# Московский Авиационный Институт

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# Лабораторная работа №5-7 по курсу «Операционные системы»

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# Постановка задачи

### Вариант 25.

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. При убийстве («kill -9») любого вычислительного узла система должна пытаться максимально сохранять свою работоспособность, а именно все дочерние узлы убитого узла могут стать недоступными, но родительские узлы должны сохранить свою работоспособность.

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. Если топологией не предусмотрено введение данного параметра, то его необходимо игнорировать (если его ввели)

### Формат вывода:

«Ok: pid», где pid – идентификатор процесса для созданного вычислительного узла

«Error: Already exists» - вычислительный узел с таким идентификатором уже существует

«Error: Parent not found» - нет такого родительского узла с таким идентификатором

«Error: Parent is unavailable» - родительский узел существует, но по каким-то причинам с ним не удается связаться

«Error: [Custom error]» - любая другая обрабатываемая ошибка

Примечания: создание нового управляющего узла осуществляется пользователем программы при помощи запуска исполняемого файла. Id и pid — это разные идентификаторы.

### • Исполнение команды на вычислительном узле

Формат команды: exec id [params]

id – целочисленный идентификатор вычислительного узла, на который отправляется команда Формат вывода:

«Ok:id: [result]», где result – результат выполненной команды

«Error:id: Not found» - вычислительный узел с таким идентификатором не найден

«Error:id: Node is unavailable» - по каким-то причинам не удается связаться с вычислительным узлом

«Error:id: [Custom error]» - любая другая обрабатываемая ошибка

### • Топология

Все вычислительные узлы находятся в дереве общего вида. Есть только один управляющий узел. Чтобы добавить новый вычислительный узел к управляющему, то необходимо выполнить команду: create id -1.

# • Набора команд

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

### • Команда проверки

Формат команды: heartbit time

Каждый узел начинает сообщать раз в time миллисекунд о том, что он работоспособен. Если от узла нет сигнала в течении 4\*time миллисекунд, то должна выводится пользователю строка: «Heartbit: node id is unavailable now», где id — идентификатор недоступного вычислительного узла

# Общий метод и алгоритм решения

### Работа с процессами:

- pid t fork(void); создает новый процесс путем копирования текущего
- int execl(const char\* path, const char\* arg, ...); заменяет текущий процесс новым процессом
- pid t getpid(void); возвращает идентификатор текущего процесса

# Операции с файлами и І/О:

- int select(int nfds, fd\_set\* readfds, fd\_set\* writefds, fd\_set\* exceptfds, struct timeval\* timeout); мониторит файловые дескрипторы на готовность к операциям
- usleep(unsigned int usec); приостанавливает выполнение на заданное количество микросекунд

# Операции ZeroMQ:

- void\* zmq ctx new(void); создает новый контекст ZeroMQ
- void\* zmq socket(void\* context, int type); создает сокет ZMQ
- int zmq\_bind(void\* socket, const char\* endpoint); привязывает сокет к конечной точке
- int zmq connect(void\* socket, const char\* endpoint); подключает сокет к конечной точке
- int zmq close(void\* socket); закрывает сокет ZMQ
- int zmq ctx destroy(void\* context); завершает контекст ZMQ
- int zmq\_msg\_init(zmq\_msg\_t\* msg); инициализирует пустое сообщение
- int zmq\_msg\_init\_size(zmq\_msg\_t\* msg, size\_t size); инициализирует сообщение заданного размера
  - int zmq msg send(zmq msg t\* msg, void\* socket, int flags); отправляет сообщение
  - int zmq msg recv(zmq msg t\* msg, void\* socket, int flags); получает сообщение
  - int zmq msg close(zmq msg t\* msg); освобождает сообщение

### Алгоритм решения:

Для реализации потребуется как минимум два исполняемых файла. Управляющий узел и вычислительный. Так же сделаем несколько файлов для реализации класса сообщения, ноды, управляющей ноды и контроллера.

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. Это нужно для асинхронности, нужной по условию задачи

Создадим класс Message для, собственно, сообщения. В нем будет команда (enum) (None, Create, Ping, ExecAdd, ExecFnd, ExecErr, HeartBeat), айди адресата, буфер для числа и буфер для строки.

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.

Нода: Каждая нода ребенка будет хранить собственный адрес, контекс, сокет, айди, пид (а также, функции для обработки сообщений)

Для создания ноды используется функция create\_node. Она создаёт новый процесс функцией fork и замещает память программой вычислительного узла после команды execl, так же ключом запуска передаётся id нового узла.

Создадим неймспейс для операций zmq: отправки и получаения сообщения. Соответственно функция отправки будет брать сообщение и зная длину в байтах посылать по переданному 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 выполнения команды, отправляем команду всем своим детям и ждать ответа от хоть когонибудь 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 и отправлять ответ.

Так как мы не ждем ответа сразу, то нужен другой подход: создаем в главной ноде "ожиданющие" сообщения и каждый так цикла сверяем операцию и айди у пришедших сообщений с ожидающими.

Для реализации топологии дерева общего вида будем использовать std::list

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

### utils.h

```
#pragma once

#include <chrono>
#include "unordered_set"
#include <unistd.h>
#include <iostream>

// Command types for inter-process communication
enum class CommandType : uint8_t {
   None = 0,
   Create = 1,
   Ping = 2,
```

```
ExecAdd = 3,
    ExecFnd = 4,
    ExecErr = 5,
    HeartBeat = 6,
};

bool input_available();
std::chrono::system_clock::time_point now();
    return result;
}
```

## utils.cpp

```
#include "utils.h"

bool input_available() {
    timeval tv{0, 0};
    fd_set fds;
    FD_ZERO(&fds);
    FD_SET(STDIN_FILENO, &fds);
    select(STDIN_FILENO + 1, &fds, nullptr, nullptr, &tv);
    return FD_ISSET(STDIN_FILENO, &fds);
}

std::chrono::system_clock::time_point now() {
    return std::chrono::system_clock::now();
}
```

### message.h

```
#pragma once
#include <cstring>
#include "utils.h"
class Message {
public:
   Message() = default;
   Message(CommandType cmd, int id, int add_data)
        : command(cmd)
        , id(id)
        , add_data(add_data)
        , sent_time(std::chrono::system_clock::now())
    {}
    Message(CommandType cmd, int id, int add_data, const char* s)
       : command(cmd)
       , id(id)
        , add_data(add_data)
       , sent_time(std::chrono::system_clock::now())
       std::strncpy(val, s, sizeof(val) - 1);
        val[sizeof(val) - 1] = '\0';
    bool operator==(const Message& other) const {
        return command == other.command &&
               id == other.id &&
               add_data == other.add_data &&
               sent_time == other.sent_time;
    CommandType command{CommandType::None};
    int id{-1};
    int add_data{-1};
```

```
std::chrono::system_clock::time_point sent_time;
    char val[30]{};
};
```

#### nodes.h

```
#pragma once
#include "zmq.h"
#include "message.h"
#include <iostream>
#include <chrono>
#include <list>
#include <map>
class Node {
public:
   Node() = default;
    ~Node() {
        if (socket) zmq_close(socket);
        if (context) zmq_ctx_destroy(context);
    // Prevent copying
    Node(const Node&) = delete;
    Node& operator=(const Node&) = delete;
    // Allow moving
    Node(Node&& other) noexcept;
    Node& operator=(Node&& other) noexcept;
    bool operator==(const Node& other) const {
        return id == other.id && pid == other.pid;
    int id{-1};
    pid_t pid{-1};
    void* context{nullptr};
    void* socket{nullptr};
    std::string address;
};
// Funcs for node creation
Node create node(int id, bool is child);
Node create_process(int id);
class ComputingNode {
private:
   Node node_;
    std::map<std::string, int> dictionary_;
    std::list<Node> children ;
    std::chrono::milliseconds heartbeat = std::chrono::milliseconds::zero();
    std::chrono::system_clock::time_point last_beat = now();
    void handle_create(const Message& message);
    void handle ping(const Message& message);
    void handle_heartbeat(const Message& message);
    void handle_exec_add(const Message& message);
    void handle_exec_find(const Message& message);
    void broadcast_to_children(const Message& message);
public:
    explicit ComputingNode(int id)
```

```
: node_(create_node(id, true)) {}

void run();
};
```

### nodes.cpp

```
#include "zmq_operations.h"
Node::Node(Node&& other) noexcept
    : id(other.id)
    , pid(other.pid)
    , context(other.context)
    , socket(other.socket)
    , address(std::move(other.address))
   other.context = nullptr;
    other.socket = nullptr;
Node& Node::operator=(Node&& other) noexcept {
    if (this != &other) {
        if (socket) zmq_close(socket);
        if (context) zmq_ctx_destroy(context);
        id = other.id;
        pid = other.pid;
        context = other.context;
        socket = other.socket;
        address = std::move(other.address);
        other.context = nullptr;
       other.socket = nullptr;
    return *this;
}
Node create_node(int id, bool is_child) {
   Node node;
    node.id = id;
    node.pid = getpid();
    node.context = zmq_ctx_new();
    if (!node.context) {
        throw std::runtime_error("Failed to create ZMQ context");
    node.socket = zmq_socket(node.context, ZMQ_DEALER);
    if (!node.socket) {
        zmq_ctx_destroy(node.context);
        throw std::runtime_error("Failed to create ZMQ socket");
    node.address = "tcp://127.0.0.1:" + std::to_string(5555 + id);
    int rc = is_child
        ? zmq connect(node.socket, node.address.c str())
        : zmq_bind(node.socket, node.address.c_str());
    if (rc != 0) {
        throw std::runtime_error("Failed to " +
            std::string(is_child ? "connect" : "bind") +
            " ZMQ socket");
```

```
return node;
Node create process(int id) {
    pid_t pid = fork();
    if (pid == 0) {
        execl("./computing", "computing", std::to_string(id).c_str(), nullptr);
        std::cerr << "execl failed: " << strerror(errno) << std::endl;</pre>
        exit(1);
    if (pid == -1) {
        throw std::runtime_error("Fork failed: " +
            std::string(strerror(errno)));
    Node node = create_node(id, false);
    node.pid = pid;
    return node;
void ComputingNode::handle_create(const Message& message) {
    if (message.id == node .id) {
        Node child = create_process(message.add_data);
        children_.push_back(std::move(child));
        zmq_lib::send_message(node_, Message(CommandType::Create, child.id, child.pid));
    } else {
        broadcast to children(message);
}
void ComputingNode::handle_ping(const Message& message) {
    if (message.id == node_.id) {
        zmq_lib::send_message(node_, message);
    } else {
        broadcast_to_children(message);
}
void ComputingNode::handle heartbeat(const Message& message) {
    heartbeat = std::chrono::milliseconds(message.add data);
    broadcast_to_children(message);
void ComputingNode::handle_exec_add(const Message& message) {
    if (message.id == node_.id) {
        dictionary_[std::string(message.val)] = message.add_data;
        zmq_lib::send_message(node_, message);
    } else {
        broadcast_to_children(message);
}
void ComputingNode::handle_exec_find(const Message& message) {
    if (message.id == node .id) {
        auto it = dictionary_.find(std::string(message.val));
        if (it != dictionary .end()) {
            zmq_lib::send_message(node_, Message(CommandType::ExecFnd,
                node_.id, it->second, message.val));
            zmq_lib::send_message(node_, Message(CommandType::ExecErr,
                node_.id, -1, message.val));
        broadcast_to_children(message);
```

```
void ComputingNode::broadcast_to_children(const Message& message) {
    for (auto& child : children_) {
        zmq_lib::send_message(child, message);
void ComputingNode::run() {
    while (true) {
        for (auto& child : children_) {
            Message message = zmq_lib::receive_message(child);
            if (message.command != CommandType::None) {
                zmq_lib::send_message(node_, message);
        if (heartbeat > std::chrono::milliseconds::zero() &&
            std::chrono::duration_cast<std::chrono::milliseconds>(
                now() - last_beat).count() > heartbeat.count())
            zmq_lib::send_message(node_, Message(CommandType::HeartBeat, node_.id, -1));
            last_beat = now();
        // Handle parent messages
        Message message = zmq_lib::receive_message(node_);
        switch (message.command) {
        case CommandType::Create:
                handle_create(message);
                break;
        case CommandType::Ping:
                handle_ping(message);
                break;
        case CommandType::HeartBeat:
            handle_heartbeat(message);
        case CommandType::ExecAdd:
            handle_exec_add(message);
            break;
        case CommandType::ExecFnd:
            handle_exec_find(message);
            break;
        default:
            break;
        usleep(100000);
```

# zmq\_operations.h

```
#pragma once

#include "nodes.h"

namespace zmq_lib {
    void send_message(Node& node, const Message& msg);
    Message receive_message(Node& node);
}
```

### zmq operations.cpp

```
#include "zmq_operations.h"
namespace zmq lib {
    void send_message(Node& node, const Message& msg) {
        zmq_msg_t message;
        zmq_msg_init_size(&message, sizeof(msg));
        std::memcpy(zmq_msg_data(&message), &msg, sizeof(msg));
        zmq_msg_send(&message, node.socket, ZMQ_DONTWAIT);
        zmq_msg_close(&message);
    Message receive_message(Node& node) {
        zmq_msg_t message;
        zmq msg init(&message);
        if (zmq_msg_recv(&message, node.socket, ZMQ_DONTWAIT) == -1) {
            zmq_msg_close(&message);
            return Message(CommandType::None, -1, -1);
        Message msg;
        std::memcpy(&msg, zmq_msg_data(&message), sizeof(Message));
        zmq_msg_close(&message);
        return msg;
```

## child.cpp

```
#include "nodes.h"

int main(int argc, char* argv[]) {
    if (argc != 2) {
        std::cerr << "Usage: " << argv[0] << " <node_id>" << std::endl;
        return 1;
    }

    try {
        ComputingNode node(std::atoi(argv[1]));
        node.run();
    } catch (const std::exception& e) {
        std::cerr << "Error: " << e.what() << std::endl;
        return 1;
    }
    return 0;
}</pre>
```

### control.cpp

```
beat tracker[message.id] = now();
                std::cout << "Ok: " << message.add_data << std::endl;</pre>
                remove_pending_message(CommandType::Create, message.id);
                break;
            case CommandType::Ping:
                std::cout << "Ok: " << message.id << " is available" << std::endl;</pre>
                remove_pending_message(CommandType::Ping, message.id);
                break;
            case CommandType::ExecErr:
                std::cout << "Ok: " << message.id << " '" << message.val << "' not found" <<</pre>
std::endl;
                remove_pending_message(CommandType::ExecFnd, message.id);
                break;
            case CommandType::ExecAdd:
                std::cout << "Ok: " << message.id << std::endl;</pre>
                remove_pending_message(CommandType::ExecAdd, message.id);
                break;
            case CommandType::ExecFnd:
                std::cout << "Ok: " << message.id << " '" << message.val << "' " <<</pre>
message.add_data << std::endl;</pre>
                remove_pending_message(CommandType::ExecFnd, message.id);
                break;
            case CommandType::HeartBeat:
                std::cout << "Ok: " << message.id << " Got beat" << std::endl;</pre>
                beat tracker[message.id] = now();
    void check_pending_messages() {
        auto now time = now();
        auto it = pending_messages_.begin();
        while (it != pending_messages_.end()) {
            if (std::chrono::duration_cast<std::chrono::seconds>(
                     now_time - it->sent_time).count() > 5) {
                handle timeout(*it);
                it = pending_messages_.erase(it);
            } else {
                ++it;
    void handle_timeout(const Message& message) {
        switch (message.command) {
            case CommandType::Ping:
                std::cout << "Error: Ok " << message.id << " is unavailable" << std::endl;</pre>
                break;
            case CommandType::Create:
                std::cout << "Error: Parent " << message.id << " is unavailable" <<</pre>
std::endl;
                break;
            case CommandType::ExecAdd:
            case CommandType::ExecFnd:
                std::cout << "Error: Node " << message.id << " is unavailable" << std::endl;</pre>
                break;
    void remove_pending_message(CommandType cmd, int id) {
        auto it = std::find_if(pending_messages_.begin(), pending_messages_.end(),
            [cmd, id](const Message& m) {
```

```
return (m.command == cmd && m.id == id) ||
                     (m.command == cmd && m.command == CommandType::Create && m.add_data ==
id);
            });
        if (it != pending_messages_.end()) {
            pending_messages_.erase(it);
    void broadcast_message(const Message& message) {
        pending_messages_.push_back(message);
        for (auto& child : children ) {
            zmq_lib::send_message(child, message);
    void handle_create_command() {
        int parent_id, child_id;
        std::cin >> child_id >> parent_id;
        if (node_ids_.count(child_id)) {
            std::cout << "Error: Node with id " << child_id << " already exists" <<</pre>
std::endl;
            return;
        if (!node_ids_.count(parent_id)) {
            std::cout << "Error: Parent with id " << parent id << " not found" << std::endl;</pre>
            return;
        if (parent_id == -1) {
            Node child = create_process(child_id);
            children_.push_back(std::move(child));
            node_ids_.insert(child_id);
            std::cout << "Ok: " << child.pid << std::endl;</pre>
            broadcast_message(Message(CommandType::Create, parent_id, child_id));
    void handle_exec_command() {
        char input[100];
        fgets(input, sizeof(input), stdin);
        int id, val;
        char key[30];
        if (sscanf(input, "%d %30s %d", &id, key, &val) == 3) {
   if (!node_ids_.count(id)) {
                 std::cout << "Error: Node with id " << id << " doesn't exist" << std::endl;</pre>
                return;
            broadcast_message(Message(CommandType::ExecAdd, id, val, key));
        else if (sscanf(input, "%d %30s", &id, key) == 2) {
            if (!node ids .count(id)) {
                std::cout << "Error: Node with id " << id << " doesn't exist" << std::endl;</pre>
                return;
            broadcast_message(Message(CommandType::ExecFnd, id, -1, key));
    void handle_ping_command() {
```

```
int id;
        std::cin >> id;
        if (!node_ids_.count(id)) {
            std::cout << "Error: Node with id " << id << " doesn't exist" << std::endl;</pre>
            broadcast_message(Message(CommandType::Ping, id, 0));
    void handle_heartbeat_command()
        int time;
        std::cin >> time;
        heartbeat = std::chrono::milliseconds(time);
        for (auto& [key, value] : beat_tracker)
            value = now();
        auto msg = Message(CommandType::HeartBeat, -1, time);
        for (auto& child : children_) {
            zmq_lib::send_message(child, msg);
    void check_beats() {
        for (auto& [key, value] : beat_tracker) {
            if (std::chrono::duration cast<std::chrono::milliseconds>(
                    now() - value).count() > 4 * heartbeat.count())
                std::cout << "Node: " << key << " has no beat!" << std::endl;</pre>
                value = now();
public:
    Controller() {
        node_ids_.insert(-1);
    void run() {
        std::string command;
        while (true) {
            // Handle messages from children
            for (auto& child : children_) {
                Message message = zmq_lib::receive_message(child);
                if (message.command != CommandType::None) {
                    handle_child_message(message);
            check_pending_messages();
            if (heartbeat > std::chrono::milliseconds::zero()) {
                check_beats();
            if (!input_available()) {
                continue;
            std::cin >> command;
            if (command == "create") {
                handle_create_command();
```

```
else if (command == "exec") {
                handle_exec_command();
            else if (command == "ping") {
                handle_ping_command();
            else if (command == "heartbeat")
                handle_heartbeat_command();
                std::cout << "Error: Command doesn't exist!" << std::endl;</pre>
};
int main() {
    try {
        Controller controller;
        controller.run();
    } catch (const std::exception& e) {
        std::cerr << "Error: " << e.what() << std::endl;</pre>
        return 1;
    return 0;
```

#### CMakeLists.txt

```
cmake minimum required(VERSION 3.10)
project(distributed_computing)
# Set C++ standard
set(CMAKE_CXX_STANDARD 20)
set(CMAKE_CXX_STANDARD_REQUIRED ON)
include_directories(src/include)
# Create library from common source files
add_library(common_lib
        src/nodes.cpp
        src/utils.cpp
        src/zmq_operations.cpp
)
# Set header include directories for the library
target_include_directories(common_lib PUBLIC ${CMAKE_CURRENT_SOURCE_DIR})
# Create executables
add_executable(control src/control.cpp)
add_executable(computing src/child.cpp)
target_link_libraries(control
        PRIVATE
        common lib
        zmq
target_link_libraries(computing
        PRIVATE
        common_lib
        zmq
```

```
# Set compile options if needed
if(CMAKE_CXX_COMPILER_ID MATCHES "GNU|Clang")
    target_compile_options(control PRIVATE -Wall -Wextra)
    target_compile_options(computing PRIVATE -Wall -Wextra)
endif()
```

# Протокол работы программы

```
den4ik2975@den4ikpc:~/CLionProjects/MAI_OS_Labs/Labs/Lab4/src$ ./control
create 1 -1
0k: 36847
create 2 1
0k: 36859
create 3 2
0k: 36922
create 4 2
0k: 36960
create 5 4
0k: 36968
exec 5 kok
Ok: 5 'kok' not found
exec 5 kok 8
0k: 5
exec 5 kok
Ok: 5 'kok' 8
exec 3 kok
Ok: 3 'kok' not found
heartbeat 2000
Ok: 1 Got beat
Ok: 2 Got beat
Ok: 3 Got beat
Ok: 4 Got beat
Ok: 5 Got beat
(kill -9 36960) - кильнули 4 процесс
Ok: 1 Got beat
Ok: 2 Got beat
Ok: 3 Got beat
Ok: 4 Got beat
Ok: 5 Got beat
Ok: 1 Got beat
Ok: 2 Got beat
Ok: 3 Got beat
Ok: 1 Got beat
Ok: 2 Got beat
Ok: 3 Got beat
Ok: 1 Got beat
Ok: 2 Got beat
Ok: 3 Got beat
Ok: 1 Got beat
Ok: 2 Got beat
Node: 4 has no beat!
Ok: 3 Got beat
Node: 5 has no beat!
Ok: 1 Got beat
Ok: 2 Got beat
Ok: 3 Got beat
Ok: 1 Got beat
Ok: 2 Got beat
Ok: 3 Got beat
Ok: 1 Got beat
Ok: 2 Got beat
```

Ok: 3 Got beat
Ok: 1 Got beat
Node: 4 has no beat!
Ok: 2 Got beat
Node: 5 has no beat!
Ok: 3 Got beat

#### Strace:

```
arch_prctl(0x3001 /* ARCH_??? */, 0x7ffefcbbeb10) = -1 EINVAL (Invalid argument)
newfstatat(3, "", {st_mode=S_IFREG|0644, st_size=141896, ...}, AT_EMPTY_PATH) = 0
openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libc.so.6", O_RDONLY|O_CLOEXEC) = 3
openat(AT FDCWD, "/lib/x86 64-linux-gnu/libpgm-5.3.so.0", O RDONLY|O CLOEXEC) = 3
openat(AT FDCWD, "/lib/x86 64-linux-gnu/libm.so.6", O RDONLY|O CLOEXEC) = 3
newfstatat(3, "", {st_mode=S_IFREG|0644, st_size=47472, ...}, AT_EMPTY_PATH) = 0
openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libpthread.so.0", O_RDONLY|O_CLOEXEC) = 3
newfstatat(3, "", {st_mode=S_IFREG|0644, st_size=21448, ...}, AT_EMPTY_PATH) = 0
openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libkrb5.so.3", O_RDONLY|O_CLOEXEC) = 3
newfstatat(3, "", {st_mode=S_IFREG|0644, st_size=827936, ...}, AT_EMPTY_PATH) = 0
newfstatat(3, "", {st_mode=S_IFREG|0644, st_size=18504, ...}, AT_EMPTY_PATH) = 0
openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libkrb5support.so.0", O_RDONLY|O_CLOEXEC) = 3
```

```
mprotect(0x7fe237038000, 36864, PROT_NONE) = 0
openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libkeyutils.so.1", O_RDONLY|O_CLOEXEC) = 3
 openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libresolv.so.2", O_RDONLY|O_CLOEXEC) = 3
 set tid address (0x7fe237013c90)
mprotect(0x7fe237696000, 16384, PROT_READ) = 0

mprotect(0x7fe237028000, 4096, PROT_READ) = 0
mprotect(0x7fe237041000, 4096, PROT_READ) = 0
mprotect(0x7fe237047000, 4096, PROT_READ) = 0
mprotect(0x7fe237075000, 4096, PROT_READ) = 0
mprotect(0x7fe237134000, 53248, PROT_READ) = 0
mprotect(0x7fe237146000, 4096, PROT_READ) = 0
mprotect(0x7fe237145000, 4096, FROI_READ) = 0
mprotect(0x7fe23723c000, 4096, PROI_READ) = 0
mprotect(0x7fe23723c000, 4096, PROI_READ) = 0
mprotect(0x7fe23728e000, 8192, PROI_READ) = 0
mprotect(0x7fe2376cb000, 4096, PROI_READ) = 0
mprotect(0x7fe237928000, 45056, PROI_READ) = 0
mprotect(0x7fe237309000, 12288, PROT_READ) = 0
mprotect(0x7fe237408000, 4096, PROT_READ) = 0
mprotect(0x7fe237464000, 4096, PROT_READ) = 0
mprotect(0x7fe23747d000, 4096, PROT_READ) = 0
mprotect(0x7fe2379cd000, 32768, PROT_READ) = 0
mprotect(0x55e07313b000, 4096, PROT_READ) = 0
 brk (NULL)
brk(0x55e09d8b7000)
 pselect6(1, [0], NULL, NULL, {tv_sec=0, tv_nsec=0}, NULL) = 1 (in [0], left {tv_sec=0,
 newfstatat(0, "", {st_mode=S_IFCHR|0620, st_rdev=makedev(0x88, 0x3), \dots}, AT_EMPTY_PATH) = 0 read(0, "create 1 -1\n", 1024) = 12
 [pid 40611] <... openat resumed>)
 [pid 40611] read(3, <unfinished ...>
[pid 40619] execve("./computing", ["computing", "1"], 0x7ffefcbbece8 /* 32 vars */ <unfinished</pre>
 [pid 40611] openat(AT_FDCWD, "/sys/devices/system/cpu",
O_RDONLY|O_NONBLOCK|O_CLOEXEC|O_DIRECTORY) = 3
 [pid 40611] getdents64(3, <unfinished ...>
[pid 40619] brk(NULL <unfinished ...>
 [pid 40619] arch_prctl(0x3001 /* ARCH_??? */, 0x7ffed3d2f270) = -1 EINVAL (Invalid argument)
                                                                            = 40611
                      sched_getaffinity(40611, 128,
  [pid 40611]
```

```
[pid 40611] <... newfstatat resumed>{st_mode=S_IFREG|0644, st_size=510, ...}, 0) = 0
[pid 40611] newfstatat(AT_FDCWD, "/", <unfinis
[pid 40619] newfstatat(3, "", <unfinished ...>
[pid 40619] <... newfstatat resumed>{st mode=S IFREG|0644, st size=22315, ...}, AT EMPTY PATH)
[pid 40611] openat(AT_FDCWD, "/etc/nsswitch.conf", O_RDONLY|O_CLOEXEC) = 3
[pid 40611] newfstatat(3, "", {st_mode=S_IFREG|0644, st_size=510, ...}, AT_EMPTY_PATH) = 0
[pid 40619] openat(AT FDCWD, "/lib/x86 64-linux-gnu/libzmq.so.5", O RDONLY|O CLOEXEC
[pid 40619] <... openat resumed>)
[pid 40611] read(3, <unfinished ...>
[pid 40619] read(3, <unfinished ...>
[pid 40611] newfstatat(3, "", <unfinished ...>
[pid 40619] newfstatat(3, "", <unfinished ...>
[pid 40611] <... newfstatat resumed>{st mode=S IFREG|0644, st size=510, ...}, AT EMPTY PATH) =
AT EMPTY PATH) = 0
[pid 40611] newfstatat(3, "", {st_mode=S_IFREG|0644, st_size=22315, ...}, AT_EMPTY_PATH) = 0 [pid 40611] openat(AT_FDCMD, "/lib/x86_64-linux-gnu/glibc-hwcaps/x86-64-v4/libnss_db.so.2",
[pid 40619] openat(AT FDCWD, "/lib/x86 64-linux-gnu/libstdc++.so.6", O RDONLY|O CLOEXEC
[pid 40611] openat(AT FDCWD, "/lib/x86 64-linux-gnu/glibc-hwcaps/x86-64-v3/libnss db.so.2",
[pid 40611] newfstatat(AT FDCWD, "/lib/x86 64-linux-gnu/glibc-hwcaps/x86-64-v2", <unfinished
[pid 40611] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/tls/x86_64/libnss_db.so.2",
O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
[pid 40611] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/tls/x86_64/libnss_db.so.2", O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
```

```
[pid 40611] <... openat resumed>)
[pid 40611] newfstatat(AT_FDCWD, "/lib/x86_64-linux-gnu/tls", <unfinished ...> [pid 40619] <... newfstatat resumed>{st_mode=S_IFREG|0644, st_size=141896, ...},
[pid 40611] newfstatat(AT_FDCWD, "/lib/x86_64-linux-gnu/x86_64/x86_64", 0x7ffefcbbb960, 0) = -1 ENOENT (No such file or directory)
[pid 40611] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/x86_64/libnss_db.so.2",
[pid 40619] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libc.so.6", O_RDONLY|O_CLOEXEC <unfinished
[pid 40619] <... openat resumed>) = \overline{3} [pid 40611] <... newfstatat resumed>0x7ffefcbbb960, 0) = -1 ENOENT (No such file or directory)
[pid 40611] <... openat resumed>)
[pid 40611] openat(AT FDCWD, "/usr/lib/x86 64-linux-gnu/glibc-hwcaps/x86-64-
[pid 40611] <... openat resumed>)
[pid 40619] pread64(3, <unfinished ...>
[pid 40611] newfstatat(AT FDCWD, "/usr/lib/x86 64-linux-gnu/glibc-hwcaps/x86-64-v4",
896) = 68
[pid 40619] newfstatat(3, "", <unfinished ...>
[pid 40611] openat(AT_FDCWD, "/usr/lib/x86_64-linux-gnu/glibc-hwcaps/x86-64-v3/libnss_db.so.2", O_RDONLY|O_CLOEXEC <unfinished ...>
[pid 40611] <... openat resumed>)
[pid 40611] newfstatat(AT FDCWD, "/usr/lib/x86 64-linux-gnu/glibc-hwcaps/x86-64-v3",
[pid 40611] openat(AT_FDCWD, "/usr/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)
[pid 40619] <... mprotect resumed>) = 0
[pid 40611] <... newfstatat resumed>0x7ffefcbbb960, 0) = -1 ENOENT (No such file or directory)
[pid 40611] openat(AT_FDCWD, "/usr/lib/x86_64-linux-gnu/tls/x86_64/x86_64/libnss_db.so.2",
```

```
[pid 40611] openat(AT_FDCWD, "/usr/lib/x86_64-linux-gnu/tls/x86_64/libnss_db.so.2",
O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
[pid 40611] newfstatat(AT_FDCWD, "/usr/lib/x86_64-linux-gnu/tls/x86_64", 0x7ffefcbbb960, 0) =
[pid 40611] newfstatat(AT_FDCWD, "/usr/lib/x86_64-linux-gnu/tls", 0x7ffefcbbb960, 0) = -1 ENOENT (No such file or directory)
[pid 40611] openat(AT FDCWD, "/usr/lib/x86 64-linux-gnu/x86 64/x86 64/libnss db.so.2",
[pid 40619] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libbsd.so.0", O RDONLY|O CLOEXEC
<unfinished ...>
[pid 40611] <... openat resumed>)
[pid 40611] newfstatat(AT FDCWD, "/usr/lib/x86 64-linux-qnu/x86 64/x86 64", <unfinished ...>
[pid 40611] <... newfstatat resumed>0x7ffefcbbb960, 0) = -1 ENOENT (No such file or directory) [pid 40619] <... read
[pid 40611] openat(AT_FDCWD, "/usr/lib/x86_64-linux-gnu/x86_64/libnss_db.so.2",
[pid 40611] <... openat resumed>) = -1 ENOENT (No such file or directory)
[pid 40619] <... newfstatat resumed>{st_mode=S_IFREG|0644, st_size=89096, ...}, AT_EMPTY_PATH)
[pid 40611] openat(AT_FDCWD, "/usr/lib/x86_64-linux-gnu/x86_64/libnss_db.so.2",
                                                = -1 ENOENT (No such file or directory)
[pid 40611] openat(AT_FDCWD, "/usr/lib/x86_64-linux-gnu/libnss_db.so.2", O_RDONLY|O_CLOEXEC) =
[pid 40611] openat(AT_FDCWD, "/lib/glibc-hwcaps/x86-64-v4/libnss_db.so.2", O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
[pid 40611] newfstatat(AT FDCWD, "/lib/glibc-hwcaps/x86-64-v4", 0x7ffefcbbb960, 0) = -1 ENOENT
(No such file or directory)
[pid 40611] openat(AT_FDCWD, "/lib/glibc-hwcaps/x86-64-v3/libnss_db.so.2", O_RDONLY|O_CLOEXEC)
[pid 40619] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libsodium.so.23", O_RDONLY|O_CLOEXEC <unfinished ...>
[pid 40611] newfstatat(AT FDCWD, "/lib/glibc-hwcaps/x86-64-v3", <unfinished ...>
[pid 40619] <... openat resumed>)
[pid 40611] openat(AT FDCWD, "/lib/glibc-hwcaps/x86-64-v2/libnss db.so.2", O RDONLY|O CLOEXEC
[pid 40619] newfstatat(3, "", <unfinished ...>
[pid 40611] newfstatat(AT_FDCWD, "/lib/glibc-hwcaps/x86-64-v2", <unfinished ...>
[pid 40611] openat(AT_FDCWD, "/lib/tls/x86_64/libnss_db.so.2", O_RDONLY|O_CLOEXEC <unfinished
[pid 40611] <... openat resumed>)
file or directory)
[pid 40611] openat(AT_FDCWD, "/lib/tls/x86_64/libnss_db.so.2", O_RDONLY|O_CLOEXEC) = -1 ENOENT
```

```
[pid 40619] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libpgm-5.3.so.0", O_RDONLY|O_CLOEXEC
[pid 40611] openat(AT_FDCWD, "/lib/x86_64/x86_64/libnss_db.so.2", O_RDONLY|O_CLOEXEC
[pid 40611] <... openat resumed>)
AT_EMPTY_PATH) = 0
[pid 40611] openat(AT_FDCWD, "/lib/x86_64/libnss_db.so.2", O_RDONLY|O_CLOEXEC) = -1 ENOENT (No
[pid 40611] openat(AT FDCWD, "/lib/libnss db.so.2", O RDONLY|O CLOEXEC) = -1 ENOENT (No such
file or directory)
[pid 40611] openat(AT_FDCWD, "/usr/lib/glibc-hwcaps/x86-64-v4/libnss db.so.2",
O_RDONLY|O_CLOEXEC <unfinished ...>
[pid 40619] <... openat resumed>)
[pid 40611] <... openat resumed>)
[pid 40619] newfstatat(3, "", <unfinished ...>
[pid 40611] openat(AT_FDCWD, "/usr/lib/glibc-hwcaps/x86-64-v3/libnss_db.so.2",
[pid 40611] openat(AT_FDCWD, "/usr/lib/glibc-hwcaps/x86-64-v2/libnss_db.so.2",
[pid 40611] openat(AT_FDCWD, "/usr/lib/tls/x86_64/x86_64/libnss_db.so.2", O_RDONLY|O_CLOEXEC)
[pid 40619] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libgssapi_krb5.so.2", O_RDONLY|O_CLOEXEC
[pid 40611] <... openat resumed>)
                                         = -1 ENOENT (No such file or directory)
```

```
[pid 40619] newfstatat(3, "", <unfinished ...>
[pid 40611] openat(AT_FDCWD, "/usr/lib/tls/libnss_db.so.2", O_RDONLY|O_CLOEXEC <unfinished</pre>
[pid 40611] openat(AT FDCWD, "/usr/lib/x86 64/x86 64/libnss db.so.2", O RDONLY|O CLOEXEC
[pid 40619] <... mprotect resumed>)
such file or directory)
[pid 40611] openat(AT FDCWD, "/usr/lib/x86 64/libnss db.so.2", O RDONLY|O CLOEXEC) = -1 ENOENT
file or directory)
[pid 40619] openat(AT FDCWD, "/lib/x86 64-linux-gnu/libm.so.6", O RDONLY|O CLOEXEC <unfinished
[pid 40619] <... openat resumed>)
[pid 40611] openat(AT_FDCWD, "/usr/lib/libnss db.so.2", O RDONLY|O CLOEXEC <unfinished ...>
                                                   = -1 ENOENT (No such file or directory)
[pid 40611] <... openat resumed>)
[pid 40611] openat(AT_FDCWD, "/etc/ld.so.cache", O_RDONLY|O_CLOEXEC) = 3
[pid 40611] newfstatat(3, "", {st_mode=S_IFREG|0644, st_size=22315, ...}, AT_EMPTY_PATH) = 0
[pid 40611] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libnss_db-2.35.so", O_RDONLY|O_CLOEXEC) =
-1 ENOENT (No such file or directory)
[pid 40619] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libmd.so.0", O RDONLY|O CLOEXEC
[pid 40611] openat(AT FDCWD, "/usr/lib/x86 64-linux-gnu/libnss db-2.35.so", O RDONLY|O CLOEXEC
[pid 40619] <... openat resumed>)
[pid 40611] <... openat resumed>)
                                                    = -1 ENOENT (No such file or directory)
[pid 40611] openat(AT FDCWD, "/lib/libnss db-2.35.so", O RDONLY|O CLOEXEC <unfinished ...>
[pid 40611] <... openat resumed>)
[pid 40619] newfstatat(3, "", <unfinished ...>
[pid 40611] openat(AT_FDCWD, "/usr/lib/libnss_db-2.35.so", O_RDONLY|O_CLOEXEC <unfinished ...>
[pid 40611] openat(AT_FDCWD, "/etc/protocols", O_RDONLY|O_CLOEXEC) = 3
[pid 40611] newfstatat(3, "", {st_mode=S_IFREG|0644, st_size=2932, ...}, AT_EMPTY_PATH) = 0
[pid 40611] lseek(3, 0, SEEK_SET) = 0

[pid 40611] read(3, "# Internet (IP) protocols\n#\n# Up"..., 4096) = 2932

[pid 40611] read(3, "", 4096) = 0
[pid 40619] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libpthread.so.0", O_RDONLY|O_CLOEXEC) = 3
[pid 40611] eventfd2(0, EFD_CLOEXEC <unfinished ...>
[pid 40611] fcntl(3, F_GETFL <unfinished ...>
[pid 40619] newfstatat(3, "", <unfinished ...>
[pid 40619] <... newfstatat resumed>{st mode=S IFREG|0644, st size=21448, ...}, AT EMPTY PATH)
[pid 40611] fcntl(3, F_SETFL, O_RDWR|O_NONBLOCK) = 0
                                                    = 0x802 (flags O RDWR|O NONBLOCK)
```

```
= 40611
[pid 40619] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libkrb5.so.3", O_RDONLY|O_CLOEXEC
[pid 40619] <... openat resumed>)
[pid 40619] newfstatat(3, "", <unfinished ...>
[pid 40611] epoll_create1(EPOLL_CLOEXEC)
[pid 40611] epoll_ctl(5, EPOLL_CTL_ADD,
u64=94423204137728}}) = 0
[pid 40611] epoll_ctl(5, EPOLL_CTL_MOD, 4, {events=EPOLLIN, data={u32=2643102464, u64=94423204137728}}) = 0
<unfinished ...>
[pid 40611] <... getpid resumed>)
                                              = 40611
<unfinished ...>
[pid 40611] rt_sigprocmask(SIG_UNBLOCK, [RTMIN RT_1], <unfinished ...>
[pid 40611] mprotect(0x7fe236811000, 8388608, PROT_READ|PROT_WRITE <unfinished ...> [pid 40619] mprotect(0x7fc31141f000, 163840, PROT_NONE <unfinished ...>
[pid 40611] rt_sigprocmask(SIG_BLOCK, ~[], [QUIT], 8) = 0
[pid 40611]
parent_tid=0x7fe237010910, exit_signal=0, stack=0x7fe236810000, stack_size=0x7ffc80,
[pid 40611] fcntl(6, F_GETFL) = 0x2 (flags O_RDWR)
[pid 40620] rt_sigprocmask(SIG_SETMASK, [QUIT], <unfinished ...>
[pid 40620] rt_sigprocmask(SIG_BLOCK, \sim[RTMIN RT_1], <unfinished ...>
                                              = 0x802 (flags O RDWR|O NONBLOCK)
```

```
[pid 40619] openat(AT FDCWD, "/lib/x86 64-linux-gnu/libcom err.so.2", O RDONLY|O CLOEXEC
[pid 40619] <... openat resumed>)
[pid 40620] sched_getparam(40620, <unfinished ...>
[pid 40611] <... getpid resumed>) = 40611
[pid 40620] <... sched_getparam resumed>[0]) = 0
u64=94423204141648}} <unfinished ...>
[pid 40611] rt_sigprocmask(SIG_BLOCK, ~[], [QUIT], 8) = 0
TLS|CLONE_PARENT_SETTID|CLONE_CHILD_CLEARTID, child_tid=0x7fe23680f910, parent_tid=0x7fe23680f910, exit_signal=0, stack=0x7fe23600f000, stack_size=0x7ffc80,
[pid 40611] <... rt_sigprocmask resumed>NULL, 8) = 0
[pid 40621] <... rseq resumed>) = 0
[pid 40621] set robust list(0x7fe23680f920, 24 <unfinished ...>
[pid 40611] <... fcntl resumed>)
[pid 40619] <... openat resumed>)
[pid 40621] <... rt_sigprocmask resumed>NULL, 8) = 0
[pid 40621] sched_getparam(40621, <unfinished ...>
```

```
[pid 40621] prctl(PR_SET_NAME, "ZMQbg/IO/0" <unfinished ...>
 [pid 40611] sendto(9, [{nlmsg_len=20, nlmsg_type=RTM_GETLINK,
    ifi_family=AF_UNSPEC, ...}], 20, 0, {sa_family=AF_NETLINK, nl_pid=0, nl_groups=00000000}, 12
[pid 40611] recvmsg(9, {msg_name={sa_family=AF_NETLINK, nl_pid=0, nl_groups=00000000}, msg_namelen=12, msg_iov=[{iov_base=[[{nlmsg_len=1348, nlmsg_type=RTM_NEWLINK, nlmsg_flags=NLM_F_MULTI, nlmsg_seq=1735081197, nlmsg_pid=40611}, {ifi_family=AF_UNSPEC,
ifi type=ARPHRD LOOPBACK, ifi index=if nametoindex("lo"),
nla_type=IFLA_IFNAME}, "lo"], [{nla_len=8, nla_type=IFLA_TXQLEN}, 1000], [{nla_len=5, nla_type=IFLA_DPERSTATE}, 0], [{nla_len=5, nla_type=IFLA_LINKMODE}, 0], [{nla_len=8, nla_type=IFLA_MTU}, 65536], [{nla_len=8, nla_type=IFLA_MIN_MTU}, 0], [{nla_len=8, nla_type=IFLA_MAX_MTU}, 0], [{nla_len=8, nla_type=IFLA_GROUP}, 0], [{nla_type=IFLA_GROUP}, 0], [{nla_type=IFLA_GROUP}, 0], [{nla_type=IFLA_GROUP}, 0], [{nla_type=IFLA_GROUP}, 0], [{nla_type=IFLA
nla_type=IFLA_PROMISCUITY}, 0], [{nla_len=8, nla_type=IFLA_NUM_TX_QUEUES}, 1], [{nla_len=8, nla_type=IFLA_GSO_MAX_SEGS}, 65535], [{nla_len=8, nla_type=IFLA_GSO_MAX_SIZE}, 65536],
[{nla_len=8, nla_type=IFLA_NUM_RX_QUEUES}, 1], [{nla_len=5, nla_type=IFLA_CARRIER}, 1], [{nla_len=12, nla_type=IFLA_QDISC}, "noqueue"], [{nla_len=8, nla_type=IFLA_CARRIER_CHANGES}, 0], [{nla_len=8, nla_type=IFLA_CARRIER_UP_COUNT}, 0], [{nla_len=8, nla_type=IFLA_CARRIER_UP_COUNT}], 0], 0], 0]
 [{nla_len=36, nla_type=IFLA_MAP}, {mem_start=0, mem_end=0, base_addr=0, irq=0, dma=0,
nla_type=IFLA_BROADCAST}, 00:00:00:00:00:00], [{nla_len=196, nla_type=IFLA_STATS64}, {rx_packets=932212, tx_packets=932212, rx_bytes=1277086855, tx_bytes=1277086855, rx_errors=0,
rx_over_errors=0, rx_crc_errors=0, rx_frame_errors=0, rx_fifo_errors=0, rx_missed errors=0,
nla_type=IFLA_STATS}, {rx_packets=932212, tx_packets=932212, rx_bytes=1277086855, tx_bytes=1277086855, rx_errors=0, tx_errors=0, rx_dropped=0, tx_dropped=0, multicast=0,
rx_nohandler=0}], [{nla_len=12, nla_type=IFLA_XDP}, [{nla_len=5, nla_type=IFLA_XDP_ATTACHED},

XDP_ATTACHED_NONE]], [{nla_len=792, nla_type=IFLA_AF_SPEC}, [[{nla_len=136, nla_type=AF_INET},

[{nla_len=132, nla_type=IFLA_INET_CONF}, [[IPV4_DEVCONF_FORWARDING-1] = 0,

[IPV4_DEVCONF_MC_FORWARDING-1] = 0, [IPV4_DEVCONF_POXY_ARP-1] = 0,

[IPV4_DEVCONF_ACCEPT_REDIRECTS-1] = 1, [IPV4_DEVCONF_SECURE_REDIRECTS-1] = 1,
 [IPV4_DEVCONF_SEND_REDIRECTS-1] = 1, [IPV4_DEVCONF_SHARED_MEDIA-1] = 1, [IPV4_DEVCONF_RP_FILTER-1] = 2, [IPV4_DEVCONF_ACCEPT_SOURCE_ROUTE-1] = 0,
 [IPV4 DEVCONF_BOOTP_RELAY-1] = 0, [IPV4_DEVCONF_LOG_MARTIANS-1] = 0, [IPV4_DEVCONF_TAG-1] = 0,
 [IPV4_DEVCONF_ARP_ANNOUNCE-1] = 0, [IPV4_DEVCONF_ARP_IGNORE-1] = 0, [IPV4_DEVCONF_PROMOTE_SECONDARIES-1] = 1, [IPV4_DEVCONF_ARP_ACCEPT-1] = 0, [IPV4_DEVCONF_ARP_NOTIFY-1] = 0, [IPV4_DEVCONF_ACCEPT_LOCAL-1] = 0, [IPV4_DEVCONF_SRC_VMARK-1]
[IPV4_DEVCONF_IGNORE_ROUTES_WITH_LINKDOWN-1] = 0, [IPV4_DEVCONF_DROP_UNICAST_IN_L2_MULTICAST-1] = 0, [IPV4_DEVCONF_DROP_GRATUITOUS_ARP-1] = 0, [IPV4_DEVCONF_BC_FORWARDING-1] = 0]]], [{nla_len=652, nla_type=AF_INET6}, [[{nla_len=8, nla_type=IFLA_INET6_FLAGS}, IF_READY],
 [[DEVCONF_FORWARDING] = 0, [DEVCONF_HOPLIMIT] = 64, [DEVCONF_MTU6] = 65536, [DEVCONF_ACCEPT_RA] = 1, [DEVCONF_ACCEPT_REDIRECTS] = 1, [DEVCONF_AUTOCONF] = 1, [DEVCONF_DAD_TRANSMITS] = 1, [DEVCONF_RTR_SOLICITS] = -1, [DEVCONF_RTR_SOLICIT_INTERVAL] =
[DEVCONF_REGEN_MAX_RETRY] = 3, [DEVCONF_MAX_DESYNC_FACTOR] = 600, [DEVCONF_MAX_ADDRESSES] = 16, [DEVCONF_FORCE_MLD_VERSION] = 0, [DEVCONF_ACCEPT_RA_DEFRTR] = 1, [DEVCONF_ACCEPT_RA_PINFO] = 1, [DEVCONF_ACCEPT_RA_RTR_PREF] = 0, [DEVCONF_RTR_PROBE_INTERVAL] = 0,
```

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[DEVCONF_ACCEPT_RA_RT_INFO_MAX_PLEN] = 0, [DEVCONF_PROXY_NDP] = 0, [DEVCONF_OPTIMISTIC_DAD]
 0, [DEVCONF_ACCEPT_SOURCE_ROUTE] = 0, [DEVCONF_MC_FORWARDING] = 0, [DEVCONF_DISABLE_IPV6] = 0,
[DEVCONF_ACCEPT_DAD] = -1, [DEVCONF_FORCE_TLLAO] = 0, [DEVCONF_NDISC_NOTIFY] = 0, [DEVCONF_MLDV1_UNSOLICITED_REPORT_INTERVAL] = 10000, [DEVCONF_MLDV2_UNSOLICITED_REPORT_INTERVAL] = 1000, ...]], [{nla_len=300,
nla_type=IFLA_INET6_STATS}, [[IPSTATS_MIB_NUM] = 37, [IPSTATS_MIB_INPKTS] = 0, [IPSTATS_MIB_INOCTETS] = 0, [IPSTATS_MIB_INDELIVERS] = 0, [IPSTATS_MIB_OUTFORWDATAGRAMS] = 0,
[IPSTATS_MIB_OUTPKTS] = 0, [IPSTATS_MIB_OUTOCTETS] = 0, [IPSTATS_MIB_INHDRERRORS] = 0, [IPSTATS_MIB_INTOOBIGERRORS] = 0, [IPSTATS_MIB_INNOROUTES] = 0, [IPSTATS_MIB_INUNKNOWNPROTOS] = 0, [IPSTATS_MIB_INTRUNCATEDPKTS] = 0,
 [IPSTATS_MIB_INDISCARDS] = 0, [IPSTATS_MIB_OUTDISCARDS] = 0, [IPSTATS_MIB_OUTNOROUTES] = 0,
 [IPSTATS_MIB_REASMTIMEOUT] = 0, [IPSTATS_MIB_REASMREQDS] = 0, [IPSTATS_MIB_REASMOKS] = 0,
[IPSTATS_MIB_REASMFAILS] = 0, [IPSTATS_MIB_FRAGOKS] = 0, [IPSTATS_MIB_FRAGFAILS] = 0, [IPSTATS_MIB_FRAGCREATES] = 0, [IPSTATS_MIB_INMCASTPKTS] = 0, [IPSTATS_MIB_INBCASTPKTS] = 0, [IPSTATS_MIB_INBCASTPKTS] = 0, [IPSTATS_MIB_INBCASTOCTETS] = 0, [IPSTATS_MIB_OUTMCASTOCTETS] = 0, [IPSTATS_MIB_OUTMCASTOCTETS] = 0,
nla_type=IFLA_INET6_ICMP6STATS}, [[ICMP6_MIB_NUM] = 6, [ICMP6_MIB_INMSGS] = 0, [ICMP6_MIB_INERRORS] = 0, [ICMP6_MIB_OUTERRORS] = 0, [ICMP6_MIB_OUTERRORS] = 0, [ICMP6_MIB_CSUMERRORS] = 0]], [{nla_len=20, nla_type=IFLA_INET6_TOKEN}, inet_pton(AF_INET6, "::")], [{nla_len=5, nla_type=IFLA_INET6_ADDR_GEN_MODE}, IN6_ADDR_GEN_MODE_EUI64]]]]]],
 [{nlmsg_len=1416, nlmsg_type=RTM_NEWLINK, nlmsg_flags=NLM_F_MULTI, nlmsg_seq=1735081197,
nlmsg_pid=40611}, {ifi_family=AF_UNSPEC, ifi_type=ARPHRD_ETHER,
 [[{nla_len=9, nla_type=IFLA_IFNAME}, "eth0"], [{nla_len=8, nla_type=IFLA_TXQLEN}, 1000], [{nla_len=5, nla_type=IFLA_OPERSTATE}, 6], [{nla_len=5, nla_type=IFLA_LINKMODE}, 0],
[{nla_len=8, nla_type=IFLA_MTU}, 1500], [{nla_len=8, nla_type=IFLA_MIN_MTU}, 68], [{nla_len=8, nla_type=IFLA_MIN_MTU}, 65521], [{nla_len=8, nla_type=IFLA_GROUP}, 0], [{nla_len=8, nla_type=IFLA_PROMISCUITY}, 0], [{nla_len=8, nla_type=IFLA_NUM_TX_QUEUES}, 64], [{nla_len=8, nla_type=IFLA_GSO_MAX_SEGS}, 65535], [{nla_len=8, nla_type=IFLA_GSO_MAX_SIZE}, 62780], [{nla_len=8, nla_type=IFLA_CARRIER}, 1], [{nla_len=7, nla_type=IFLA_QDISC}, "mq"], [{nla_len=8, nla_type=IFLA_CARRIER_CHANGES}, 1], [{nla_len=9, nla_type=IFLA_CARRIER_CHANGES}], 1], [{nla_len=1, nla_type=IFLA_CARRIER_CHANGES}], 1], [{nla_len=1, nla_type=IFLA_CARRIER_CHANGES}], 1], [{nla_len=1, nla_type=IFLA_CARRIER_CHANGES}], 1], [{nla_type=IFLA_CARRIER_CHANGES}], 1], 1]
nla_type=IFLA_CARRIER_DOWN_COUNT}, 0], [{nla_len=5, nla_type=IFLA_PROTO_DOWN}, 0], [{nla_len=36, nla_type=IFLA_MAP}, {mem_start=0, mem_end=0, base_addr=0, irq=0, dma=0, port=0}], [{nla_len=10, nla_type=IFLA_ADDRESS}, 00:15:5d:7f:bb:89], [{nla_len=10,
nla_type=IFLA_BROADCAST}, ff:ff:ff:ff:ff:ff], [{nla_len=196, nla_type=IFLA_STATS64}, {rx_packets=43636, tx_packets=43367, rx_bytes=22346850, tx_bytes=13805842, rx_errors=0,
rx_over_errors=0, rx_crc_errors=0, rx_frame_errors=0, rx_fifo_errors=0, rx_missed_errors=0,
tx_aborted_errors=0, tx_carrier_errors=0, tx_fifo_errors=0, tx_heartbeat_errors=0,
nla_type=IFLA_STATS}, {rx_packets=43636, tx_packets=43367, rx_bytes=22346850,
tx_bytes=13805842, rx_errors=0, tx_errors=0, rx_dropped=0, tx_dropped=0, multicast=386,
rx_fifo_errors=0, rx_missed_errors=0, tx_aborted_errors=0, tx_carrier_errors=0,
tx_fifo_errors=0, tx_heartbeat_errors=0, tx_window_errors=0, rx_compressed=0, tx_compressed=0,
[{nla_len=792, nla_type=IFLA_AF_SPEC}, [[{nla_len=136, nla_type=AF_INET}, [{nla_len=132, nla_type=IFLA_INET_CONF}, [[IPV4_DEVCONF_FORWARDING-1] = 0, [IPV4_DEVCONF_MC_FORWARDING-1] = 0, [IPV4_DEVCONF_PROXY_ARP-1] = 0, [IPV4_DEVCONF_ACCEPT_REDIRECTS-1] = 1, [IPV4_DEVCONF_SECURE_REDIRECTS-1] = 1,
 [IPV4 DEVCONF SHARED MEDIA-1] = 1, [IPV4 DEVCONF_RP_FILTER-1] = 2,
[IPV4_DEVCONF_ACCEPT_SOURCE_ROUTE-1] = 0, [IPV4_DEVCONF_BOOTP_RELAY-1] = 0,
[IPV4_DEVCONF_LOG_MARTIANS-1] = 0, [IPV4_DEVCONF_TAG-1] = 0, [IPV4_DEVCONF_ARPFILTER-1] = 0,
[IPV4_DEVCONF_MEDIUM_ID-1] = 0, [IPV4_DEVCONF_NOXFRM-1] = 0, [IPV4_DEVCONF_NOPOLICY-1] = 0,
[IPV4_DEVCONF_FORCE_IGMP_VERSION-1] = 0, [IPV4_DEVCONF_ARP_ANNOUNCE-1] = 0,
[IPV4_DEVCONF_ARP_IGNORE-1] = 0, [IPV4_DEVCONF_PROMOTE_SECONDARIES-1] = 1,
[IPV4_DEVCONF_ARP_ACCEPT-1] = 0, [IPV4_DEVCONF_ARP_NOTIFY-1] = 0, [IPV4_DEVCONF_ACCEPT_LOCAL-1] = 0, [IPV4_DEVCONF_ROMOTE_SECONDARIES-1] = 0,
[IPV4_DEVCONF_ROUTE_LOCALNET-1] = 0, [IPV4_DEVCONF_IGMPV2_UNSOLICITED_REPORT_INTERVAL-1] = 10000, [IPV4_DEVCONF_IGMPV3_UNSOLICITED_REPORT_INTERVAL-1] = 1000, [IPV4_DEVCONF_IGNORE_ROUTES_WITH_LINKDOWN-1] = 0, [IPV4_DEVCONF_DROP_UNICAST_IN_L2_MULTICAST-
1] = 0, [IPV4_DEVCONF_DROP_GRATUITOUS_ARP-1] = 0, [IPV4_DEVCONF_BC_FORWARDING-1] = 0]]],
IF_RS_SENT|IF_READY], [{nla_len=20, nla_type=IFLA_INET6_CACHEINFO}, {max_reasm_len=65535, tstamp=46, reachable_time=23120, retrans_time=1000}], [{nla_len=240, nla_type=IFLA_INET6_CONF}, [[DEVCONF_FORWARDING] = 0, [DEVCONF_HOPLIMIT] = 64, [DEVCONF_MTU6] = 1500, [DEVCONF_ACCEPT_R] = 1, [DEVCONF_ACCEPT_REDIRECTS] = 1, [DEVCONF_AUTOCONF] = 1, [DEVCONF_ACCEPT_REDIRECTS] = 1, [DEVCONF_ACCEPT_ACCEPT_REDIRECTS] = 1, [DEVCONF_ACCEPT_ACCEPT_ACCEPT_ACCEPT_ACCEPT_ACCEPT_ACCEPT_
 [DEVCONF_DAD_TRANSMITS] = 1, [DEVCONF_RTR_SOLICITS] = -1, [DEVCONF_RTR_SOLICIT_INTERVAL] =
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[DEVCONF_PROXY_NDP] = 0, [DEVCONF_OPTIMISTIC_DAD] = 0, [DEVCONF_ACCEPT_SOURCE_ROUTE] = 0, [DEVCONF_MC_FORWARDING] = 0, [DEVCONF_DISABLE_IPV6] = 0, [DEVCONF_ACCEPT_DAD] = 1, [DEVCONF_FORCE_TLLAO] = 0, [DEVCONF_NDISC_NOTIFY] = 0,
  [DEVCONF_MLDV1_UNSOLICITED_REPORT_INTERVAL] = 10000,
  [DEVCONF_MLDV2_UNSOLICITED_REPORT_INTERVAL] = 1000, ...]], [{nla_len=300,
nla_type=IFLA_INET6_STATS}, [[IPSTATS_MIB_NUM] = 37, [IPSTATS_MIB_INPKTS] = 187, [IPSTATS_MIB_INOCTETS] = 34220, [IPSTATS_MIB_INDELIVERS] = 0, [IPSTATS_MIB_OUTFORWDATAGRAMS] = 0, [IPSTATS_MIB_OUTPKTS] = 17, [IPSTATS_MIB_OUTOCTETS] = 1048, [IPSTATS_MIB_INHDRERRORS] = 0,
 [IPSTATS_MIB_INTOOBIGERRORS] = 0, [IPSTATS_MIB_INNOROUTES] = 0, [IPSTATS_MIB_INADDRERRORS] =
 [IPSTATS_MIB_INDISCARDS] = 0, [IPSTATS_MIB_OUTDISCARDS] = 0, [IPSTATS_MIB_OUTNOROUTES] = 0, [IPSTATS_MIB_REASMTIMEOUT] = 0, [IPSTATS_MIB_REASMREQDS] = 0, [IPSTATS_MIB_REASMOKS] = 0, [IPSTATS_MIB_REASMOKS] = 0, [IPSTATS_MIB_REASMOKS] = 0, [IPSTATS_MIB_FRAGCREATES] = 0, [IPSTATS_MIB_FRAGCREATES] = 187, [IPSTATS_MIB_OUTMCASTPKTS] = 187, [IPSTATS_M
 = 34220, [IPSTATS_MIB_OUTMCASTOCTETS] = 1048, [IPSTATS_MIB_INBCASTOCTETS] = 0,
[IPSTATS_MIB_OUTBCASTOCTETS] = 0, [IPSTATS_MIB_CSUMERRORS] = 0, ...]], [{nla_len=52, nla_type=IFLA_INET6_ICMP6STATS}, [[ICMP6_MIB_NUM] = 6, [ICMP6_MIB_INMSGS] = 0, [ICMP6_MIB_INERRORS] = 0, [ICMP6_MIB_OUTMSGS] = 17, [ICMP6_MIB_OUTERRORS] = 0,
 [ICMP6_MIB_CSUMERRORS] = 0]], [{nla_len=20, nla_type=IFLA_INET6_TOKEN}, inet_pton(AF_INET6,
"::")], [{nla_len=5, nla_type=IFLA_INET6_ADDR_GEN_MODE}, IN6_ADDR_GEN_MODE_EUI64]]]]], [{nla_len=41, nla_type=IFLA_PARENT_DEV_NAME}, "571f1de5-f156-473e-a73a-5527e15a"...], [{nla_len=10, nla_type=IFLA_PARENT_DEV_BUS_NAME}, "vmbus"]]]], iov_len=4096}], msg_iovlen=1, msg_controllen=0, msg_flags=0}, 0) = 2764
 nlmsg_flags=NLM_F_MULTI, nlmsg_seq=1735081197, nlmsg_pid=40611}, 0], iov_len=4096}],
 msg_iovlen=1, msg_controllen=0, msg_flags=0}, 0) = 20
 [pid 40611] sendto(9, [{nlmsg_len=20, nlmsg_type=RTM_GETADDR,
nlmsg_flags=NLM_F_REQUEST|NLM_F_DUMP, nlmsg_seq=1735081198, nlmsg_pid=0},
  [pid 40619] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libkeyutils.so.1", O_RDONLY|O_CLOEXEC
 <unfinished ...>
[pid 40611] <... sendto resumed>)
  [pid 40611] recvmsg(9, <unfinished ...>
 [pid 40611] <... 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=1735081198, nlmsg_pid=40611},
[{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=31,
 tstamp=31}]]], [{nlmsg_len=84, nlmsg_type=RTM_NEWADDR, nlmsg_flags=NLM_F_MULTI,
nlmsg_seq=1735081198, nlmsg_pid=40611}, {ifa_family=AF_INET, ifa_prefixlen=32, ifa_flags=IFA_F_PERMANENT, ifa_scope=RT_SCOPE_UNIVERSE, ifa_index=if_nametoindex("lo")}, [[{nla_len=8, nla_type=IFA_ADDRESS}, inet_addr("10.255.255.254")], [{nla_len=8, nla_type=IFA_BROADCAST}, inet_addr("10.255.255.254")], [{nla_len=8, nla_type=IFA_BROADCAST}, inet_addr("10.255.255.254")], [{nla_len=8, nla_type=IFA_BROADCAST}, inet_addr("10.255.255.254")], [{nla_len=8, nla_type=IFA_BROADCAST}, inet_addr("10.255.255.254")], [{nla_len=8, nla_type=IFA_BROADCAST}], inet_addr("10.255.255.254")], inet_addr("10.255.255.254")], inet_addr("10.255.255.254")], inet_addr("10.255.255.254")], inet_addr("10.255.255.254")], inet_addr("10.255.255.254")], inet_addr("10.255.255.254")], inet_addr("10.255.255.254")], inet_addr("10.255.255.254")], inet_addr("10.255.255.255")]
nlmsg_type=RTM_NEWADDR, nlmsg_flags=NLM_F_MULTI, nlmsg_seq=1735081198, nlmsg_pid=40611}, {ifa_family=AF_INET, ifa_prefixlen=20, ifa_flags=IFA_F_PERMANENT, ifa_scope=RT_SCOPE_UNIVERSE, ifa_index=if_nametoindex("eth0")}, [[{nla_len=8, nla_type=IFA_ADDRESS}, inet_addr("172.28.226.51")], [{nla_len=8, nla_type=IFA_LOCAL}, inet_addr("172.28.226.51")],
 [{nla_len=8, nla_type=IFA_BROADCAST}, inet_addr("172.28.239.255")], [{nla_len=9,
 248
 nlmsg_type=RTM_NEWADDR, nlmsg_flags=NLM_F_MULTI, nlmsg_seq=1735081198, nlmsg_pid=40611},
 {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,
```

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ifa valid=4294967295, cstamp=31, tstamp=31}], [{nla len=8, nla type=IFA FLAGS},
IFA_F_PERMANENT]]], [{nlmsg_len=72, nlmsg_type=RTM_NEWADDR, nlmsg_flags=NLM_F_MULTI,
nlmsg_seq=1735081198, nlmsg_pid=40611}, {ifa_family=AF_INET6, ifa_prefixlen=64,
ifa_flags=IFA_F_PERMANENT, ifa_scope=RT_SCOPE_LINK, ifa_index=if_nametoindex("eth0")},
[[{nla_len=20, nla_type=IFA_ADDRESS}, inet_pton(AF_INET6, "fe80::215:5dff:fe7f:bb89")],
[{nla_len=20, nla_type=IFA_CACHEINFO}, {ifa_prefered=4294967295, ifa_valid=4294967295,
[pid 40611] recvmsg(9, {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=1735081198, nlmsg_pid=40611}, 0], iov_len=4096}],
msg_iovlen=1, msg_controllen=0, msg_flags=0}, 0) = 20
 pid 40611] socket(AF_INET, SOCK_STREAM|SOCK_CLOEXEC, IPPROTO
pid 40611] setsockopt(9, SOL_SOCKET, SO_REUSEADDR, [1], 4) =
[pid 40611] bind(9, {sa_family=AF_INET, sin_port=htons(5556),
sin_addr=inet_addr("127.0.0.1")}, 16) = 0
[pid 40611] getsockname(9, {sa_family=AF_INET, sin_port=htons(5556),
sin_addr=inet_addr("127.0.0.1")}, [128 => 16]) = 0
[pid 40619] openat(AT FDCWD, "/lib/x86 64-linux-gnu/libresolv.so.2", O RDONLY|O CLOEXEC
[pid 40619] read(3, <unfinished ...>
[pid 40611] <... getpid resumed>)
[pid 40619] <... read</pre>
                                                   = 40611
[pid 40611] write(8, "\1\0\0\0\0\0\0\0", 8) = 8 [pid 40611] newfstatat(1, "", {st_mode=S_IFREG|0644, st_size=60681, ...}, AT_EMPTY_PATH) = 0
 <unfinished ...>
                                                   = 40611
[pid 40621] getpid( <unfinished ...>
                                                   = 40611
[pid 40611] poll([{fd=8, events=POLLIN}], 1, 0 <unfinished ...>
[pid 40621] <... getpid resumed>) = 40611
```

```
[pid 40619] mprotect(0x7fc3113fa000, 4096, PROT READ <unfinished ...>
[pid 40621] epoll_ctl(7, EPOLL_CTL_MOD, 9, {events=EPOLLIN, data={u32=805309296,
[pid 40621] getpid( <unfinished ...>
                                                                     = 40611
[pid 40619] mprotect(0x7fc311527000, 4096, PROT_READ) = 0
[pid 40619] mprotect(0x7fc31160e000, 4096, PROT_READ) = 0
[pid 40619] mprotect(0x7fc311660000, 8192, PROT_READ) = 0
[pid 40619] mprotect(0x7fc311a9d000, 4096, PROT_READ) = 0
[pid 40619] mprotect(0x7fc3116db000, 12288, PROT_READ) = 0
[pid 40619] mprotect(0x7fc3117da000, 4096, PROT_READ) = 0
[pid 40619] mprotect(0x7fc311836000, 4096, PROT_READ) = 0
[pid 40619] mprotect(0x7fc31184f000, 4096, PROT_READ) = 0
[pid 40619] mprotect(0x560c69243000, 4096, PROT_READ) = 0
[pid 40619] mprotect(0x7fc311de8000, 8192, PROT_READ) = 0
                                                                      = 40619
[pid 40619] read(3, "0-15\n", 1024) = 5
[pid 40619] openat(AT_FDCWD, "/sys/devices/system/cpu",
[pid 40619] newfstatat(3, "", {st_mode=S_IFDIR|0755, st_size=0, ...}, AT_EMPTY_PATH) = 0 [pid 40619] getdents64(3, 0x560c6e9012e0 /* 31 entries */, 32768) = 896
[pid 40619] openat(AT_FDCWD, "/etc/nsswitch.conf", O_RDONLY|O_CLOEXEC) = 3
[pid 40619] newfstatat(3, "", {st_mode=S_IFREG|0644, st_size=510, ...}, AT_EMPTY_PATH) = 0
[pid 40619] read(3, "# /etc/nsswitch.conf\n#\n# Example"..., 4096) = 510
[pid 40619] read(3, "", 4096) = 0
[pid 40619] newfstatat(3, "", {st_mode=S_IFREG|0644, st_size=510, ...}, AT_EMPTY_PATH) = 0
[pid 40619] openat(AT_FDCWD, "/etc/ld.so.cache", O_RDONLY|O_CLOEXEC) = 3
[pid 40619] newfstatat(3, "", {st_mode=S_IFREG|0644, st_size=22315, ...}, AT_EMPTY_PATH) = 0
[pid 40619] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/glibc-hwcaps/x86-64-v4/libnss_db.so.2",
O RDONLY O CLOEXEC) = -1 ENOENT (No such file or directory)
O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
[pid 40619] newfstatat(AT_FDCWD, "/lib/x86_64-linux-gnu/glibc-hwcaps/x86-64-v3",
[pid 40619] openat(AT FDCWD, "/lib/x86 64-linux-gnu/glibc-hwcaps/x86-64-v2/libnss db.so.2",
```

```
[pid 40619] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/tls/x86_64/x86_64/libnss_db.so.2",
= -1 ENOENT (No such file or directory)
[pid 40619] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/tls/x86_64/libnss_db.so.2",
-1 ENOENT (No such file or directory)
[pid 40619] newfstatat(AT_FDCWD, "/lib/x86_64-linux-gnu/tls", 0x7ffed3d2c240, 0) = -1 ENOENT
(No such file or directory)
[pid 40619] openat(AT FDCWD, "/lib/x86 64-linux-gnu/x86 64/x86 64/libnss db.so.2",
[pid 40619] newfstatat(AT_FDCWD, "/lib/x86_64-linux-gnu/x86_64/x86_64", 0x7ffed3d2c240, 0) = -1 ENOENT (No such file or directory)
[pid 40619] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/x86_64/libnss_db.so.2",
O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
[pid 40619] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/x86_64/libnss_db.so.2",
O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
[pid 40619] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libnss_db.so.2", O_RDONLY|O_CLOEXEC) = -1
[pid 40619] newfstatat(AT FDCWD, "/lib/x86 64-linux-gnu", {st mode=S IFDIR|0755,
[pid 40619] openat(AT_FDCWD, "/usr/lib/x86_64-linux-gnu/glibc-hwcaps/x86-64-
v4/libnss_db.so.2", O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
[pid 40619] newfstatat(AT_FDCWD, "/usr/lib/x86_64-linux-gnu/glibc-hwcaps/x86-64-v4", 0x7ffed3d2c240, 0) = -1 ENOENT (No such file or directory)
[pid 40619] openat(AT_FDCWD, "/usr/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)
[pid 40619] openat(AT_FDCWD, "/usr/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)
0x7ffed3d2c240, 0) = -1 ENOENT (No such file or directory)
[pid 40619] openat(AT_FDCWD, "/usr/lib/x86_64-linux-gnu/tls/x86_64/x86_64/libnss_db.so.2",
O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
[pid 40619] newfstatat(AT_FDCWD, "/usr/lib/x86_64-linux-gnu/tls/x86_64/x86_64",
[pid 40619] openat(AT_FDCWD, "/usr/lib/x86_64-linux-gnu/tls/x86_64/libnss_db.so.2",
ENOENT (No such file or \overline{\text{directory}})
= -1 ENOENT (No such file or directory)
[pid 40619] openat(AT_FDCWD, "/usr/lib/x86_64-linux-gnu/x86_64/libnss_db.so.2",
O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
ENOENT (No such file or directory)
[pid 40619] openat(AT_FDCWD, "/usr/lib/x86_64-linux-gnu/x86_64/libnss_db.so.2",
O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
[pid 40619] openat(AT_FDCWD, "/usr/lib/x86_64-linux-gnu/libnss_db.so.2", O_RDONLY|O_CLOEXEC) =
```

```
[pid 40619] openat(AT_FDCWD, "/lib/glibc-hwcaps/x86-64-v4/libnss_db.so.2", O_RDONLY|O_CLOEXEC)
= -1 ENOENT (No such file or directory)
[pid 40619] newfstatat (AT FDCWD, "/lib/glibc-hwcaps/x86-64-v3", 0x7ffed3d2c240, 0) = -1 ENOENT
[pid 40619] openat(AT FDCWD, "/lib/glibc-hwcaps/x86-64-v2/libnss db.so.2", O RDONLY|O CLOEXEC)
(No such file or directory)
[pid 40619] newfstatat(AT FDCWD, "/lib/tls/x86 64/x86 64", 0x7ffed3d2c240, 0) = -1 ENOENT (No
[pid 40619] openat(AT_FDCWD, "/lib/tls/x86_64/libnss_db.so.2", O_RDONLY|O_CLOEXEC) = -1 ENOENT
[pid 40619] openat(AT_FDCWD, "/lib/tls/x86_64/libnss_db.so.2", O_RDONLY|O_CLOEXEC) = -1 ENOENT
[pid 40619] openat(AT_FDCWD, "/lib/tls/libnss_db.so.2", O_RDONLY|O_CLOEXEC) = -1 ENOENT (No
[pid 40619] openat(AT FDCWD, "/lib/x86 64/x86 64/libnss db.so.2", O RDONLY|O CLOEXEC) = -1
[pid 40619] openat(AT_FDCWD, "/lib/x86_64/libnss_db.so.2", O_RDONLY|O_CLOEXEC) = -1 ENOENT (No
[pid 40619] openat(AT FDCWD, "/lib/x86 64/libnss db.so.2", O RDONLY|O CLOEXEC) = -1 ENOENT (No
[pid 40619] newfstatat(AT FDCWD, "/lib/x86 64", 0x7ffed3d2c240, 0) = -1 ENOENT (No such file
[pid 40619] openat(AT FDCWD, "/lib/libnss db.so.2", O RDONLY|O CLOEXEC) = -1 ENOENT (No such
[pid 40619] openat(AT_FDCWD, "/usr/lib/glibc-hwcaps/x86-64-v2/libnss_db.so.2",
O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
= -1 ENOENT (No such file or directory)
[pid 40619] openat(AT FDCWD, "/usr/lib/tls/x86 64/libnss db.so.2", O RDONLY|O CLOEXEC) = -1
[pid 40619] openat(AT_FDCWD, "/usr/lib/tls/libnss_db.so.2", O_RDONLY|O_CLOEXEC) = -1 ENOENT
(No such file or directory)
[pid 40619] openat(AT FDCWD, "/usr/lib/x86 64/x86 64/libnss db.so.2", O RDONLY|O CLOEXEC) = -1
```

```
[pid 40619] openat(AT_FDCWD, "/usr/lib/x86_64/libnss_db.so.2", O_RDONLY|O_CLOEXEC) = -1 ENOENT
(No such file or directory)
[pid 40619] openat(AT_FDCWD, "/usr/lib/x86_64/libnss_db.so.2", O_RDONLY|O_CLOEXEC) = -1 ENOENT
[pid 40619] openat(AT FDCWD, "/usr/lib/libnss db.so.2", O RDONLY|O CLOEXEC) = -1 ENOENT (No
[pid 40619] openat(AT_FDCWD, "/etc/ld.so.cache", O_RDONLY|O_CLOEXEC) = 3
[pid 40619] newfstatat(3, "", {st_mode=S_IFREG|0644, st_size=22315, ...}, AT_EMPTY_PATH) = 0
[pid 40619] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libnss_db-2.35.so", O_RDONLY|O_CLOEXEC) =
-1 ENOENT (No such file or directory)
[pid 40619] openat(AT_FDCWD, "/lib/libnss_db-2.35.so", O_RDONLY|O_CLOEXEC) = -1 ENOENT (No
such file or directory
[pid 40619] openat(AT_FDCWD, "/usr/lib/libnss_db-2.35.so", O_RDONLY|O_CLOEXEC) = -1 ENOENT (No
[pid 40619] openat(AT_FDCWD, "/etc/protocols", O_RDONLY|O_CLOEXEC) = 3
[pid 40619] newfstatat(3, "", {st_mode=S_IFREG|0644, st_size=2932, ...}, AT_EMPTY_PATH) = 0
[pid 40619] read(3, "# Internet (IP) protocols\n#\n# Up"..., 4096) = 2932
[pid 40619] read(3, "", 4096) = 0
[pid 40619] fcntl(3, F_GETFL) = 0x2 (flags [pid 40619] fcntl(3, F_SETFL, O_RDWR|O_NONBLOCK) = 0 [pid 40619] fcntl(3, F_GETFL) = 0x802 (flags from the control of the contro
                                                                                                                     = 0x802 (flags O_RDWR|O_NONBLOCK)
[pid 40619] fcntl(4, F_GETFL) = 0x2 (flags [pid 40619] fcntl(4, F_SETFL, O_RDWR|O_NONBLOCK) = 0
[pid 40619] fcntl(4, F_GETFL)
[pid 40619] epoll_create1(EPOLL_CLOEXEC)
[pid 40619] epoll_ctl(5, EPOLL_CTL_ADD,
u64=94611394532960}}) = 0
[pid 40619] rt_sigprocmask(SIG_UNBLOCK, [RTMIN RT_1], NULL, 8) = 0
[pid 40619] rt_sigprocmask(SIG_BLOCK, ~[], [QUIT], 8) = 0
[pid 40619]
[pid 40622] set_robust_list(0x7fc3113e2920, 24 <unfinished ...>
[pid 40619] <... rt_sigprocmask resumed>NULL, 8) = 0
[pid 40622] <... set_robust_list resumed>) = 0
 [pid 40622] rt_sigprocmask(SIG_BLOCK, ~[RTMIN RT_1],
```

```
[pid 40622] <... sched_getparam resumed>[0]) = 0
[pid 40619] <... fcntl resumed>) = 0x2 (f
[pid 40622] <... sched setscheduler resumed>) = 0
                                          = 0x802 (flags O RDWR|O NONBLOCK)
u64 = 94611394553440\}) = 0
[pid 40619] epoll_ctl(7, EPOLL_CTL_MOD, 6, u64=94611394553440}}) = 0
[pid 40619] mprotect(0x7fc3103e2000, 8388608, PROT_READ|PROT_WRITE) = 0
[pid 40619] rt_sigprocmask(SIG_BLOCK, ~[], [QUIT], 8) = 0
parent_tid=0x7fc310be1910, exit_signal=0, stack=0x7fc3103e1000, stack_size=0x7ffc80,
tls=0x7fc310be1640}strace: Process 40623 attached
[pid 40619] <... rt_sigprocmask resumed>NULL, 8) = 0
[pid 40623] rt_sigprocmask(SIG_SETMASK, [QUIT], <unfinished ...>
[pid 40623] <... rt_sigprocmask resumed>NULL, 8) = 0
[pid 40623] rt_sigprocmask(SIG_BLOCK, ~[RTMIN RT_1],
[pid 40623] sched_getparam(40623, <unfinished ...>
[pid 40623] <... sched_getparam resumed>[0]) = 0
                                         = 0x802 (flags O RDWR|O NONBLOCK)
[pid 40623] <... sched_getscheduler resumed>) = 0 (SCHED_OTHER)
u64=94611394553440}], 256, -1) = 1
```

```
[pid 40623] <... getpid resumed>)
[pid 40623] poll([{fd=6, events=POLLIN}], 1, 0 <unfinished ...>
[pid 40619] write(8, "\1\0\0\0\0\0\0", 8 <unfinished ...>
                                                          = 40619
[pid 40623] read(6, <unfinished ...>
                                                          = 1 ([{fd=8, revents=POLLIN}])
[pid 40623] mprotect(0x7fc30c000000, 135168, PROT_READ|PROT_WRITE <unfinished ...>
[pid 40619] clock_nanosleep(CLOCK_REALTIME, 0, {tv_sec=0, tv_nsec=100000000}, <unfinished
\sin \text{ addr} = \text{inet addr} ("127.0.\overline{0}.1") \}, 16) = -1 \text{ EINPROGRESS} (Operation now in progress)
u64=140609444645744}}], 256, -1) = 1
[pid 40623] epoll_ctl(7, EPOLL_CTL_ADD, 9, {events=0, data={u32=201331760,
[pid 40621] <... accept4 resumed>{sa_family=AF_INET, sin_port=htons(38608),
sin_addr=inet_addr("127.0.0.1")}, [128 => 16], SOCK_CLOEXEC) = 10
[pid 40623] <... epoll_ctl resumed>)
[pid 40621] <... setsockopt resumed>)
[pid 40621] <... getpeername resumed>{sa_family=AF_INET, sin_port=htons(38608),
sin_addr=inet_addr("127.0.0.1")}, [128 => 16]) = 0
[pid 40623] epoll_wait(7, <unfinished ...>
[pid 40623] getsockopt(9, SOL_SOCKET, SO_ERROR, <unfinished ...>
[pid 40623] getsockname(9, <unfinished ...>
[pid 40621] fcntl(10, F_SETFL, O_RDWR|O_NONBLOCK <unfinished ...>
[pid 40621] getpid( <unfinished ...>
[pid 40623] <... getpeername resumed>{sa_family=AF_INET, sin_port=htons(5556),
[pid 40623] fcntl(9, F_GETFL <unfinished ...>
[pid 40621] write(6, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>
                                                          = 0x802 (flags O RDWR|O NONBLOCK)
```

```
= 40619
[pid 40621] getpid( <unfinished ...>
[pid 40623] write(6, "\1\0\0\0\0\0\0", 8 <unfinished ...>
                                                = 40611
[pid 40623] <... write resumed>)
                                                 = 1 ([{fd=6, revents=POLLIN}])
[pid 40621] getpid( <unfinished ...>
                                                 = 40611
                                                 = 40619
u64=140475696682032}} <unfinished ...>
[pid 40621] recvfrom(10, <unfinished ...>
[pid 40623] epoll_ctl(7, EPOLL_CTL_MOD, 9, {events=EPOLLIN, data={u32=201331760,
[pid 40621] <... recvfrom resumed>0x7fe2300012f8, 12, 0, NULL, NULL) = -1 EAGAIN (Resource
temporarily unavailable)
[pid 40623] epoll_ctl(7, EPOLL_CTL_MOD, 9, {events=EPOLLIN|EPOLLOUT, data={u32=201331760,
[pid 40623] recvfrom(9, <unfinished ...>
[pid 40621] poll([{fd=6, events=POLLIN}], 1, 0 <unfinished ...>
temporarily unavailable)
[pid 40623] getpid( <unfinished ...>
[pid 40623] <... poll resumed>)
[pid 40621] <... sendto resumed>)
[pid 40623] epoll_wait(7, <unfinished ...>
[pid 40621] epoll_ctl(7, EPOLL_CTL_MOD, 10, {events=EPOLLIN, data={u32=805309392,
u64=140609444645840}} <unfinished ...>
[pid 40621] epoll_wait(7, <unfinished ...>
u64=140609444645840}], 256, 29998) = 1
```

```
[pid 40621] recvfrom(10, <unfinished ...>
[pid 40623] <... epoll_ctl resumed>) =
[pid 40621] epoll_ctl(7, EPOLL_CTL_MOD, 10, {events=EPOLLIN|EPOLLOUT, data={u32=805309392,
[pid 40621] <... epoll_ctl resumed>) = 0
u64=140475696682032}} <unfinished ...>
[pid 40623] <... epoll_ctl resumed>) = 0 [pid 40621] <... recvfrom resumed>0x7fe230001302, 2, 0, NULL, NULL) = -1 EAGAIN (Resource
[pid 40623] recvfrom(9, <unfinished ...>
temporarily unavailable)
u64=140609444645840}} <unfinished ...>
[pid 40621] epoll_wait(7, <unfinished ...>
[pid 40623] <... epoll_ctl resumed>) = 0
[pid 40621] <... epoll_wait resumed>[{events=EPOLLIN, data={u32=805309392,
u64=140475696682032}], 256, 29998) = 1
u64=140609444645840}} <unfinished ...>
[pid 40623] <... recvfrom resumed>"\3", 2, 0, NULL, NULL) = 1
[pid 40623] <... epoll_ctl resumed>) = 0
[pid 40621] <... recvfrom resumed>0x7fe230001303, 53, 0, NULL, NULL) = -1 EAGAIN (Resource
temporarily unavailable)
[pid 40621] <... sendto resumed>) [pid 40623] <... sendto resumed>)
u64=140609444645840}} <unfinished ...>
```

```
[pid 40621] epoll wait(7, <unfinished ...>
u64=140475696682032}} <unfinished ...>
[pid 40623] < ... recvfrom resumed>0x7fc30c003d18, 8192, 0, NULL, NULL) = -1 EAGAIN (Resource
temporarily unavailable)
[pid 40623] sendto(9, "\4)\5READY\vSocket-Type\0\0\6DEALER\10I"..., 43, 0, NULL, 0
                                        = 43
                                        = 43
u64=140475696682032}], 256, 29996) = 1
[pid 40621] epoll ctl(7, EPOLL CTL MOD, 10, {events=EPOLLIN, data={u32=805309392,
[pid 40623] recvfrom(9, "\4) SREADY\vSocket-Type\0\0\0\6DEALER\10I"..., 8192, 0, NULL, NULL) =
43
[pid 40621] recvfrom(10, "\4)\5READY\vSocket-Type\0\0\0\6DEALER\10I"..., 8192, 0, NULL, NULL)
= 43
[pid 40623] epoll ctl(7, EPOLL CTL MOD, 9, {events=EPOLLIN, data={u32=201331760,
                                        = 40611
[pid 40621] epoll_ctl(7, EPOLL_CTL_MOD, 10, {events=EPOLLIN|EPOLLOUT, data={u32=805309392,
```

```
[pid 40619] getpid()
[pid 40619] clock_nanosleep(CLOCK_REALTIME, 0, {tv_sec=0, tv_nsec=100000000}, <unfinished</pre>
                                             = 40611
                                             = 40619
[pid 40619] poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)
[pid 40619] clock_nanosleep(CLOCK_REALTIME, 0, {tv_sec=0, tv_nsec=100000000}, NULL) = 0
[pid 40619] getpid()
                                             = 40619
[pid 40619] clock nanosleep(CLOCK REALTIME, 0, {tv sec=0, tv nsec=100000000}, NULL) = 0
[pid 40619] getpid()
                                             = 40619
[pid 40619] getpid()
                                             = 40619
[pid 40619] clock nanosleep(CLOCK REALTIME, 0, {tv sec=0, tv nsec=100000000}, NULL) = 0
[pid 40619] clock nanosleep(CLOCK REALTIME, 0, {tv sec=0, tv nsec=100000000}, <unfinished
                                             = 40611
                                             = 40611
```

```
[pid 40611] getpid( <unfinished ...>
[pid 40621] getpid( <unfinished ...>
                                                         = 40611
                                                         = 40611
[pid 40611] <... poll resumed>)
[pid 40621] <... poll resumed>)
[pid 40621] <... getpid resumed>) = 40611
[pid 40611] clock_nanosleep(CLOCK_REALTIME, 0, {tv_sec=1, tv_nsec=0}, <unfinished ...>
[pid 40621] <... sendto resumed>)
[pid 40621] getpid( <unfinished ...>
[pid 40623] <... recvfrom</pre>
                                                         = 40611
[pid 40621] poll([{fd=6, events=POLLIN}], 1, 0 <unfinished ...>
[pid 40623] <... getpid resumed>) = 40619
[pid 40623] <... write resumed>) = 8
[pid 40621] <... epoll_wait resumed>[{events=EPOLLOUT, data={u32=805309392,
u64=140609444645840}) = 0
                                                          = 40619
[pid 40637] execve("./computing", ["computing", "2"], 0x7ffed3d2f450 /* 32 vars */ <unfinished
[pid 40637] <... execve resumed>)
[pid 40619] <... fcntl resumed>)
                                                         = 0x802 (flags O_RDWR|O_NONBLOCK)
```

```
[pid 40619] <... getpid resumed>)
[pid 40637] openat(AT_FDCWD, "/etc/ld.so.cache", O_RDONLY|O_CLOEXEC <unfinished ...>
[pid 40637] <... openat resumed>)
                                               = 0x802 (flags O_RDWR|O_NONBLOCK)
[pid 40637] openat(AT FDCWD, "/lib/x86 64-linux-gnu/libzmq.so.5", O RDONLY|O CLOEXEC
[pid 40637] <... openat resumed>)
[pid 40619] <... fcntl resumed>)
[pid 40619] getpid( <unfinished ...> [pid 40637] <... read
                                              = 40619
[pid 40619] epoll_create1(EPOLL_CLOEXEC <unfinished ...>
[pid 40637] <... newfstatat resumed>{st_mode=S_IFREG|0644, st_size=634936, ...},
u64=94611394594512}) = 0
[pid 40619] epoll_ctl(12, EPOLL_CTL_MOD, 11, {events=EPOLLIN, data={u32=1854998224, u64=94611394594512}}) = 0
[pid 40619] rt_sigprocmask(SIG_BLOCK, ~[], <unfinished ...>
TLS|CLONE_PARENT_SETTID|CLONE_CHILD_CLEARTID, child_tid=0x7fc30bfff910,
tls=0x7fc30bfff640} <unfinished ...>
{st_mode=S_IFREG|0644, st_size=2522584, ...}, AT_EMPTY_PATH) = 0 [pid 40638] rseq(0x7fc30bffffe0, 0x20, 0, 0x53053053) = 0
[pid 40638] rt_sigprocmask(SIG_SETMASK, [QUIT], <unfinished ...>
[pid 40619] <... rt_sigprocmask resumed>NULL, 8) = 0
[pid 40638] <... rt_sigprocmask resumed>NULL, 8) = 0
[pid 40638] rt_sigprocmask(\overline{SIG}BLOCK, ~[RTMIN RT_1], NULL, 8) = 0
                                               = 0x802 (flags O RDWR|O NONBLOCK)
[pid 40637] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libgcc_s.so.1", O_RDONLY|O_CLOEXEC
```

```
[pid 40619] <... getpid resumed>)
[pid 40637] read(3, <unfinished ...>
                                                        = 40619
[pid 40619] <... epoll_ctl resumed>) = 0
[pid 40619] epoll_ctl(14, EPOLL_CTL_MOD, 13, {events=EPOLLIN, data={u32=1855014944, u64=94611394611232}}) = 0
[pid 40619] rt_sigprocmask(SIG_BLOCK, ~[], <unfinished ...>
[pid 40637] openat(AT FDCWD, "/lib/x86 64-linux-gnu/libc.so.6", O RDONLY|O CLOEXEC <unfinished
[pid 40619] <... rt_sigprocmask resumed>[QUIT], 8) = 0
[pid 40637] <... openat resumed>)
[pid 40619]
clone3({flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SET
TLS|CLONE_PARENT_SETTID|CLONE_CHILD_CLEARTID, child_tid=0x7fc30b7fe910,
parent_tid=0x7fc30b7fe910, exit_signal=0, stack=0x7fc30affe000, stack_size=0x7ffc80,
[pid 40637] pread64(3, <unfinished ...>
[pid 40639] <... rseq resumed>)
[pid 40619] rt_sigprocmask(SIG_SETMASK, [QUIT], <unfinished ...>
[pid 40639] rt_sigprocmask(SIG_SETMASK, [QUIT], <unfinished ...>
[pid 40639] <... rt_sigprocmask resumed>NULL, 8) = 0
[pid 40619] <... rt_sigprocmask resumed>NULL, 8) = 0
[pid 40639] rt_sigprocmask(SIG_BLOCK, ~[RTMIN RT_1],
[pid 40639] <... sched_getparam resumed>[0]) = 0
[pid 40637] <... pread64
                                               = 0x2  (flags O RDWR)
[pid 40637] pread64(3, <unfinished ...>
[pid 40619] <... fcntl resumed>)
[pid 40637] <... pread64
                                                       = 0x802 (flags O RDWR|O NONBLOCK)
```

```
[pid 40619] socket(AF_NETLINK, SOCK_RAW|SOCK_CLOEXEC, NETLINK_ROUTE) = 16
[pid 40637] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libbsd.so.0", O_RDONLY|O_CLOEXEC
 [pid 40637] <... openat resumed>)
[pid 40619] <... bind resumed>)
 [pid 40637] read(3, <unfinished ...>
 [pid 40637] newfstatat(3, "", <unfinished ...>
 [pid 40619] sendto(16, [{nlmsg_len=20, nlmsg_type=RTM_GETLINK,
 [pid 40619] recvmsg(16, <unfinished ...>
nlmsg_type=RTM_NEWLINK, nlmsg_flags=NLM_F_MULTI, nlmsg_seq=1735081199, nlmsg_pid=40619},
{ifi_family=AF_UNSPEC, ifi_type=ARPHRD_LOOPBACK, ifi_index=if_nametoindex("lo"), ifi_flags=IFF_UP|IFF_LOOPBACK|IFF_RUNNING|IFF_LOWER_UP, ifi_change=0}, [[{nla_len=7, nla_type=IFLA_IFNAME}, "lo"], [{nla_len=8, nla_type=IFLA_TXQLEN}, 1000], [{nla_len=5, nla_type=IFLA_OPERSTATE}, 0], [{nla_len=5, nla_type=IFLA_UNKMODE}, 0], [{nla_len=8, nla_type=IFLA_UNKMODE}], [{nla_len=8, nla_type=IF
nla_type=IFLA_MTU}, 65536], [{nla_len=8, nla_type=IFLA_MIN_MTU}, 0], [{nla_len=8,
nla_type=IFLA_MAX_MTU}, 0], [{nla_len=8, nla_type=IFLA_GROUP}, 0], [{nla_len=8, nla_type=IFLA_PROMISCUITY}, 0], [{nla_len=8, nla_type=IFLA_NUM_TX_QUEUES}, 1], [{nla_len=8, nla_type=IFLA_GSO_MAX_SIZE}, 65536], [{nla_type=IFLA_GSO_MAX_SIZE}, 65536], [{nla_type=IFLA_NUM_EX_PROMISCUITY}, 1], [{nla_len=8, nla_type=IFLA_CARRIER}, 1], [{nla_len=8, nla_type=IFLA_CARRIER}
 [{nla_len=12, nla_type=IFLA_QDISC}, "noqueue"], [{nla_len=8, nla_type=IFLA_CARRIER_CHANGES},
nla_type=IFLA_CARRIER_DOWN_COUNT}, 0], [{nla_len=5, nla_type=IFLA_PROTO_DOWN}, 0],
[{nla_len=36, nla_type=IFLA_MAP}, {mem_start=0, mem_end=0, base_addr=0, irq=0, dma=0,
port=0}], [{nla_len=10, nla_type=IFLA_ADDRESS}, 00:00:00:00:00:00], [{nla_len=10,
{rx_packets=932547, tx_packets=932547, rx_bytes=1278422838, tx_bytes=1278422838, rx_errors=0,
tx_errors=0, rx_dropped=0, tx_dropped=0, multicast=0, collisions=0, rx_length_errors=0,
rx_over_errors=0, rx_crc_errors=0, rx_frame_errors=0, rx_fifo_errors=0, rx_missed_errors=0,
tx_aborted_errors=0, tx_carrier_errors=0, tx_fifo_errors=0, tx_heartbeat_errors=0,
collisions=0, rx_length_errors=0, rx_over_errors=0, rx_crc_errors=0, rx_frame_errors=0, rx_fifo_errors=0, rx_missed_errors=0, tx_aborted_errors=0, tx_carrier_errors=0,
tx_fifo_errors=0, tx_heartbeat_errors=0, tx_window_errors=0, rx_compressed=0, tx_compressed=0,
rx_nohandler=0)], [{nla_len=12, nla_type=IFLA_XDP}, [{nla_len=5, nla_type=IFLA_XDP_ATTACHED},
 [IPV4_DEVCONF_MC_FORWARDING-1] = 0, [IPV4_DEVCONF_PROXY_ARP-1] = 0, [IPV4_DEVCONF_ACCEPT_REDIRECTS-1] = 1, [IPV4_DEVCONF_SECURE_REDIRECTS-1] = 1,
 [IPV4_DEVCONF_SEND_REDIRECTS-1] = 1, [IPV4_DEVCONF_SHARED_MEDIA-1] = 1,
 [IPV4_DEVCONF_RP_FILTER-1] = 2, [IPV4_DEVCONF_ACCEPT_SOURCE_ROUTE-1] = 0,
 [IPV4_DEVCONF_BOOTP_RELAY-1] = 0, [IPV4_DEVCONF_LOG_MARTIANS-1] = 0, [IPV4_DEVCONF_TAG-1] = 0,
 [IPV4_DEVCONF_ARPFILTER-1] = 0, [IPV4_DEVCONF_MEDIUM_ID-1] = 0, [IPV4_DEVCONF_NOXFRM-1] = 1, [IPV4_DEVCONF_NOPOLICY-1] = 1, [IPV4_DEVCONF_FORCE_IGMP_VERSION-1] = 0, [IPV4_DEVCONF_ARP_ANNOUNCE-1] = 0, [IPV4_DEVCONF_ARP_IGNORE-1] = 0,
 [IPV4_DEVCONF_IGMPV2_UNSOLICITED_REPORT_INTERVAL-1] = 10000,
[IPV4_DEVCONF_IGMPV3_UNSOLICITED_REPORT_INTERVAL-1] = 1000,
 [IPV4_DEVCONF_IGNORE_ROUTES_WITH_LINKDOWN-1] = 0, [IPV4_DEVCONF_DROP_UNICAST_IN_L2_MULTICAST-
reachable_time=31120, retrans_time=1000}], [{nla_len=240, nla_type=IFLA_INET6_CONF},
```

```
[DEVCONF_ACCEPT_RA] = 1, [DEVCONF_ACCEPT_REDIRECTS] = 1, [DEVCONF_AUTOCONF] = 1, [DEVCONF_DAD_TRANSMITS] = 1, [DEVCONF_RTR_SOLICITS] = -1, [DEVCONF_RTR_SOLICIT_INTERVAL] = 4000, [DEVCONF_RTR_SOLICIT_DELAY] = 1000, [DEVCONF_USE_TEMPADDR] = -1, [DEVCONF_TEMP_VALID_LFT] = 604800, [DEVCONF_TEMP_PREFERED_LFT] = 864800, [DEVCONF_TEMP_PREFER
[DEVCONF_REGEN_MAX_RETRY] = 3, [DEVCONF_MAX_DESYNC_FACTOR] = 600, [DEVCONF_MAX_ADDRESSES] = 16, [DEVCONF_FORCE_MLD_VERSION] = 0, [DEVCONF_ACCEPT_RA_DEFRTR] = 1, [DEVCONF_ACCEPT_RA_PINFO]
= 1, [DEVCONF_ACCEPT_RA_RTR_PREF] = 0, [DEVCONF_RTR_PROBE_INTERVAL] = 0, [DEVCONF_ACCEPT_RA_RT_INFO_MAX_PLEN] = 0, [DEVCONF_PROXY_NDP] = 0, [DEVCONF_OPTIMISTIC_DAD] = 0, [DEVCONF_ACCEPT_SOURCE_ROUTE] = 0, [DEVCONF_MC_FORWARDING] = 0, [DEVCONF_DISABLE_IPV6] = 0, [DEVCONF_DISABLE_IPV
nla_type=IFLA_INET6_STATS}, [[IPSTATS_MIB_NUM] = 37, [IPSTATS_MIB_INPKTS] = 0, [IPSTATS_MIB_INOCTETS] = 0, [IPSTATS_MIB_INDELIVERS] = 0, [IPSTATS_MIB_OUTFORWDATAGRAMS] = 0, [IPSTATS_MIB_OUTPKTS] = 0, [IPSTATS_MIB_OUTPKTS] = 0, [IPSTATS_MIB_INDELIVERS] = 0, [IPSTATS_MIB_INDERRORS] = 0,
[IPSTATS_MIB_INTOOBIGERRORS] = 0, [IPSTATS_MIB_INNOROUTES] = 0, [IPSTATS_MIB_INADDRERRORS] = 0, [IPSTATS_MIB_INUNKNOWNPROTOS] = 0, [IPSTATS_MIB_INTRUNCATEDPKTS] = 0,
[IPSTATS_MIB_INDISCARDS] = 0, [IPSTATS_MIB_OUTDISCARDS] = 0, [IPSTATS_MIB_OUTNOROUTES] = 0, [IPSTATS_MIB_REASMTIMEOUT] = 0, [IPSTATS_MIB_REASMREQDS] = 0, [IPSTATS_MIB_REASMOKS] = 0, [IPSTATS_MIB_REASMOKS] = 0, [IPSTATS_MIB_FRAGFAILS] = 0, [IPSTATS_
[IPSTATS_MIB_OUTBCASTOCTETS] = 0, [IPSTATS_MIB_CSUMERRORS] = 0, ...]], [{nla_len=52, nla_type=IFLA_INET6_ICMP6STATS}, [[ICMP6_MIB_NUM] = 6, [ICMP6_MIB_INMSGS] = 0, [ICMP6_MIB_INERRORS] = 0, [ICMP6_MIB_OUTMSGS] = 0, [ICMP6_MIB_OUTERRORS] = 0,
  [ICMP6_MIB_CSUMERRORS] = 0]], [{nla_len=20, nla_type=IFLA_INET6_TOKEN}, inet_pton(AF_INET6,
 "::")], [{nla_len=5, nla_type=IFLA_INET6_ADDR_GEN_MODE}, IN6_ADDR_GEN_MODE_EUI64]]]]]]],
[{nlmsg_len=1416, nlmsg_type=RTM_NEWLINK, nlmsg_flags=NLM_F_MULTI, nlmsg_seq=1735081199, nlmsg_pid=40619}, {ifi_family=AF_UNSPEC, ifi_type=ARPHRD_ETHER,
  [{nla_len=5, nla_type=IFLA_OPERSTATE}, 6], [{nla_len=5, nla_type=IFLA_LINKMODE}, 0],
[{nla_len=8, nla_type=IFLA_MTU}, 1500], [{nla_len=8, nla_type=IFLA_MIN_MTU}, 68], [{nla_len=8, nla_type=IFLA_MAX_MTU}, 65521], [{nla_len=8, nla_type=IFLA_GROUP}, 0], [{nla_len=8, nla_type=IFLA_PROMISCUITY}, 0], [{nla_len=8, nla_type=IFLA_NUM_TX_QUEUES}, 64], [{nla_len=8, nla_type=IFLA_GSO_MAX_SIZE}, 65535], [{nla_len=8, nla_type=IFLA_GSO_MAX_SIZE}, 6780], [{nla_len=8, nla_type=IFLA_GSO_MAX_SIZE}], [{nla_len=8
[{nla_len=8, nla_type=IFLA_NUM_RX_QUEUES}, 64], [{nla_len=5, nla_type=IFLA_CARRIER}, 1], [{nla_len=7, nla_type=IFLA_QDISC}, "mq"], [{nla_len=8, nla_type=IFLA_CARRIER_CHANGES}, 1], [{nla_len=8, nla_type=IFLA_CARRIER_UP_COUNT}, 1], [{nla_len=8, nla_type=IFLA_CARRIER_UP_COUNT}, 0], [{nla_len=5, nla_type=IFLA_PROTO_DOWN}, 0], [{nla_len=36, nla_type=IFLA_PROTO_DOWN}, 0], [{nla_len=36
[{nla_len=36, nla_type=IFLA_MAP}, {mem_start=0, mem_end=0, base_addr=0, irq=0, dma=0,
port=0}], [{nla_len=10, nla_type=IFLA_ADDRESS}, 00:15:5d:7f:bb:89], [{nla_len=10,
nla_type=IFLA_BROADCAST}, ff:ff:ff:ff:ff:ff], [{nla_len=196, nla_type=IFLA_STATS64},
{rx_packets=43636, tx_packets=43367, rx_bytes=22346850, tx_bytes=13805842, rx_errors=0,
tx_errors=0, rx_dropped=0, tx_dropped=0, multicast=386, collisions=0, rx_length_errors=0,
tx_bytes=13805842, rx_errors=0, tx_errors=0, rx_dropped=0, tx_dropped=0, multicast=386,
 tx_fifo_errors=0, tx_heartbeat_errors=0, tx_window_errors=0, rx_compressed=0, tx_compressed=0,
XDP_ATTACHED_NONE]], [{nla_len=10, nla_type=IFLA_PERM_ADDRESS}, 00:15:5d:7f:bb:89],
[{nla_len=792, nla_type=IFLA_AF_SPEC}, [[{nla_len=136, nla_type=AF_INET}, [{nla_len=132,
nla_type=IFLA_INET_CONF}, [[IPV4_DEVCONF_FORWARDING-1] = 0, [IPV4_DEVCONF_MC_FORWARDING-1] =
0, [IPV4_DEVCONF_PROXY_ARP-1] = 0, [IPV4_DEVCONF_ACCEPT_REDIRECTS-1] = 1,
[IPV4_DEVCONF_SHARED_MEDIA-1] = 1, [IPV4_DEVCONF_RP_FILTER-1] = 2,

[IPV4_DEVCONF_ACCEPT_SOURCE_ROUTE-1] = 0, [IPV4_DEVCONF_BOOTP_RELAY-1] = 0,

[IPV4_DEVCONF_LOG_MARTIANS-1] = 0, [IPV4_DEVCONF_TAG-1] = 0, [IPV4_DEVCONF_ARPFILTER-1] = 0,

[IPV4_DEVCONF_MEDIUM_ID-1] = 0, [IPV4_DEVCONF_NOXFRM-1] = 0, [IPV4_DEVCONF_NOPOLICY-1] = 0,
[IPV4_DEVCONF_ARP_IGNORE-1] = 0, [IPV4_DEVCONF_PROMOTE_SECONDARIES-1] = 1, [IPV4_DEVCONF_ARP_ACCEPT-1] = 0, [IPV4_DEVCONF_ARP_NOTIFY-1] = 0, [IPV4_DEVCONF_ACCEPT_LOCAL-1] = 0, [IPV4_DEVCONF_SRC_VMARK-1] = 0, [IPV4_DEVCONF_PROXY_ARP_PVLAN-1] = 0,
[IPV4_DEVCONF_IGNORE_ROUTES_WITH_LINKDOWN-1] = 0, [IPV4_DEVCONF_DROP_UNICAST_IN_L2_MULTICAST-1] = 0, [IPV4_DEVCONF_DROP_UNICAST_IN_L2_MULTICAST-1] = 0, [IPV4_DEVCONF_BC_FORWARDING-1] = 0]]], [{nla_len=652, nla_type=AF_INET6}, [[{nla_len=8, nla_type=IFLA_INET6_FLAGS},
```

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IF_RS_SENT|IF_READY], [{nla_len=20, nla_type=IFLA_INET6_CACHEINFO}, {max_reasm_len=65535,
tstamp=46, reachable_time=23120, retrans_time=1000}], [{nla_len=240, nla_type=IFLA_INET6_CONF}, [[DEVCONF_FORWARDING] = 0, [DEVCONF_HOPLIMIT] = 64, [DEVCONF_MTU6] = 1500, [DEVCONF_ACCEPT_RA] = 1, [DEVCONF_ACCEPT_REDIRECTS] = 1, [DEVCONF_AUTOCONF] = 1, [DEVCONF_DAD_TRANSMITS] = 1, [DEVCONF_RTR_SOLICITS] = -1, [DEVCONF_RTR_SOLICIT_INTERVAL] = 4000, [DEVCONF_RTR_SOLICIT_DELAY] = 1000, [DEVCONF_RTR_SOLICIT_DELAY] = 1000, [DEVCONF_USE_TEMPADDR] = 0, [DEVCONF_TEMP_VALID_LFT]
[DEVCONF_MAX_DESYNC_FACTOR] = 600, [DEVCONF_MAX_ADDRESSES] = 16, [DEVCONF_FORCE_MLD_VERSION] = 0, [DEVCONF_ACCEPT_RA_DEFRTR] = 1, [DEVCONF_ACCEPT_RA_PINFO] = 1, [DEVCONF_ACCEPT_RA_RTR_PREF] = 0, [DEVCONF_RTR_PROBE_INTERVAL] = 0, [DEVCONF_ACCEPT_RA_RT_INFO_MAX_PLEN] = 0,
[DEVCONF_PROXY_NDP] = 0, [DEVCONF_OPTIMISTIC_DAD] = 0, [DEVCONF_ACCEPT_SOURCE_ROUTE] = 0,
[DEVCONF_MLDV1_UNSOLICITED_REPORT_INTERVAL] = 10000,

[DEVCONF_MLDV2_UNSOLICITED_REPORT_INTERVAL] = 1000, ...]], [{nla_len=300,

nla_type=IFLA_INET6_STATS}, [[IPSTATS_MIB_NUM] = 37, [IPSTATS_MIB_INPKTS] = 187,
[IPSTATS_MIB_INTOOBIGERRORS] = 0, [IPSTATS_MIB_INNOROUTES] = 0, [IPSTATS_MIB_INADDRERRORS] = 0, [IPSTATS_MIB_INUNKNOWNPROTOS] = 0, [IPSTATS_MIB_INTRUNCATEDPKTS] = 0,
[IPSTATS_MIB_INDISCARDS] = 0, [IPSTATS_MIB_OUTDISCARDS] = 0, [IPSTATS_MIB_OUTNOROUTES] = 0,
[IPSTATS_MIB_REASMTIMEOUT] = 0, [IPSTATS_MIB_REASMREQDS] = 0, [IPSTATS_MIB_REASMOKS] = 0,
[IPSTATS_MIB_REASMFAILS] = 0, [IPSTATS_MIB_FRAGOKS] = 0, [IPSTATS_MIB_FRAGFAILS] = 0, [IPSTATS_MIB_FRAGCREATES] = 0, [IPSTATS_MIB_INMCASTPKTS] = 187, [IPSTATS_MIB_OUTMCASTPKTS] = 17, [IPSTATS_MIB_INBCASTPKTS] = 0, [IPSTATS_MIB_INBCASTPKTS] = 0, [IPSTATS_MIB_INBCASTPKTS] = 34220, [IPSTATS_MIB_OUTMCASTOCTETS] = 1048, [IPSTATS_MIB_INBCASTOCTETS] = 0, [IPSTATS_MIB_OUTMCASTOCTETS] = 0, [IPSTATS_MIB_OUTMCASTOCTETS] = 0, [IPSTATS_MIB_INBCASTOCTETS] = 0, ...]], [{nla_len=52, | IPSTATS_MIB_INBCASTOCTETS] = 0, ...]
 [ICMP6_MIB_INERRORS] = 0, [ICMP6_MIB_OUTMSGS] = 17, [ICMP6_MIB_OUTERRORS] = 0,
[ICMP6_MIB_CSUMERRORS] = 0]], [{nla_len=20, nla_type=IFLA_INET6_TOKEN}, inet_pton(AF_INET6, "::")], [{nla_len=5, nla_type=IFLA_INET6_ADDR_GEN_MODE}, IN6_ADDR_GEN_MODE_EUI64]]]], [{nla_len=41, nla_type=IFLA_PARENT_DEV_NAME}, "571f1de5-f156-473e-a73a-5527e15a"...],
[{nla_len=10, nla_type=IFLA_PARENT_DEV_BUS_NAME}, "vmbus"]]]], iov_len=4096}], msg_iovlen=1,
msg_namelen=12, msg_iov=[{iov_base=[{nlmsg_len=20, nlmsg_type=NLMSG_DONE,
nlmsg_flags=NLM_F_MULTI, nlmsg_seq=1735081199, nlmsg_pid=40619}, 0], iov_len=4096}],
msg iovlen=1, msg_controllen=0, msg_flags=0}, 0) = 20
[pid 40619] sendto(16, [{nlmsg len=20, nlmsg type=RTM GETADDR,
nlmsg_flags=NLM_F_REQUEST|NLM_F_DUMP, nlmsg_seq=1735081200, nlmsg_pid=0},
{ifa_family=AF_UNSPEC, ...}], 20, 0, {sa_family=AF_NETLINK, nl_pid=0, nl_groups=00000000}, 12)
[pid 40637] openat(AT FDCWD, "/lib/x86 64-linux-gnu/libsodium.so.23", O RDONLY|O CLOEXEC
nl_groups=00000000}, msg_namelen=12, msg_iov=[{iov_base=[[{nlmsg_len=76, nlmsg_type=RTM_NEWADDR, nlmsg_flags=NLM_F_MULTI, nlmsg_seq=1735081200, nlmsg_pid=40619}, {ifa_family=AF_INET, ifa_prefixlen=8, ifa_flags=IFA_F_PERMANENT, ifa_scope=RT_SCOPE_HOST,
[{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=31,
tstamp=31}]]], [{nlmsg_len=84, nlmsg_type=RTM_NEWADDR, nlmsg_flags=NLM_F_MULTI,
nlmsg_seq=1735081200, nlmsg_pid=40619}, {ifa_family=AF_INET, ifa_prefixlen=32,
nla_type=IFA_LOCAL}, inet_addr("10.255.255.254")], [{nla_len=8, nla_type=IFA_BROADCAST}, inet_addr("10.255.254")], [{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=31, tstamp=31}]], [{nlmsg_len=88,
nlmsg_type=RTM_NEWADDR, nlmsg_flags=NLM_F_MULTI, nlmsg_seq=1735081200, nlmsg_pid=40619},
ifa_index=if_nametoindex("eth0")}, [[{nla_len=8, nla_type=IFA_ADDRESS},
inet_addr("172.28.226.51")], [{nla_len=8, nla_type=IFA_LOCAL}, inet_addr("172.28.226.51")],
[{nla_len=8, nla_type=IFA_BROADCAST}, inet_addr("172.28.239.255")], [{nla_len=9,
[pid 40637] <... openat resumed>)
 [pid 40619] <... recvmsg resumed>{msg_name={sa_family=AF_NETLINK, nl_pid=0,
```

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nlmsg_type=RTM_NEWADDR, nlmsg_flags=NLM_F_MULTI, nlmsg_seq=1735081200, nlmsg_pid=40619},
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=31, tstamp=31}], [{nla_len=8, nla_type=IFA_FLAGS},
IFA F PERMANENT]]], [{nlmsg_len=72, nlmsg_type=RTM_NEWADDR, nlmsg_flags=NLM_F_MULTI,
nlmsg_seq=1735081200, nlmsg_pid=40619}, {ifa_family=AF_INET6, ifa_prefixlen=64, ifa_flags=IFA_F_PERMANENT, ifa_scope=RT_SCOPE_LINK, ifa_index=if_nametoindex("eth0")}, [{nla_len=20, nla_type=IFA_ADDRESS}, inet_pton(AF_INET6, "fe80::215:5dff:fe7f:bb89")], [{nla_len=20, nla_type=IFA_CACHEINFO}, {ifa_prefered=4294967295, ifa_valid=4294967295,
cstamp=46, tstamp=46], [{nla len=8, nla type=IFA FLAGS}, IFA F PERMANENT]]]], iov len=4096}],
[pid 40619] recvmsg(16, <unfinished ...>
[pid 40637] newfstatat(3, "", <unfinished ...>
nl_groups=00000000}, msg_namelen=12, msg_iov=[{iov_base=[{nlmsg_len=20, nlmsg_type=NLMSG_DONE,
nlmsg_flags=NLM_F_MULTI, nlmsg_seq=1735081200, nlmsg_pid=40619}, 0], iov_len=4096}],
msg_iovlen=1, msg_controllen=0, msg_flags=0}, 0) = 20
[pid 40637] <... newfstatat resumed>{st_mode=S_IFREG|0644, st_size=355040, ...},
[pid 40619] <... socket resumed>)
[pid 40637] <... mprotect resumed>)
[pid 40619] getsockname(16, {sa_family=AF_INET, sin_port=htons(5557),
sin_addr=inet_addr("127.0.0.1")}, [128 => 16]) = 0
[pid 40637] openat(AT_FDCWD, "/lib/x86 64-linux-gnu/libpgm-5.3.so.0", O RDONLY|O CLOEXEC
[pid 40637] <... openat resumed>) = 3
[pid 40619] <... getsockname resumed>{sa_family=AF_INET, sin_port=htons(5557),
[pid 40619] getpid( <unfinished ...>
[pid 40639] <... getpid resumed>)
                                                           = 40619
                                                           = 1 ([{fd=13, revents=POLLIN}])
                                                            = 40619
```

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[pid 40639] <... getpid resumed>)
[pid 40619] <... write resumed>)
[pid 40637] openat(AT FDCWD, "/lib/x86 64-linux-gnu/libnorm.so.1", O RDONLY|O CLOEXEC
<unfinished ...>
[pid 40637] <... openat resumed>)
[pid 40619] clock nanosleep(CLOCK REALTIME, 0, {tv sec=0, tv nsec=100000000}, <unfinished
[pid 40637] <... read resumed>"\177ELF\2\1\1\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0
AT EMPTY PATH) = 0
u64=140475696682032\}) = 0
"\08\1\0\0\0\2\0\0\0\2\5\236\0\0\0\0\0\367z\242\217(?\24\30\0\0\0\0\0\"..., 58, 0, NULL, 0)
[pid 40637] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libgssapi_krb5.so.2", O_RDONLY|O_CLOEXEC
[pid 40637] <... openat resumed>)
                                        = 0 (Timeout)
[pid 40621] <... getpid resumed>)
                                       = 40611
[pid 40637] <... newfstatat resumed>{st_mode=S_IFREG|0644, st_size=338648, ...},
AT EMPTY PATH) = 0
[pid 40623] epoll_wait(7,
= 832
[pid 40637] newfstatat(3, "", {st_mode=S_IFREG|0644, st_size=940560, ...}, AT_EMPTY_PATH) = 0 [pid 40637] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libmd.so.0", O_RDONLY|O_CLOEXEC) = 3
```

```
[pid 40637] openat(AT FDCWD, "/lib/x86 64-linux-gnu/libpthread.so.0", O RDONLY|O CLOEXEC)
[pid 40637] newfstatat(3, "", {st_mode=S_IFREG|0644, st_size=21448, ...}, AT_EMPTY_PATH) = 0
[pid 40637] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libkrb5.so.3", O_RDONLY|O_CLOEXEC) = 3
= 832
[pid 40637] mprotect(0x7f52f0609000, 634880, PROT_NONE) = 0
[pid 40637] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libk5crypto.so.3", O_RDONLY|O_CLOEXEC) = 3
= 832
[pid 40637] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libcom_err.so.2", O_RDONLY|O_CLOEXEC) = 3
[pid 40637] openat(AT_FDCWD, "/lib/x86 64-linux-gnu/libkrb5support.so.0", O RDONLY|O CLOEXEC)
[pid 40637] newfstatat(3, "", {st_mode=S_IFREG|0644, st_size=22600, ...}, AT_EMPTY_PATH) = 0 [pid 40637] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libresolv.so.2", O_RDONLY|O_CLOEXEC) = 3
[pid 40637] set_robust_list(0x7f52f0583ca0, 24) = 0
[pid 40637] rseq(0x7f52f0584360, 0x20, 0, 0x53053053) = 0
[pid 40637] mprotect(0x7f52f0c06000, 16384, PROT_READ) = 0
[pid 40637] mprotect(0x7f52f05b1000, 4096, PROT_READ) = 0
[pid 40637] mprotect(0x7f52f05b7000, 4096, PROT_READ) = 0
[pid 40637] mprotect(0x7f52f05e5000, 4096, PROT_READ) = 0
[pid 40637] mprotect(0x7f52f07ac000, 4096, PROT_READ) = 0
[pid 40637] mprotect(0x7f52f07fe000, 8192, PROT_READ) = 0
[pid 40637] mprotect(0x7f52f0c3b000, 4096, PROT_READ) = 0
[pid 40637] mprotect(0x7f52f0879000, 12288, PROT_READ) = 0

[pid 40637] mprotect(0x7f52f0978000, 4096, PROT_READ) = 0

[pid 40637] mprotect(0x7f52f09d4000, 4096, PROT_READ) = 0

[pid 40637] mprotect(0x7f52f09ed000, 4096, PROT_READ) = 0
                                                                       = 0x5623f6eb7000
[pid 40637] openat(AT_FDCWD, "/sys/devices/system/cpu/online", O_RDONLY|O_CLOEXEC) = 3
[pid 40637] read(3, "0-15\n", 1024) = 5
[pid 40637] openat(AT_FDCWD, "/sys/devices/system/cpu",
[pid 40637] newfstatat(3, "", {st_mode=S_IFDIR|0755, st_size=0, ...}, AT_EMPTY_PATH) = 0 [pid 40637] getdents64(3, 0x5623f6ec92e0 /* 31 entries */, 32768) = 896
```

```
[pid 40637] openat(AT_FDCWD, "/etc/nsswitch.conf", O_RDONLY|O_CLOEXEC) = 3
[pid 40637] newfstatat(3, "", {st_mode=S_IFREG|0644, st_size=510, ...}, AT_EMPTY_PATH) = 0
[pid 40637] read(3, "# /etc/nsswitch.conf\n#\n# Example"..., 4096) = 510
[pid 40637] read(3, "", 4096)
[pid 40637] newfstatat(3, "", {st_mode=S_IFREG|0644, st_size=510, ...}, AT_EMPTY_PATH) = 0
[pid 40637] openat(AT_FDCWD, "/etc/ld.so.cache", O_RDONLY|O_CLOEXEC) = 3
[pid 40637] newfstatat(3, "", {st_mode=S_IFREG|0644, st_size=22315, ...}, AT_EMPTY_PATH) = 0
[pid 40637] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/glibc-hwcaps/x86-64-v4/libnss_db.so.2",
O_RDONLY|O_CLOEXEC) = -1_EMORRY_(No such file or dimension)
[pid 40637] 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)
[pid 40637] newfstatat(AT_FDCWD, "/lib/x86_64-linux-gnu/glibc-hwcaps/x86-64-v3",
0x7ffed9aab560, 0) = -1 ENOENT (No such file or directory)
[pid 40637] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/tls/x86_64/x86_64/libnss_db.so.2",
O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
= -1 ENOENT (No such file or directory)
[pid 40637] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/tls/x86_64/libnss_db.so.2",
O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
[pid 40637] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/tls/x86_64/libnss_db.so.2",
[pid 40637] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/x86_64/x86_64/libnss_db.so.2",
[pid 40637] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/x86_64/libnss_db.so.2",
[pid 40637] openat(AT_FDCWD, "/usr/lib/x86_64-linux-gnu/glibc-hwcaps/x86-64-
v4/libnss_db.so.2", O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
[pid 40637] newfstatat (AT FDCWD, "/usr/lib/x86 64-linux-gnu/glibc-hwcaps/x86-64-v4",
0x7ffed9aab560, 0) = -1 ENOENT (No such file or directory)
[pid 40637] openat(AT FDCWD, "/usr/lib/x86 64-linux-gnu/glibc-hwcaps/x86-64-
0x7ffed9aab560, 0) = -1 ENOENT (No such file or directory)
[pid 40637] openat(AT_FDCWD, "/usr/lib/x86_64-linux-gnu/tls/x86_64/libnss_db.so.2",
O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
[pid 40637] openat(AT_FDCWD, "/usr/lib/x86_64-linux-gnu/tls/x86_64/libnss_db.so.2",
O RDONLY O CLOEXEC) = -1 ENOENT (No such file or directory)
```

```
[pid 40637] openat(AT_FDCWD, "/usr/lib/x86_64-linux-gnu/tls/libnss_db.so.2",

O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
[pid 40637] newfstatat(AT_FDCWD, "/usr/lib/x86_64-linux-gnu/tls", 0x7ffed9aab560, 0) = -1
O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
[pid 40637] newfstatat(AT_FDCWD, "/usr/lib/x86_64-linux-gnu/x86_64/x86_64", 0x7ffed9aab560, 0)
[pid 40637] openat(AT_FDCWD, "/usr/lib/x86_64-linux-gnu/x86_64/libnss_db.so.2", O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
[pid 40637] newfstatat(AT FDCWD, "/usr/lib/x86 64-linux-gnu/x86 64", 0x7ffed9aab560, 0) = -1
[pid 40637] openat(AT_FDCWD, "/lib/glibc-hwcaps/x86-64-v4/libnss_db.so.2", O_RDONLY|O_CLOEXEC)
[pid 40637] newfstatat(AT FDCWD, "/lib/glibc-hwcaps/x86-64-v4", 0x7ffed9aab560, 0) = -1 ENOENT
[pid 40637] openat(AT FDCWD, "/lib/glibc-hwcaps/x86-64-v3/libnss db.so.2", O RDONLY|O CLOEXEC)
[pid 40637] newfstatat(AT FDCWD, "/lib/glibc-hwcaps/x86-64-v3", 0x7ffed9aab560, 0) = -1 ENOENT
[pid 40637] openat(AT FDCWD, "/lib/glibc-hwcaps/x86-64-v2/libnss db.so.2", O RDONLY|O CLOEXEC)
[pid 40637] newfstatat(AT FDCWD, "/lib/glibc-hwcaps/x86-64-v2", 0x7ffed9aab560, 0) = -1 ENOENT
ENOENT (No such file or directory)
[pid 40637] newfstatat(AT_FDCWD, "/lib/tls/x86_64/x86_64", 0x7ffed9aab560, 0) = -1 ENOENT (No
[pid 40637] openat(AT FDCWD, "/lib/tls/x86_64/libnss_db.so.2", O_RDONLY|O_CLOEXEC) = -1 ENOENT
[pid 40637] openat(AT_FDCWD, "/lib/tls/x86_64/libnss_db.so.2", O_RDONLY|O_CLOEXEC) = -1 ENOENT
(No such file or directory)
ENOENT (No such file or directory)
[pid 40637] newfstatat(AT_FDCWD, "/lib/x86_64/x86_64", 0x7ffed9aab560, 0) = -1 ENOENT (No such
[pid 40637] openat(AT FDCWD, "/lib/x86 64/libnss db.so.2", O RDONLY|O CLOEXEC) = -1 ENOENT (No
such file or directory)
[pid 40637] openat(AT_FDCWD, "/usr/lib/glibc-hwcaps/x86-64-v3/libnss_db.so.2", O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
[pid 40637] openat(AT_FDCWD, "/usr/lib/glibc-hwcaps/x86-64-v2/libnss_db.so.2",
```

```
[pid 40637] openat(AT_FDCWD, "/usr/lib/tls/x86_64/x86_64/libnss_db.so.2", O_RDONLY|O_CLOEXEC)
= -1 ENOENT (No such file or directory)
[pid 40637] openat(AT_FDCWD, "/usr/lib/tls/x86_64/libnss_db.so.2", O_RDONLY|O_CLOEXEC) = -1
[pid 40637] openat(AT FDCWD, "/usr/lib/tls/x86 64/libnss db.so.2", O RDONLY|O CLOEXEC) = -1
such file or directory)
[pid 40637] openat(AT_FDCWD, "/usr/lib/tls/libnss_db.so.2", O_RDONLY|O CLOEXEC) = -1 ENOENT
(No such file or directory)
[pid 40637] openat(AT_FDCWD, "/usr/lib/x86_64/libnss_db.so.2", O_RDONLY|O CLOEXEC) = -1 ENOENT
[pid 40637] openat(AT_FDCWD, "/usr/lib/x86_64/libnss_db.so.2", O_RDONLY|O_CLOEXEC) = -1 ENOENT
[pid 40637] openat(AT FDCWD, "/usr/lib/libnss db.so.2", O RDONLY|O CLOEXEC) = -1 ENOENT (No
[pid 40637] openat(AT_FDCWD, "/etc/ld.so.cache", O_RDONLY|O_CLOEXEC) = 3
[pid 40637] newfstatat(3, "", {st_mode=S_IFREG|0644, st_size=22315, ...}, AT_EMPTY_PATH) = 0
[pid 40637] openat(AT_FDCWD, "/lib/x86_64-linux-gnu/libnss_db-2.35.so", O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
[pid 40637] openat(AT_FDCWD, "/lib/libnss_db-2.35.so", O_RDONLY|O_CLOEXEC) = -1 ENOENT (No
such file or directory)
[pid 40637] openat(AT_FDCWD, "/usr/lib/libnss_db-2.35.so", O_RDONLY|O_CLOEXEC) = -1 ENOENT (No
[pid 40637] openat(AT_FDCWD, "/etc/protocols", O_RDONLY|O_CLOEXEC) = 3
[pid 40637] newfstatat(3, "", {st_mode=S_IFREG|0644, st_size=2932, ...}, AT_EMPTY_PATH) = 0
[pid 40637] lseek(3, 0, SEEK_SET) = 0

[pid 40637] read(3, "# Internet (IP) protocols\n#\n# Up"..., 4096) = 2932

[pid 40637] read(3, "", 4096) = 0
[pid 40637] fcntl(3, F_GETFL) = 0x2 (flags [pid 40637] fcntl(3, F_SETFL, O_RDWR|O_NONBLOCK) = 0
[pid 40637] fcntl(4, F_GETFL) = 0x2 (flags [pid 40637] fcntl(4, F_SETFL, O_RDWR|O_NONBLOCK) = 0
[pid 40637] epoll_ctl(5, EPOLL_CTL_MOD, 4, {events=EPOLLIN, data={u32=4142700128, u64=94712466544224}}) = 0
```

```
[pid 40637]
TLS|CLONE_PARENT_SETTID|CLONE_CHILD_CLEARTID, child_tid=0x7f52f0580910,
parent tid=0x7f52f0580910, exit_signal=0, stack=0x7f52efd80000, stack_size=0x7ffc80,
[pid 40637] rt_sigprocmask(SIG_SETMASK, [QUIT], <unfinished ...>
[pid 40637] <... rt_sigprocmask resumed>NULL, 8) = 0
[pid 40640] <... set_robust_list resumed>) = 0
[pid 40640] <... rt_sigprocmask resumed>NULL, 8) = 0
[pid 40640] rt_sigprocmask(SIG_BLOCK, ~[RTMIN RT_1], <unfinished ...>
[pid 40640] sched_getparam(40640, <unfinished ...>
[pid 40637] fcntl(6, F_SETFL, O_RDWR|O_NONBLOCK <unfinished ...>
[pid 40640] <... sched_getparam resumed>[0]) = 0
[pid 40640] <... sched setscheduler resumed>) = 0
[pid 40640] prctl(PR SET NAME, "ZMQbg/Reaper" <unfinished ...>
[pid 40637] <... fcntl resumed>)
[pid 40640] <... prctl resumed>)
[pid 40637] epoll_create1(EPOLL_CLOEXEC) =
[pid 40637] epoll_ct1(7, EPOLL_CTL_ADD, 6,
u64=94712466564704}}) = 0
                                                     {events=EPOLLIN, data={u32
[pid 40637] rt_sigprocmask(SIG_BLOCK, \sim[], [QUIT], 8) = 0
[pid 40637] <... clone3 resumed> => {parent_tid=[40641]}, 88) = 40641
[pid 40637] rt sigprocmask(SIG_SETMASK, [QUIT], <unfinished ...>
[pid 40637] <... rt_sigprocmask resumed>NULL, 8) = 0
[pid 40641] <... set_robust_list resumed>) = 0
[pid 40641] rt_sigprocmask(SIG_SETMASK, [QUIT], <unfinished ...>
[pid 40637] <... eventfd2 resumed>) = 8
[pid 40641] <... sched getparam resumed>[0]) = 0
[pid 40641] sched_getscheduler(40641 <unfinished ...>
[pid 40641] < \dots sched getscheduler resumed>) = 0 (SCHED OTHER)
```

```
[pid 40641] prctl(PR_SET NAME, "ZMQbg/IO/0" <unfinished ...>
                                                = 0x5623f6ef9000
                                                = 40637
[pid 40641] <... poll resumed>) = 1 ([{fd=6, revent [pid 40637] write(8, "\1\0\0\0\0\0\0\0\0", 8 <unfinished ...>
[pid 40637] <... poll resumed>)
[pid 40637] clock nanosleep(CLOCK REALTIME, 0, {tv sec=0, tv nsec=100000000}, <unfinished
[pid 40641] fcntl(9, F_GETFL) = 0x2 (flags
[pid 40641] fcntl(9, F_SETFL, O_RDWR|O_NONBLOCK) = 0
[pid 40641] connect(9, {sa_family=AF_INET, sin_port=
sin_addr=inet_addr("127.0.0.1")}, 16) = -1 EINPROGRESS (Operation now in progress)
[pid 40641] epoll ctl(7, EPOLL CTL MOD, 9, {events=EPOLLOUT, data={u32=3892319280,
u64=139994056365104}} <unfinished ...>
[pid 40639] getpeername(17, <unfinished ...>
[pid 40639] <... getpeername resumed>{sa_family=AF_INET, sin_port=htons(54610),
[pid 40639] <... getsockname resumed>{sa_family=AF_INET, sin_port=htons(5557),
```

```
[pid 40639] getpeername(17, <unfinished ...>
[pid 40639] <... getpeername resumed>{sa_family=AF_INET, sin_port=htons(54610),
sin_addr=inet_addr("127.0.0.1")}, [128 => 16]) = 0
[pid 40641] setsockopt(9, SOL_TCP, TCP_NODELAY, [1], 4 < unfinished ...>
[pid 40639] fcntl(17, F_SETFL, O_RDWR|O_NONBLOCK < unfinished ...>
[pid 40639] getpid( <unfinished ...>
[pid 40641] <... getsockname resumed>{sa_family=AF_INET, sin_port=htons(54610),
[pid 40639] write(13, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>
[pid 40641] <... getpeername resumed>{sa_family=AF_INET, sin_port=htons(5557),
[pid 40641] <... fcntl resumed>) = 0x802 (flags O_RDWR|O_NONBLOCK)
[pid 40639] <... epoll_wait resumed>[{events=EPOLLIN, data={u32=1855014944,
[pid 40641] <... fcntl resumed>)
[pid 40639] <... getpid resumed>)
[pid 40641] write(6, "\1\0\0\0\0\0\0", 8 <unfinished ...>
[pid 40639] <... read resumed>"\1\0\0\0\0\0\0\0\0", 8) = 8
u64=140475562462160} <unfinished ...>
[pid 40641] <... getpid resumed>)
[pid 40639] <... epoll_ctl resumed>)
temporarily unavailable)
[pid 40641] <... epoll_ctl resumed>)
[pid 40639] <... getpid resumed>)
u64=139994056365104}} <unfinished ...>
```

```
[pid 40639] epoll_wait(14, <unfinished ...>
[pid 40641] <... epoll_ctl resumed>) = 0
[pid 40639] sendto(17, "\377\0\0\0\0\0\0\1\177", 10, 0, NULL, 0 <unfinished ...>
[pid 40641] <... recvfrom resumed>0x7f52e8001be8, 12, 0, NULL, NULL) = -1 EAGAIN (Resource
[pid 40639] epoll_wait(14, <unfinished ...>
[pid 40641] epoll_wait(7, [{events=EPOLLIN|EPOLLOUT, data={u32=3892319280, u64=139994056365104}}], 256, 30000) = 1
[pid 40641] sendto(9, "\377\0\0\0\0\0\0\0\1\177", 10, 0, NULL, 0) = 10
temporarily unavailable)
 [pid 40639] epoll_wait(14, <unfinished \dots
temporarily unavailable)
u64=140475562462160}} <unfinished ...>
[pid 40641] epoll_wait(7, <unfinished ...>
[pid 40639] recvfrom(17, <unfinished ...>
[pid 40639] recvfrom(17, <unfinished ...>
[pid 40641] <... epoll_wait resumed>[{events=EPOLLIN, data={u32=3892319280,
```

```
temporarily unavailable)
temporarily unavailable)
[pid 40639] epoll_wait(14, <unfinished ...>
[pid 40641] epoll_wait(7, <unfinished ...>
[pid 40639] <... epoll wait resumed>[{events=EPOLLIN, data={u32=67111888,
u64=139994056365104}} <unfinished ...>
[pid 40639] < \dots recvfrom resumed>0x7fc304003b48, 8192, 0, NULL, NULL) = -1 EAGAIN (Resource
temporarily unavailable)
temporarily unavailable)
[pid 40641] sendto(9, "\4)\5READY\vSocket-Type\0\0\0\6DEALER\10I"..., 43, 0, NULL, 0
[pid 40639] sendto(17, "\4)\5READY\vSocket-Type\0\0\0\6DEALER\10I"..., 43, 0, NULL, 0
                                     = 43
[pid 40641] epoll_wait(7, <unfinished ...>
u64=140475562462160}], 256, 29995) = 1
u64=140475562462160}} <unfinished ...>
```

```
[pid 40639] <... recvfrom resumed>"\4)\5READY\vSocket-Type\0\0\0\6DEALER\10I"..., 8192, 0,
u64=140475562462160}} <unfinished ...>
[pid 40619] getpid()
[pid 40619] clock nanosleep(CLOCK REALTIME, 0, {tv sec=0, tv nsec=100000000}, <unfinished
[pid 40637] clock nanosleep(CLOCK REALTIME, 0, {tv sec=0, tv nsec=100000000}, <unfinished
[pid 40619] poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)
[pid 40619] clock_nanosleep(CLOCK_REALTIME, 0, {tv_sec=0, tv_nsec=100000000}, <unfinished</pre>
[pid 40637] clock nanosleep(CLOCK REALTIME, 0, {tv sec=0, tv nsec=100000000}, <unfinished
                                                = 40637
[pid 40637] poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)
[pid 40637] clock_nanosleep(CLOCK_REALTIME, 0, {tv_sec=0, tv_nsec=100000000}, <unfinished</pre>
[pid 40619] getpid()
```

```
[pid 40619] clock nanosleep(CLOCK REALTIME, 0, {tv sec=0, tv nsec=100000000}, <unfinished
[pid 40619] clock nanosleep(CLOCK REALTIME, 0, {tv sec=0, tv nsec=100000000}, <unfinished
                                     = 40619
[pid 40637] clock nanosleep(CLOCK REALTIME, 0, {tv sec=0, tv nsec=100000000}, <unfinished
= 40637
                                     = 40611
[pid 40611] poll([{fd=8, events=POLLIN}], 1, 0) = 1 ([{fd=8, revents=POLLIN}])
[pid 40611] getpid() = 40611
                                     = 40611
[pid 40619] <... clock_nanosleep resumed>NULL) = 0
                                     = 40619
[pid 40619] clock nanosleep(CLOCK REALTIME, 0, {tv sec=0, tv nsec=100000000}, <unfinished
```

```
[pid 40637] clock nanosleep(CLOCK REALTIME, 0, {tv sec=0, tv nsec=100000000}, <unfinished
[pid 40619] poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)
[pid 40619] clock_nanosleep(CLOCK_REALTIME, 0, {tv_sec=0, tv_nsec=100000000}, <unfinished</pre>
[pid 40637] poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)
[pid 40637] clock_nanosleep(CLOCK_REALTIME, 0, {tv_sec=0, tv_nsec=100000000}, <unfinished_</pre>
[pid 40619] <... clock nanosleep resumed>NULL) = 0
[pid 40619] <... clock_nanosleep resumed>NULL) = 0
[pid 40637] clock nanosleep(CLOCK REALTIME, 0, {tv sec=0, tv nsec=100000000}, <unfinished
[pid 40619] clock nanosleep(CLOCK REALTIME, 0, {tv sec=0, tv nsec=100000000}, <unfinished
[pid 40619] clock nanosleep(CLOCK REALTIME, 0, {tv sec=0, tv nsec=100000000}, <unfinished
[pid 40619] poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)
[pid 40619] clock_nanosleep(CLOCK_REALTIME, 0, {tv_sec=0, tv_nsec=100000000}, <unfinished</pre>
```

```
[pid 40637] clock nanosleep(CLOCK REALTIME, 0, {tv sec=0, tv nsec=100000000}, <unfinished
[pid 40619] poll([{fd=15, events=POLLIN}], 1, 0) = 0 (Timeout)
[pid 40619] getpid() = 40619
[pid 40619] poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)
[pid 40619] clock_nanosleep(CLOCK_REALTIME, 0, {tv_sec=0, tv_nsec=100000000}, <unfinished</pre>
                                                   = 40637
[pid 40611] clock_nanosleep(CLOCK_REALTIME, 0, {tv_sec=1, tv_nsec=0}, <unfinished ...>
[pid 40619] <... clock_nanosleep resumed>NULL) = 0
                                                   = 40619
[pid 40619] poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)
[pid 40619] clock_nanosleep(CLOCK_REALTIME, 0, {tv_sec=0, tv_nsec=100000000}, <unfinished</pre>
                                                   = 40637
                                                   = 40619
[pid 40619] clock nanosleep(CLOCK REALTIME, 0, {tv sec=0, tv nsec=100000000}, <unfinished
[pid 40619] <... clock_nanosleep resumed>NULL) = 0
[pid 40619] clock nanosleep(CLOCK REALTIME, 0, {tv sec=0, tv nsec=100000000}, <unfinished
[pid 40637] clock nanosleep(CLOCK REALTIME, 0, {tv sec=0, tv nsec=100000000}, <unfinished
```

```
[pid 40637] clock nanosleep(CLOCK REALTIME, 0, {tv sec=0, tv nsec=100000000}, <unfinished
[pid 40619] poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)
[pid 40619] clock_nanosleep(CLOCK_REALTIME, 0, {tv_sec=0, tv_nsec=100000000}, <unfinished</pre>
[pid 40637] poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)
[pid 40637] clock_nanosleep(CLOCK_REALTIME, 0, {tv_sec=0, tv_nsec=100000000}, <unfinished_</pre>
[pid 40619] <... clock nanosleep resumed>NULL) = 0
[pid 40619] <... clock_nanosleep resumed>NULL) = 0
[pid 40637] clock nanosleep(CLOCK REALTIME, 0, {tv sec=0, tv nsec=100000000}, <unfinished
[pid 40619] clock nanosleep(CLOCK REALTIME, 0, {tv sec=0, tv nsec=100000000}, <unfinished
[pid 40619] clock nanosleep(CLOCK REALTIME, 0, {tv sec=0, tv nsec=100000000}, <unfinished
[pid 40619] poll([{fd=8, events=POLLIN}], 1, 0) = 0 (Timeout)
[pid 40619] clock_nanosleep(CLOCK_REALTIME, 0, {tv_sec=0, tv_nsec=100000000}, <unfinished</pre>
```

```
[pid 40637] clock nanosleep(CLOCK REALTIME, 0, {tv sec=0, tv nsec=100000000}, <unfinished
                                                      = 40611
                                                     = 40611
[pid 40611] <... pselect6 resumed>)
[pid 40621] <... getpid resumed>)
                                                     = 40611
[pid 40623] epoll_wait(7, <unfinished ...>
[pid 40621] epoll_ctl(7, EPOLL_CTL_MOD, 10, {events=EPOLLIN, data={u32=805309392,
u64=140609444645840\}) = 0
                                                     = 40619
                                                     = 40619
[pid 40639] <... epoll_wait resumed>[{events=EPOLLIN, data={u32=1855014944, u64=94611394611232}}], 256, -1) = 1
```

```
resumed>"\08\2\0\0\0\2\0\0\0\0\0\0\0\0\0\0\t\24c=)?\24\30\0\0\0\0\0\0\0\0\..., 8192, 0, NULL,
                                                      = 40619
[pid 40637] clock nanosleep(CLOCK REALTIME, 0, {tv sec=0, tv nsec=100000000}, <unfinished
                                                      = 40637
[pid 40641] read(6, "\1\0\0\0\0\0\0\0\0, 8) = 8
[pid 40641] epoll_ctl(7, EPOLL_CTL_MOD, 9, {events=EPOLLIN|EPOLLOUT, data={u32=3892319280,
0, NULL, 0) = 58
[pid 40639] <... epoll_wait resumed>[{events=EPOLLIN, data={u32=67111888,
u64=139994056365104}} <unfinished ...>
[pid 40639] write(15, "\1\0\0\0\0\0\0\0", 8 <unfinished ...>
[pid 40641] <... epoll_ctl resumed>)
[pid 40639] <... write resumed>)
[pid 40641] epoll_wait(7, <unfinished ...>
[pid 40639] epoll_wait(14, <unfinished ...>
```

```
[pid 40619] getpid()
[pid 40623] <... epoll_wait resumed>[{events=EPOLLIN, data={u32=1854957152, u64=94611394553440}}], 256, -1) = 1
                                              = 40619
[pid 40619] <... getpid resumed>)
                                             = 40619
[pid 40623] epoll_ctl(7, EPOLL_CTL_MOD, 9, {events=EPOLLIN|EPOLLOUT, data={u32=201331760,
[pid 40621] <... epoll wait resumed>[{events=EPOLLIN, data={u32=805309392,
                                              = 40619
                                             = 40611
u64=140475696682032}} <unfinished ...
[pid 40623] epoll_wait(7, <unfinished ...>
[pid 40621] epoll_wait(7, <unfinished ...>
[pid 40619] clock nanosleep(CLOCK REALTIME, 0, {tv sec=0, tv nsec=100000000}, <unfinished
strace: Process 40620 detached
strace: Process 40622 detached
strace: Process 40623 detached
strace: Process 40639 detached
```

strace: Process 40640 detached strace: Process 40641 detached

## Выводы

Интересно было поработать и разобраться в zmq