, 33783808 <unfinished ...>

23337 newfstatat(3, "", <unfinished ...>

23339 <... munmap resumed>) = 0

23337 <... newfstatat resumed>{st\_mode=S\_IFREG|0644, st\_size=22448, ...}, AT\_EMPTY\_PATH) = 0

23339 mprotect(0x7fcaf4000000, 135168, PROT\_READ|PROT\_WRITE <unfinished ...>

23337 mmap(NULL, 24592, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0 <unfinished ...>

23339 <... mprotect resumed>) = 0

23337 <... mmap resumed>) = 0x7f66bfbfa000

23339 epoll\_ctl(7, EPOLL\_CTL\_ADD, 9, {events=0, data={u32=4093643632, u64=140509653764976}} <unfinished ...>

23337 mmap(0x7f66bfbfc000, 8192, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x2000 <unfinished ...>

23339 <... epoll\_ctl resumed>) = 0

23337 <... mmap resumed>) = 0x7f66bfbfc000

23339 epoll\_ctl(7, EPOLL\_CTL\_MOD, 9, {events=EPOLLIN, data={u32=4093643632, u64=140509653764976}} <unfinished ...>

23337 mmap(0x7f66bfbfe000, 4096, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000 <unfinished ...>

23339 <... epoll\_ctl resumed>) = 0

23337 <... mmap resumed>) = 0x7f66bfbfe000

23339 getpid( <unfinished ...>

23337 mmap(0x7f66bfbff000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x4000 <unfinished ...>

23339 <... getpid resumed>) = 23259

23337 <... mmap resumed>) = 0x7f66bfbff000

23339 poll([{fd=6, events=POLLIN}], 1, 0 <unfinished ...>

23337 close(3 <unfinished ...>

23339 <... poll resumed>) = 0 (Timeout)

23337 <... close resumed>) = 0

23339 epoll\_wait(7, <unfinished ...>

23337 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/libresolv.so.2", O\_RDONLY|O\_CLOEXEC) = 3

23337 read(3, "\177ELF\2\1\1\0\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\0\0\0\0\0\0\0\0"..., 832) = 832

23337 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=60328, ...}, AT\_EMPTY\_PATH) = 0

23337 mmap(NULL, 68136, PROT\_READ, MAP\_PRIVATE|MAP\_DENYWRITE, 3, 0) = 0x7f66bfbe9000

23337 mmap(0x7f66bfbec000, 32768, PROT\_READ|PROT\_EXEC, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0x3000) = 0x7f66bfbec000

23337 mmap(0x7f66bfbf4000, 8192, PROT\_READ, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xb000) = 0x7f66bfbf4000

23337 mmap(0x7f66bfbf6000, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE, 3, 0xd000) = 0x7f66bfbf6000

23337 mmap(0x7f66bfbf8000, 6696, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_FIXED|MAP\_ANONYMOUS, -1, 0) = 0x7f66bfbf8000

23337 close(3) = 0

23337 mmap(NULL, 8192, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f66bfbe7000

23337 mmap(NULL, 12288, PROT\_READ|PROT\_WRITE, MAP\_PRIVATE|MAP\_ANONYMOUS, -1, 0) = 0x7f66bfbe4000

23337 arch\_prctl(ARCH\_SET\_FS, 0x7f66bfbe49c0) = 0

23337 set\_tid\_address(0x7f66bfbe4c90) = 23337

23337 set\_robust\_list(0x7f66bfbe4ca0, 24) = 0

23337 rseq(0x7f66bfbe52e0, 0x20, 0, 0x53053053) = 0

23337 mprotect(0x7f66c021d000, 16384, PROT\_READ) = 0

23337 mprotect(0x7f66bfbf6000, 4096, PROT\_READ) = 0

23337 mprotect(0x7f66bfbff000, 4096, PROT\_READ) = 0

23337 mprotect(0x563e896f6000, 4096, PROT\_READ) = 0

23337 mprotect(0x7f66c05c1000, 8192, PROT\_READ) = 0

23337 prlimit64(0, RLIMIT\_STACK, NULL, {rlim\_cur=8192\*1024, rlim\_max=RLIM64\_INFINITY}) = 0

23337 munmap(0x7f66c0588000, 26550) = 0

23337 futex(0x7f66c04c773c, FUTEX\_WAKE\_PRIVATE, 2147483647) = 0

23337 getrandom("\x9f\x85\x90\xfb\x76\x83\xaf\x2f", 8, GRND\_NONBLOCK) = 8

23337 brk(NULL) = 0x563e8abb5000

23337 brk(0x563e8abd6000) = 0x563e8abd6000

23337 getpid() = 23337

23337 openat(AT\_FDCWD, "/sys/devices/system/cpu/online", O\_RDONLY|O\_CLOEXEC) = 3

23337 read(3, "0-17\n", 1024) = 5

23337 close(3) = 0

23337 openat(AT\_FDCWD, "/sys/devices/system/cpu/possible", O\_RDONLY|O\_CLOEXEC) = 3

23337 read(3, "0-17\n", 1024) = 5

23337 close(3) = 0

23337 getpid() = 23337

23337 sched\_getaffinity(23337, 128, [0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17]) = 32

23337 newfstatat(AT\_FDCWD, "/etc/nsswitch.conf", {st\_mode=S\_IFREG|0644, st\_size=494, ...}, 0) = 0

23337 newfstatat(AT\_FDCWD, "/", {st\_mode=S\_IFDIR|0755, st\_size=4096, ...}, 0) = 0

23337 openat(AT\_FDCWD, "/etc/nsswitch.conf", O\_RDONLY|O\_CLOEXEC) = 3

23337 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=494, ...}, AT\_EMPTY\_PATH) = 0

23337 read(3, "# /etc/nsswitch.conf\n#\n# Example"..., 4096) = 494

23337 read(3, "", 4096) = 0

23337 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=494, ...}, AT\_EMPTY\_PATH) = 0

23337 close(3) = 0

23337 openat(AT\_FDCWD, "/etc/ld.so.cache", O\_RDONLY|O\_CLOEXEC) = 3

23337 newfstatat(3, "", {st\_mode=S\_IFREG|0644, st\_size=26550, ...}, AT\_EMPTY\_PATH) = 0

23337 mmap(NULL, 26550, PROT\_READ, MAP\_PRIVATE, 3, 0) = 0x7f66c0588000

23337 close(3) = 0

23337 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/glibc-hwcaps/x86-64-v3/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

23337 newfstatat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/glibc-hwcaps/x86-64-v3", 0x7fff2a043c60, 0) = -1 ENOENT (No such file or directory)

23337 openat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/glibc-hwcaps/x86-64-v2/libnss\_db.so.2", O\_RDONLY|O\_CLOEXEC) = -1 ENOENT (No such file or directory)

23337 newfstatat(AT\_FDCWD, "/lib/x86\_64-linux-gnu/glibc-hwcaps/x86-64-v2", 0x7fff2a043c60, 0) = -1 ENOENT (No such file or directory)

23341 <... getpid resumed>) = 23337

23339 <... epoll\_ctl resumed>) = 0

23341 poll([{fd=6, events=POLLIN}], 1, 0 <unfinished ...>

23339 epoll\_ctl(7, EPOLL\_CTL\_MOD, 10, {events=EPOLLIN|EPOLLOUT, data={u32=4093643728, u64=140509653765072}} <unfinished ...>

23341 <... poll resumed>) = 1 ([{fd=6, revents=POLLIN}])

23339 <... epoll\_ctl resumed>) = 0

23341 getpid( <unfinished ...>

23339 **recvfrom**(10, <unfinished ...>

23341 <... getpid resumed>) = 23337

23339 <... recvfrom resumed>0x7fcaf40012f8, 12, 0, NULL, NULL) = -1 EAGAIN (Resource temporarily unavailable)

23341 read(6, <unfinished ...>

23339 getpid( <unfinished ...>

23341 <... read resumed>"\1\0\0\0\0\0\0\0", 8) = 8

23339 <... getpid resumed>) = 23259

23341 epoll\_ctl(7, EPOLL\_CTL\_ADD, 9, {events=0, data={u32=3087012912, u64=140079150404656}} <unfinished ...>

23339 poll([{fd=6, events=POLLIN}], 1, 0 <unfinished ...>

23341 <... epoll\_ctl resumed>) = 0

23339 <... poll resumed>) = 0 (Timeout)

23341 epoll\_ctl(7, EPOLL\_CTL\_MOD, 9, {events=EPOLLIN, data={u32=3087012912, u64=140079150404656}} <unfinished ...>

23339 epoll\_wait(7, <unfinished ...>

23341 <... epoll\_ctl resumed>) = 0

23339 <... epoll\_wait resumed>[{events=EPOLLOUT, data={u32=4093643728, u64=140509653765072}}], 256, 29999) = 1

23341 epoll\_ctl(7, EPOLL\_CTL\_MOD, 9, {events=EPOLLIN|EPOLLOUT, data={u32=3087012912, u64=140079150404656}} <unfinished ...>

23339 **sendto**(10, "\377\0\0\0\0\0\0\0\1\177", 10, 0, NULL, 0 <unfinished ...>

23341 <... epoll\_ctl resumed>) = 0

23339 <... sendto resumed>) = 10

23341 **recvfrom**(9, <unfinished ...>

23339 epoll\_ctl(7, EPOLL\_CTL\_MOD, 10, {events=EPOLLIN, data={u32=4093643728, u64=140509653765072}} <unfinished ...>

23341 <... recvfrom resumed>"\377\0\0\0\0\0\0\0\1\177", 12, 0, NULL, NULL) = 10

23339 <... epoll\_ctl resumed>) = 0

23341 **recvfrom**(9, <unfinished ...>

23339 epoll\_wait(7, <unfinished ...>

23341 <... recvfrom resumed>0x7f66b8001bf2, 2, 0, NULL, NULL) = -1 EAGAIN (Resource temporarily unavailable)

23341 getpid() = 23337

23341 poll([{fd=6, events=POLLIN}], 1, 0) = 0 (Timeout)

23341 epoll\_wait(7, [{events=EPOLLOUT, data={u32=3087012912, u64=140079150404656}}], 256, 29998) = 1

23341 **sendto**(9, "\377\0\0\0\0\0\0\0\1\177\3", 11, 0, NULL, 0) = 11

23339 <... epoll\_wait resumed>[{events=EPOLLIN, data={u32=4093643728, u64=140509653765072}}], 256, 29998) = 1

23341 epoll\_ctl(7, EPOLL\_CTL\_MOD, 9, {events=EPOLLIN, data={u32=3087012912, u64=140079150404656}} <unfinished ...>

23339 **recvfrom**(10, <unfinished ...>

23341 <... epoll\_ctl resumed>) = 0

23339 <... recvfrom resumed>"\377\0\0\0\0\0\0\0\1\177\3", 12, 0, NULL, NULL) = 11

23341 epoll\_wait(7, <unfinished ...>

23339 epoll\_ctl(7, EPOLL\_CTL\_MOD, 10, {events=EPOLLIN|EPOLLOUT, data={u32=4093643728, u64=140509653765072}}) = 0

23339 **recvfrom**(10, 0x7fcaf4001303, 53, 0, NULL, NULL) = -1 EAGAIN (Resource temporarily unavailable)

23339 epoll\_wait(7, [{events=EPOLLOUT, data={u32=4093643728, u64=140509653765072}}], 256, 29995) = 1

23339 sendto(10, "\3\1NULL\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0"..., 54, 0, NULL, 0 <unfinished ...>

23341 <... epoll\_wait resumed>[{events=EPOLLIN, data={u32=3087012912, u64=140079150404656}}], 256, 29997) = 1

23339 <... sendto resumed>) = 54

23341 recvfrom(9, <unfinished ...>

23339 epoll\_ctl(7, EPOLL\_CTL\_MOD, 10, {events=EPOLLIN, data={u32=4093643728, u64=140509653765072}} <unfinished ...>

23341 <... recvfrom resumed>"\3\1", 2, 0, NULL, NULL) = 2

23339 <... epoll\_ctl resumed>) = 0

23341 epoll\_ctl(7, EPOLL\_CTL\_MOD, 9, {events=EPOLLIN|EPOLLOUT, data={u32=3087012912, u64=140079150404656}} <unfinished ...>

23339 epoll\_wait(7, <unfinished ...>

23341 <... epoll\_ctl resumed>) = 0

23341 **recvfrom**(9, "NULL\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0"..., 52, 0, NULL, NULL) = 52

23341 recvfrom(9, 0x7f66b8003d18, 8192, 0, NULL, NULL) = -1 EAGAIN (Resource temporarily unavailable)

23341 epoll\_wait(7, [{events=EPOLLOUT, data={u32=3087012912, u64=140079150404656}}], 256, 29995) = 1

23341 **sendto**(9, "\1NULL\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0"..., 53, 0, NULL, 0) = 53

23339 <... epoll\_wait resumed>[{events=EPOLLIN, data={u32=4093643728, u64=140509653765072}}], 256, 29994) = 1

23341 epoll\_wait(7, <unfinished ...>

23339 recvfrom(10, <unfinished ...>

23341 <... epoll\_wait resumed>[{events=EPOLLOUT, data={u32=3087012912, u64=140079150404656}}], 256, 29994) = 1

23339 <... recvfrom resumed>"\1NULL\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0\0"..., 53, 0, NULL, NULL) = 53

23341 **sendto**(9, "\4)\5READY\vSocket-Type\0\0\0\6DEALER\10I"..., 43, 0, NULL, 0 <unfinished ...>

23339 epoll\_ctl(7, EPOLL\_CTL\_MOD, 10, {events=EPOLLIN|EPOLLOUT, data={u32=4093643728, u64=140509653765072}} <unfinished ...>

23341 <... sendto resumed>) = 43

23339 <... epoll\_ctl resumed>) = 0

23341 epoll\_wait(7, <unfinished ...>

23339 recvfrom(10, <unfinished ...>

23341 <... epoll\_wait resumed>[{events=EPOLLOUT, data={u32=3087012912, u64=140079150404656}}], 256, 29994) = 1

23339 <... **recvfrom** resumed>"\4)\5READY\vSocket-Type\0\0\0\6DEALER\10I"..., 8192, 0, NULL, NULL) = 43

23341 epoll\_ctl(7, EPOLL\_CTL\_MOD, 9, {events=EPOLLIN, data={u32=3087012912, u64=140079150404656}} <unfinished ...>

23339 epoll\_wait(7, <unfinished ...>

23341 <... epoll\_ctl resumed>) = 0

23339 <... epoll\_wait resumed>[{events=EPOLLOUT, data={u32=4093643728, u64=140509653765072}}], 256, 29992) = 1

23341 epoll\_wait(7, <unfinished ...>

23339 futex(0x7fcafb91f748, FUTEX\_WAKE\_PRIVATE, 2147483647) = 0

23339 **sendto**(10, "\4)\5READY\vSocket-Type\0\0\0\6DEALER\10I"..., 43, 0, NULL, 0 <unfinished ...>

23341 <... epoll\_wait resumed>[{events=EPOLLIN, data={u32=3087012912, u64=140079150404656}}], 256, 29993) = 1

23339 <... sendto resumed>) = 43

23341 **recvfrom**(9, <unfinished ...>

23339 epoll\_wait(7, <unfinished ...>

23341 <... recvfrom resumed>"\4)\5READY\vSocket-Type\0\0\0\6DEALER\10I"..., 8192, 0, NULL, NULL) = 43

23339 <... epoll\_wait resumed>[{events=EPOLLOUT, data={u32=4093643728, u64=140509653765072}}], 256, -1) = 1

23341 epoll\_ctl(7, EPOLL\_CTL\_MOD, 9, {events=EPOLLIN|EPOLLOUT, data={u32=3087012912, u64=140079150404656}} <unfinished ...>

23339 epoll\_ctl(7, EPOLL\_CTL\_MOD, 10, {events=EPOLLIN, data={u32=4093643728, u64=140509653765072}} <unfinished ...>

23341 <... epoll\_ctl resumed>) = 0

23339 <... epoll\_ctl resumed>) = 0

23341 epoll\_ctl(7, EPOLL\_CTL\_MOD, 9, {events=EPOLLIN, data={u32=3087012912, u64=140079150404656}} <unfinished ...>

23339 epoll\_wait(7, <unfinished ...>

23341 <... epoll\_ctl resumed>) = 0

23341 epoll\_wait(7, <unfinished ...>

23259 <... clock\_nanosleep resumed>NULL) = 0

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 1 ([{fd=8, revents=POLLIN}])

23259 getpid() = 23259

23259 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 pselect6(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid( <unfinished ...>

23417 <... clock\_nanosleep resumed>NULL) = 0

23259 <... getpid resumed>) = 23259

23417 getpid( <unfinished ...>

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23417 <... getpid resumed>) = 23417

23259 <... poll resumed>) = 0 (Timeout)

23417 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23417 <... poll resumed>) = 0 (Timeout)

23259 <... pselect6 resumed>) = 0 (Timeout)

23417 **clock\_nanosleep**(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

....

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23430 <... epoll\_ctl resumed>) = 0

23259 <... pselect6 resumed>) = 0 (Timeout)

23430 **sendto**(9, "\08\4\0\0\0\2\0\0\0\3\0\0\0\0\0\0\0\357+[g\0\0\0\0kol\0\312\177"..., 58, 0, NULL, 0 <unfinished ...>

23259 getpid( <unfinished ...>

23430 <... sendto resumed>) = 58

23419 <... epoll\_wait resumed>[{events=EPOLLIN, data={u32=2952793040, u64=140079016184784}}], 256, -1) = 1

23259 <... getpid resumed>) = 23259

23430 getpid( <unfinished ...>

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23419 **recvfrom**(17, <unfinished ...>

23259 <... poll resumed>) = 0 (Timeout)

23430 <... getpid resumed>) = 23417

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23419 <... recvfrom resumed>"\08\4\0\0\0\2\0\0\0\3\0\0\0\0\0\0\0\357+[g\0\0\0\0kol\0\312\177"..., 8192, 0, NULL, NULL) = 58

23259 <... pselect6 resumed>) = 0 (Timeout)

23430 poll([{fd=6, events=POLLIN}], 1, 0 <unfinished ...>

23259 getpid( <unfinished ...>

23419 getpid( <unfinished ...>

23259 <... getpid resumed>) = 23259

23430 <... poll resumed>) = 0 (Timeout)

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23419 <... getpid resumed>) = 23337

23259 <... poll resumed>) = 0 (Timeout)

23430 epoll\_wait(7, <unfinished ...>

23259 pselect6(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23419 write(15, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>

23259 <... pselect6 resumed>) = 0 (Timeout)

23430 <... epoll\_wait resumed>[{events=EPOLLOUT, data={u32=335549488, u64=140570320180272}}], 256, -1) = 1

23259 getpid( <unfinished ...>

23419 <... write resumed>) = 8

23259 <... getpid resumed>) = 23259

23430 epoll\_ctl(7, EPOLL\_CTL\_MOD, 9, {events=EPOLLIN, data={u32=335549488, u64=140570320180272}} <unfinished ...>

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23419 epoll\_wait(14, <unfinished ...>

23259 <... poll resumed>) = 0 (Timeout)

23430 <... epoll\_ctl resumed>) = 0

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23430 epoll\_wait(7, <unfinished ...>

23259 <... **pselect6** resumed>) = 0 (Timeout)

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23337 <... clock\_nanosleep resumed>NULL) = 0

23259 getpid( <unfinished ...>

23337 getpid( <unfinished ...>

23259 <... getpid resumed>) = 23259

23337 <... getpid resumed>) = 23337

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23337 poll([{fd=15, events=POLLIN}], 1, 0 <unfinished ...>

23259 <... poll resumed>) = 0 (Timeout)

23337 <... poll resumed>) = 1 ([{fd=15, revents=POLLIN}])

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23337 getpid( <unfinished ...>

23259 <... pselect6 resumed>) = 0 (Timeout)

23337 <... getpid resumed>) = 23337

23259 getpid( <unfinished ...>

23337 read(15, <unfinished ...>

23259 <... getpid resumed>) = 23259

23337 <... read resumed>"\1\0\0\0\0\0\0\0", 8) = 8

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23337 getpid( <unfinished ...>

23259 <... poll resumed>) = 0 (Timeout)

23337 <... getpid resumed>) = 23337

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23337 poll([{fd=15, events=POLLIN}], 1, 0 <unfinished ...>

23259 <... pselect6 resumed>) = 0 (Timeout)

23337 <... poll resumed>) = 0 (Timeout)

23259 <... getpid resumed>) = 23259

23337 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23341 <... poll resumed>) = 1 ([{fd=6, revents=POLLIN}])

23259 <... poll resumed>) = 0 (Timeout)

23337 <... poll resumed>) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23341 getpid( <unfinished ...>

23259 <... pselect6 resumed>) = 0 (Timeout)

23337 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>

23259 getpid( <unfinished ...>

23341 <... getpid resumed>) = 23337

23259 <... getpid resumed>) = 23259

23341 read(6, <unfinished ...>

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23341 <... read resumed>"\1\0\0\0\0\0\0\0", 8) = 8

23259 <... poll resumed>) = 0 (Timeout)

23341 epoll\_ctl(7, EPOLL\_CTL\_MOD, 9, {events=EPOLLIN|EPOLLOUT, data={u32=3087012912, u64=140079150404656}} <unfinished ...>

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23341 <... epoll\_ctl resumed>) = 0

23259 <... pselect6 resumed>) = 0 (Timeout)

23341 **sendto**(9, "\08\4\0\0\0\2\0\0\0\3\0\0\0\0\0\0\0\357+[g\0\0\0\0kol\0\312\177"..., 58, 0, NULL, 0 <unfinished ...>

23259 getpid( <unfinished ...>

23341 <... sendto resumed>) = 58

23339 <... epoll\_wait resumed>[{events=EPOLLIN, data={u32=4093643728, u64=140509653765072}}], 256, -1) = 1

23259 <... getpid resumed>) = 23259

23341 getpid( <unfinished ...>

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23339 **recvfrom**(10, <unfinished ...>

23259 <... poll resumed>) = 0 (Timeout)

23341 <... getpid resumed>) = 23337

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23339 <... recvfrom resumed>"\08\4\0\0\0\2\0\0\0\3\0\0\0\0\0\0\0\357+[g\0\0\0\0kol\0\312\177"..., 8192, 0, NULL, NULL) = 58

23259 <... pselect6 resumed>) = 0 (Timeout)

23341 poll([{fd=6, events=POLLIN}], 1, 0 <unfinished ...>

23259 getpid( <unfinished ...>

23339 getpid( <unfinished ...>

23259 <... getpid resumed>) = 23259

23341 <... poll resumed>) = 0 (Timeout)

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23430 getpid( <unfinished ...>

23259 <... pselect6 resumed>) = 0 (Timeout)

23419 **recvfrom**(17, <unfinished ...>

23259 getpid( <unfinished ...>

23430 <... getpid resumed>) = 23417

23259 <... getpid resumed>) = 23259

23419 <... recvfrom resumed>"\08\2\0\0\0\2\0\0\0\0\0\0\0\0\0\0\0\362+[g\0\0\0\0kol\0\312\177"..., 8192, 0, NULL, NULL) = 58

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23430 poll([{fd=6, events=POLLIN}], 1, 0 <unfinished ...>

23259 <... poll resumed>) = 0 (Timeout)

23419 getpid( <unfinished ...>

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23430 <... poll resumed>) = 0 (Timeout)

23259 <... pselect6 resumed>) = 0 (Timeout)

23419 <... getpid resumed>) = 23337

23259 getpid( <unfinished ...>

23430 epoll\_wait(7, <unfinished ...>

23259 <... getpid resumed>) = 23259

23419 write(15, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23430 <... epoll\_wait resumed>[{events=EPOLLOUT, data={u32=335549488, u64=140570320180272}}], 256, -1) = 1

23259 <... poll resumed>) = 0 (Timeout)

23419 <... write resumed>) = 8

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23430 epoll\_ctl(7, EPOLL\_CTL\_MOD, 9, {events=EPOLLIN, data={u32=335549488, u64=140570320180272}} <unfinished ...>

23259 <... pselect6 resumed>) = 0 (Timeout)

23419 epoll\_wait(14, <unfinished ...>

23259 getpid( <unfinished ...>

23430 <... epoll\_ctl resumed>) = 0

23259 <... getpid resumed>) = 23259

23430 epoll\_wait(7, <unfinished ...>

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

...

23259 <... poll resumed>) = 0 (Timeout)

23341 getpid( <unfinished ...>

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23337 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>

23259 <... pselect6 resumed>) = 0 (Timeout)

23341 <... getpid resumed>) = 23337

23259 getpid( <unfinished ...>

23341 read(6, <unfinished ...>

23259 <... getpid resumed>) = 23259

23341 <... read resumed>"\1\0\0\0\0\0\0\0", 8) = 8

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23341 epoll\_ctl(7, EPOLL\_CTL\_MOD, 9, {events=EPOLLIN|EPOLLOUT, data={u32=3087012912, u64=140079150404656}} <unfinished ...>

23259 <... poll resumed>) = 0 (Timeout)

23341 <... epoll\_ctl resumed>) = 0

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23341 **sendto**(9, "\08\2\0\0\0\2\0\0\0\0\0\0\0\0\0\0\0\362+[g\0\0\0\0kol\0\312\177"..., 58, 0, NULL, 0 <unfinished ...>

23259 <... pselect6 resumed>) = 0 (Timeout)

23341 <... sendto resumed>) = 58

23339 <... epoll\_wait resumed>[{events=EPOLLIN, data={u32=4093643728, u64=140509653765072}}], 256, -1) = 1

23259 getpid( <unfinished ...>

23341 getpid( <unfinished ...>

23259 <... getpid resumed>) = 23259

23339 recvfrom(10, <unfinished ...>

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23341 <... getpid resumed>) = 23337

23259 <... poll resumed>) = 0 (Timeout)

23339 <... **recvfrom** resumed>"\08\2\0\0\0\2\0\0\0\0\0\0\0\0\0\0\0\362+[g\0\0\0\0kol\0\312\177"..., 8192, 0, NULL, NULL) = 58

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23341 poll([{fd=6, events=POLLIN}], 1, 0 <unfinished ...>

23259 <... pselect6 resumed>) = 0 (Timeout)

23339 getpid( <unfinished ...>

23259 getpid( <unfinished ...>

23341 <... poll resumed>) = 0 (Timeout)

23259 <... getpid resumed>) = 23259

23339 <... getpid resumed>) = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23341 epoll\_wait(7, <unfinished ...>

23259 <... poll resumed>) = 0 (Timeout)

23339 write(8, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23341 <... epoll\_wait resumed>[{events=EPOLLOUT, data={u32=3087012912, u64=140079150404656}}], 256, -1) = 1

23259 <... pselect6 resumed>) = 0 (Timeout)

23339 <... write resumed>) = 8

23259 getpid( <unfinished ...>

23341 epoll\_ctl(7, EPOLL\_CTL\_MOD, 9, {events=EPOLLIN, data={u32=3087012912, u64=140079150404656}} <unfinished ...>

23259 <... getpid resumed>) = 23259

23339 epoll\_wait(7, <unfinished ...>

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23341 <... epoll\_ctl resumed>) = 0

23259 <... poll resumed>) = 1 ([{fd=8, revents=POLLIN}])

23341 epoll\_wait(7, <unfinished ...>

23259 getpid() = 23259

23259 read(8, "\1\0\0\0\0\0\0\0", 8) = 8

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 write(1, "Ok: 2 is available\n", 19) = 19

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

...

23417 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 pselect6(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid( <unfinished ...>

23337 <... clock\_nanosleep resumed>NULL) = 0

23259 <... getpid resumed>) = 23259

23337 getpid( <unfinished ...>

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23337 <... getpid resumed>) = 23337

23259 <... poll resumed>) = 0 (Timeout)

23337 poll([{fd=15, events=POLLIN}], 1, 0 <unfinished ...>

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL <unfinished ...>

23337 <... poll resumed>) = 0 (Timeout)

23259 <... **pselect6** resumed>) = 0 (Timeout)

23337 getpid( <unfinished ...>

23259 getpid( <unfinished ...>

23337 <... getpid resumed>) = 23337

23259 <... getpid resumed>) = 23259

23337 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23259 poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>

23337 <... poll resumed>) = 0 (Timeout)

23259 <... poll resumed>) = 0 (Timeout)

23337 clock\_nanosleep(CLOCK\_REALTIME, 0, {tv\_sec=0, tv\_nsec=100000000}, <unfinished ...>

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 ..

23259 **pselect6**(1, [0], NULL, NULL, {tv\_sec=0, tv\_nsec=0}, NULL) = 0 (Timeout)

23259 getpid() = 23259

23259 poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)

23417 <... clock\_nanosleep resumed>NULL) = ? ERESTART\_RESTARTBLOCK (Interrupted by signal)

23337 <... clock\_nanosleep resumed>NULL) = ? ERESTART\_RESTARTBLOCK (Interrupted by signal)

23259 --- SIGINT {si\_signo=SIGINT, si\_code=SI\_KERNEL} ---

23417 --- SIGINT {si\_signo=SIGINT, si\_code=SI\_KERNEL} ---

23339 <... epoll\_wait resumed> <unfinished ...>) = ?

23338 <... epoll\_wait resumed> <unfinished ...>) = ?

23337 --- SIGINT {si\_signo=SIGINT, si\_code=SI\_KERNEL} ---

23430 <... epoll\_wait resumed> <unfinished ...>) = ?

23420 <... epoll\_wait resumed> <unfinished ...>) = ?

23341 <... epoll\_wait resumed>0x7f66bf3def60, 256, -1) = ? ERESTART\_RESTARTBLOCK (Interrupted by signal)

23339 +++ killed by SIGINT +++

23430 +++ killed by SIGINT +++

23420 +++ killed by SIGINT +++

23419 <... epoll\_wait resumed> <unfinished ...>) = ?

23418 <... epoll\_wait resumed> <unfinished ...>) = ?

23417 +++ killed by SIGINT +++

23341 +++ killed by SIGINT +++

23340 <... epoll\_wait resumed> <unfinished ...>) = ?

23338 +++ killed by SIGINT +++

23259 +++ killed by SIGINT +++

23419 +++ killed by SIGINT +++

23418 +++ killed by SIGINT +++

23340 +++ killed by SIGINT +++

23337 +++ killed by SIGINT +++

**Вывод**

Очень понравилось выполнять данную лабораторную работу. Было крайне интересно изучить очереди сообщений и потратить большое число времени на отладку отправки и приему сообщений через неё. Очередь сообщений является эффективным инструментом для межпроцессорного взаимодействия, так как позволяет легко асинхронно обмениваться сообщениями и масштабировать систему, а так же синхронизировать процессы, выполняющие действия с разными скоростями, что очень важно в клиент-серверной архитектуре. ZeroMQ является удобной и эффективной библиотекой для создания пользовательских очередей сообщений.