# Московский авиационный институт (национальный исследовательский университет)

# Факультет информационных технологий и прикладной математики

Кафедра вычислительной математики и программирования

Лабораторная работа №6-8 по курсу «Операционные системы»

Управлении серверами сообщений. Применение отложенных вычислений. Интеграция программных систем друг с другом

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Дата: Оценка: Подпись:

Москва, 2021

#### 1 Постановка задачи

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.

Топология – дерево общего вида, проверка – доступности ping id, вычислительная программа – поиск подстоки в строке.

# 2 Общие сведения о программе

Программа написанна на языке Cи в Uпіх подобной операционной системе на базе ядра Lіпих. B программе используєтся очередь сообщений ZeroMQ.

Программа поддерживает следующие команды:

- 1. create [id] [parent] создать узел с id [id], родителем которого является узел с id [parent].
- 2. remove [id] удаляет узел с данным id.
- 3. exec [id] [string] [pattern] запускает на узле [id] поиск подстроки [pattern] в строке [string].
- 4. ping [id] проверка доступности узда [id].

Выход из программы происзодит при окончании ввода, то есть при нажатии CTRL+D.

### 3 Общий метод и алгоритм решения

В программе используется тип соединения Request-Response. Узлы прередают друг другу информацию при помощи очереди сообщений.

Все функции описанны либо для самого целевого узла либо его родителя. А для доставки сообщений создан метод Send(). Этот методо проверяет на доступность всех детей, если они доступны то отправляет им сообщение. В случае если детей нет, то он возвращает родителю ошибку об не нахождении узла. Когда родитель получает ответы от всех детей он отправляет на уровень выше либо единственный отличающийся от ошибки поиска, либо саму ошибку поиска. И так пока ответ не достигнет отправителя.

Если команда обращается к несуществующему узлу, то мы сразу возвращаем ошибку. Для этого у нас есть множество созданных узлов.

При создании мы просо форкаем родитель и передаем ребенку данные для связи с ним.

При удалении же мы передаем все детям также сигнал об удалении и рекурсивно формируем список всех своих потомков. В который по итогу добавляем себя и отправляем родителю. По итогу клиент удаляет все элименты этого списка из множества созданных узлов.

Для проверки доступности мы посылаем ребенку сообщение, и если за 3 секунды не получаем ответа, то считаем узел не доступным.

Поиск подстроки в строке происходит с помощью наивного алгорима поиска из стандарной библиотеки.

# 4 Листинг программы

#### net func.hpp

```
1 | #pragma once
 2
3
   #include <iostream>
   #include <zmq.hpp>
 4
5
   #include <sstream>
6
   #include <string>
7
 8
   namespace my_net{
       #define MY_PORT 4040
9
       #define MY_IP "tcp://127.0.0.1:"
10
11
12
       int bind(zmq::socket_t *socket, int id){
13
           int port = MY_PORT + id;
14
           while(true){
               std::string adress = MY_IP + std::to_string(port);
15
16
                  socket->bind(adress);
17
18
                  break;
               } catch(...){
19
```

```
20
                   port++;
21
22
23
           return port;
24
25
26
       void connect(zmq::socket_t *socket, int port){
27
           std::string adress = MY_IP + std::to_string(port);
28
           socket->connect(adress);
29
       }
30
31
       void unbind(zmq::socket_t *socket, int port) {
32
           std::string adress = MY_IP + std::to_string(port);
33
           socket->unbind(adress);
34
       }
35
36
       void disconnect(zmq::socket_t *socket, int port) {
37
           std::string adress = MY_IP + std::to_string(port);
38
           socket->disconnect(adress);
       }
39
40
41
       void send_message(zmq::socket_t *socket, const std::string msg) {
42
           zmq::message_t message(msg.size());
43
           memcpy(message.data(), msg.c_str(), msg.size());
44
45
               socket->send(message);
46
           }catch(...){}
       }
47
48
49
       std::string reseave(zmq::socket_t *socket){
50
           zmq::message_t message;
51
           bool success = true;
52
           try{
53
               socket->recv(&message,0);
           }catch(...){
54
               success = false;
55
56
57
           if(!success || message.size() == 0){;
58
               throw -1;
59
60
           std::string str(static_cast<char*>(message.data()), message.size());
61
           return str;
62
       }
63 || }
```

#### node.hpp

```
1 \parallel #include <iostream>
2 | #include "net_func.hpp"
3 | #include <sstream>
```

```
4 | #include <unordered_map>
   #include "unistd.h"
6
7
8
   class Node{
9
   private:
10
       zmq::context_t context;
11
   public:
12
       std::unordered_map<int,zmq::socket_t*> children;
13
       std::unordered_map<int,int> children_port;
14
       zmq::socket_t parent;
15
       int parent_port;
16
17
       int id;
18
       Node(int _id , int _parent_port = -1): id(_id),
19
                                             parent(context,ZMQ_REP),
20
                                             parent_port(_parent_port){
21
           if(_id != -1){
22
               my_net::connect(&parent,_parent_port);
23
24
       }
25
26
       std::string Ping_child(int _id){
27
           std::string ans = "Ok: 0";
28
           ans = 0k: 0;
29
           if(_id == id){
               ans = "0k: 1";
30
31
               return ans;
32
           } else if(children.find(_id) != children.end()){
33
               std::string msg = "ping " + std::to_string(_id);
34
               my_net::send_message(children[_id],msg);
35
               try{
36
                  msg = my_net::reseave(children[_id]);
                   if(msg == "0k: 1")
37
38
                      ans = msg;
39
               } catch(int){}
40
               return ans;
41
           }else{
42
               return ans;
43
           }
44
       }
45
46
       std::string Create_child(int child_id,std::string program_path){
47
           std::string program_name = program_path.substr(program_path.find_last_of("/") +
                1);
48
           children[child_id] = new zmq::socket_t(context,ZMQ_REQ);
49
50
           int new_port = my_net::bind(children[child_id],child_id);
51
           children_port[child_id] = new_port;
```

```
52
           int pid = fork();
53
54
           if(pid == 0){
55
               execl(program_path.c_str(), program_name.c_str(), std::to_string(child_id).
                   c_str() , std::to_string(new_port).c_str() ,(char*)NULL);
56
           }else{
57
               std::string child_pid;
58
               try{
59
                   children[child_id] ->setsockopt(ZMQ_SNDTIMEO,3000);
60
                   my_net::send_message(children[child_id],"pid");
61
                   child_pid = my_net::reseave(children[child_id]);
62
               } catch(int){
                   child_pid = "Error: can't connect to child";
63
64
65
               return "Ok: " + child_pid;
66
           }
67
       }
68
69
       std::string Pid(){
70
           return std::to_string(getpid());
71
72
73
       std::string Send(std::string str,int _id){
74
           if(children.size() == 0){
75
               return "Error: now find";
76
           }else if(children.find(_id) != children.end()){
               if(Ping\_child(\_id) == "0k: 1"){
77
78
                   my_net::send_message(children[_id],str);
79
                   std::string ans;
80
                   try{
81
                       ans = my_net::reseave(children[_id]);
82
                   } catch(int){
83
                       ans = "Error: now find";
                   }
84
85
                   return ans;
               }
86
87
           }else{
88
               std::string ans = "Error: not find";
89
               for(auto& child: children ){
                   if(Ping_child(child.first) == "Ok: 1"){
90
91
                       std::string msg = "send " + std::to_string(_id) + " " + str;
92
                       my_net::send_message(children[child.first],msg);
93
                       try{
94
                          msg = my_net::reseave(children[child.first]);
95
                       } catch(int){
96
                          msg = "Error: not find";
97
                       }
98
                       if(msg != "Error: not find"){
99
                          ans = msg;
```

```
100
                        }
101
                    }
102
                }
103
                return ans;
            }
104
        }
105
106
107
        std::string Remove(){
108
            std::string ans;
109
            if(children.size() > 0){
                for(auto& child: children ){
110
111
                    if(Ping_child(child.first) == "Ok: 1"){
112
                        std::string msg = "remove";
113
                        my_net::send_message(children[child.first],msg);
114
                       try{
115
                           msg = my_net::reseave(children[child.first]);
116
                            if(ans.size() > 0)
117
                               ans = ans + " " + msg;
118
                            else
119
                               ans = msg;
120
                        } catch(int){}
121
122
                    my_net::unbind(children[child.first], children_port[child.first]);
123
                    children[child.first]->close();
124
125
                children.clear();
126
                children_port.clear();
127
128
            return ans;
129
        }
130 | };
    worker.cpp
 1 | #include "node.hpp"
    #include "net_func.hpp"
 3
    #include <fstream>
 4
    #include <vector>
 5
    #include <signal.h>
 6
 7
    int my_id = 0;
 8
 9
    void Log(std::string str){
 10
        std::string f = std::to_string(my_id) + ".txt";
        std::ofstream fout(f,std::ios_base::app);
 11
 12
        fout << str;</pre>
 13
        fout.close();
    }
 14
 15
```

16 | int main(int argc, char \*\*argv){

```
17
       if(argc != 3){
18
           return -1;
19
20
21
       Node me(atoi(argv[1]),atoi(argv[2]));
22
       std::string prog_path = "./worker";
23
       while(1){
24
           std::string message;
25
           std::string command = " ";
26
           message = my_net::reseave(&(me.parent));
27
           std::istringstream request(message);
28
           request >> command;
29
30
31
           if(command == "create"){
32
               int id_child, id_parent;
33
               request >> id_child;
34
               std::string ans = me.Create_child(id_child, prog_path);
35
               my_net::send_message(&me.parent,ans);
           } else if(command == "pid"){
36
37
               std::string ans = me.Pid();
38
               my_net::send_message(&me.parent,ans);
39
           } else if(command == "ping"){
40
               int id_child;
41
               request >> id_child;
42
               std::string ans = me.Ping_child(id_child);
43
               my_net::send_message(&me.parent,ans);
44
           } else if(command == "send"){
45
               int id;
46
               request >> id;
47
               std::string str;
48
               getline(request, str);
49
               str.erase(0,1);
50
               std::string ans;
51
               ans = me.Send(str,id);
52
               my_net::send_message(&me.parent,ans);
53
           } else if(command == "exec"){
54
               std::string str;
55
               std::string pattern;
56
               request >> str >> pattern;
               std::vector<int> answers;
57
58
               int start = 0;
59
               while(str.find(pattern,start) != -1){
60
                   start = str.find(pattern,start);
61
                   answers.push_back(start);
62
                   start++;
63
               }
64
               std::string to_send;
65
               if(answers.size() == 0){
```

```
66
                   to_send = "-1";
               }else{
67
68
                   to_send = std::to_string(answers[0]);
                   for(int i = 1; i < answers.size();++i){</pre>
69
                       to_send = to_send + ";" + std::to_string(answers[i]);
70
71
                   }
72
               }
73
               to_send = "Ok:" + std::to_string(me.id) + ":" + to_send;
74
               my_net::send_message(&me.parent,to_send);
75
           } else if(command == "remove"){
               std::string ans = me.Remove();
76
77
               ans = std::to_string(me.id) + " " + ans;
78
               my_net::send_message(&me.parent, ans);
79
               my_net::disconnect(&me.parent, me.parent_port);
               me.parent.close();
80
81
               break;
82
           }
83
       }
84
        sleep(1);
85
        return 0;
86 || }
```

#### client.cpp

```
1 | #include "node.hpp"
   #include "net_func.hpp"
 3 | #include "set"
   #include <signal.h>
 4
5
6
7
8
   int main(){
9
       std::set<int> all_nodes;
10
       //std::set<int> not_availvable;
11
       std::string prog_path = "./worker";
12
       Node me(-1);
13
       all_nodes.insert(-1);
14
       std::string command;
15
       while(std::cin >> command){
           if(command == "create"){
16
17
               int id_child, id_parent;
18
               std::cin >> id_child >> id_parent;
19
               if(all_nodes.find(id_child) != all_nodes.end()){
20
                   std::cout << "Error: Already exists" << std::endl;</pre>
21
               } else if(all_nodes.find(id_parent) == all_nodes.end()){
22
                   std::cout << "Error: Parent not found" << std::endl;</pre>
23
               }else if(id_parent == me.id){
24
                   std::string ans = me.Create_child(id_child, prog_path);
25
                   std::cout << ans << std::endl;</pre>
26
                   all_nodes.insert(id_child);
```

```
27
               } else{
28
                   std::string str = "create " + std::to_string(id_child);
29
                   std::string ans = me.Send(str, id_parent);
30
                   std::cout << ans << std::endl;</pre>
31
                   all_nodes.insert(id_child);
               }
32
33
           } else if(command == "ping"){
34
               int id_child;
35
               std::cin >> id_child;
36
               if(all_nodes.find(id_child) == all_nodes.end()){
                   std::cout << "Error: Not found" << std::endl;</pre>
37
38
               }else if(me.children.find(id_child) != me.children.end()){
39
                   std::string ans = me.Ping_child(id_child);
40
                   std::cout << ans << std::endl;</pre>
41
               }else{
42
                   std::string str = "ping " + std::to_string(id_child);
43
                   std::string ans = me.Send(str, id_child);
44
                   if(ans == "Error: not find"){
                       ans = "0k: 0";
45
46
47
                   std::cout << ans << std::endl;</pre>
48
               }
49
           }else if(command == "exec"){
50
               int id;
51
               std::string str;
52
               std::string pattern;
53
               std::cin >> id >> str >> pattern;
               std::string msg = "exec " + str + " " + pattern;
54
               if(all_nodes.find(id) == all_nodes.end()){
55
                   std::cout << "Error: Not found" << std::endl;</pre>
56
57
               }else{
58
                   std::string ans = me.Send(msg,id);
59
                   std::cout << ans << std::endl;</pre>
               }
60
61
62
           }else if(command == "remove"){
63
               int id;
64
               std::cin >> id;
65
               std::string msg = "remove";
66
               if(all_nodes.find(id) == all_nodes.end()){
67
                   std::cout << "Error: Not found" << std::endl;</pre>
68
               }else{
69
                   std::string ans = me.Send(msg,id);
70
                   if(ans != "Error: not find"){
71
                       std::istringstream ids(ans);
72
                       int tmp;
73
                       while(ids >> tmp){
74
                           all_nodes.erase(tmp);
75
```

```
ans = "0k";
76
77
                       if(me.children.find(id) != me.children.end()){
78
                           my_net::unbind(me.children[id],me.children_port[id]);
79
                           me.children[id]->close();
80
                           me.children.erase(id);
81
                           me.children_port.erase(id);
                       }
82
83
                   }
                   std::cout << ans << std::endl;</pre>
84
85
           }
86
87
        }
88
       me.Remove();
        return 0;
89
90 || }
```

# 5 Демонстрация работы программы

```
pavel@DESKTOP-K5KMLPV:~/Project/mai/2_course/OS/LB6_8$ ./client
create 2 -1
Ok: 2770
create 3 2
Ok: 2773
create 4 3
Ok: 2776
create 5 3
Ok: 2779
ping 5
Ok: 1
ping 4
0k: 1
exec 3
abracadabra
abra
Ok:3:0;7
remove 5
0k
ping 5
Error: Not found
remove 3
Ok
ping 3
Error: Not found
remove 4
Error: Not found
```

#### 6 Strace

```
pavel@DESKTOP-K5KMLPV:"/Project/mai/2_course/OS/LB6_8$ cat log.txt
execve("./client",["./client"],0x7ffe8b8368e0 /* 30 vars */) = 0
brk(NULL) = 0x5637fbcb3000
arch_prctl(0x3001 /* ARCH_??? */,0x7fff0a455420) = -1 EINVAL (Invalid argument)
access("/etc/ld.so.preload",R_OK) = -1 ENDENT (No such file or directory)
openat(AT_FDCWD,"./tls/x86_64/x86_64/lbzmq.so.5",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)
openat(AT_FDCWD,"./tls/x86_64/libzmq.so.5",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./tls/x86_64/libzmq.so.5",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./tls/x86_64/libzmq.so.5",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/libzmq.so.5",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/libzmq.so.5",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/libzmq.so.5",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/libzmq.so.5",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/libzmq.so.5",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/libzmq.so.5",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./ts6_fold)
openat(AT_FDCWD,"./ts6_fo
```

```
openat(AT_FDCWD,"/lib/x86_64-linux-gnu/libzmq.so.5",0_RDONLY|0_CLOEXEC) = 3
 mmap(NULL, 8192, PROT_READ)PROT_WRITE, MAP_PRIVATE | MAP_ANONYMOUS, -1,0) = 0x7f721d427000
mmap(NULL, 678128, PROT_READ, MAP_PRIVATE | MAP_DENYWRITE, 3,0) = 0x7f721d381000
mmap(0x7f721d3897000, 430080, PROT_READ)PROT_EXEC, MAP_PRIVATE | MAP_FIXED | MAP_DENYWRITE, 3,0x16000) = 0x7f721d397000
mmap(0x7f721d400000, 126976, PROT_READ, MAP_PRIVATE | MAP_FIXED | MAP_DENYWRITE, 3,0x7f000) = 0x7f721d400000
mmap(0x7f721d41f000, 32768, PROT_READ)PROT_WRITE, MAP_PRIVATE | MAP_FIXED | MAP_DENYWRITE, 3,0x9d000) = 0x7f721d41f000
close(3) = 0
openat(AT_FDCWD,"./tls/x86_64/x86_64/libstdc++.so.6",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./tls/x86_64/libstdc++.so.6",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./tls/x86_64/libstdc++.so.6",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./tls/xlibstdc++.so.6",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/x86_64/libstdc++.so.6",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/libstdc++.so.6",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/libstdc++.so.6",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/libstdc++.so.6",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libstdc++.so.6",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libstdc++.so.6",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libstdc++.so.6",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libstdc++.so.6",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libstdc++.so.6",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libstdc++.so.6",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libstdc++.so.6",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libstdc++.so.6",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libstdc++.so.6",O_RDONLY|O_CLOEXEC) = -1 ENOENT (NO such file or directory)
openat(AT_FDCWD,"./libstdc++.so.6",O_RDONLY|O_CLOEXEC) = -1 ENOENT (NO such file or directory)
openat(AT_FDCWD,"./libstdc++.so.6",O_RDONLY|O_CLOEXEC) = -1 ENOENT (NO such file or directory)
mmap(0x7f721d236000,983040,PROT_READ|PROT_EXEC,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x96000) = 0x7f721d236000

mmap(0x7f721d326000,299008,PROT_READ,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x186000) = 0x7f721d326000
  \begin{aligned} & mmap (0x7f721d370000, 57344, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE, 3, 0x1cf000) &= 0x7f721d370000 \\ & mmap (0x7f721d37e000, 10240, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS, -1, 0) &= 0x7f721d37e000 \end{aligned}
                                                                                           = 0
read(3,"\177ELF\2\1\1\0\0\0\0\0\0\0\0\3\0>\0\1\0\0\0\3405\0\0\0\0\0\0"...,832) = 832
mmap(NULL,107592,PROT_READ,MAP_PRIVATE|MAP_DENYWRITE,3,0) = 0x7f721d185000
mmap(0x7f721d188000,73728,PROT_READ|PROT_EXEC_MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x3000) = 0x7f721d188000 mmap(0x7f721d19a000,16384,PROT_READ,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x15000) = 0x7f721d19a000
 mmap(0x7f721d19e000,8192,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x18000) = 0x7f721d19e000
= 0
pread64(3,"\4\0\0\0\24\0\0\0\3\0\0\GNU\0\t\233\222%\274\260\320\31\331\326\10\204\276X>\263"...,68,880) = 68 mmap(NULL,2036952,PROT_READ,MAP_PRIVATE|MAP_DENYWRITE,3,0) = 0x7f721cf93000
mmap(0x7f721cfb8000,1847296,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x25000) = 0x7f721cfb8000
mmap(0x7f721cfb8000,330104,PROT_READ|PROT_EXEC,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x19d000) = 0x7f721d130000
mmap(0x7f721d17b000,24576,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x1e7000) = 0x7f721d17b000
 mmap(0x7f721d181000,13528,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS,-1,0) = 0x7f721d181000
close(3) = 0
openat(AT_FDCWD,"./tls/x86_64/x86_64/libsodium.so.23",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./tls/x86_64/libsodium.so.23",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./tls/x86_64/libsodium.so.23",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./tls/libsodium.so.23",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/x86_64/libsodium.so.23",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/libsodium.so.23",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/libsodium.so.23",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
 openat(AT_FDCWD,"./libsodium.so.23",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory) openat(AT_FDCWD,"/lib/x86_64-linux-gnu/libsodium.so.23",O_RDONLY|O_CLOEXEC) = 3
 openat(AT_FDCWD,"./tls/x86_64/x86_64/libpgm-5.2.so.0",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
```

```
mmap(0x7f721cf37000,14384,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS,-1,0) = 0x7f721cf37000
                                                                                                                                           = 0
 fstat(3,{st_mode=S_IFREG|0644,st_size=690344,...}) = 0
mmap(NULL,8192,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_ANONYMOUS,-1,0) = 0x7f721ceea000
 \begin{aligned} & mmap (NULL, 1420000, PROT_READ, MAP_PRIVATE | MAP_DENYWRITE, 3,0) = 0x7f721cd8f000 \\ & mmap (0x7f721cd99000, 421888, PROT_READ | PROT_EXEC, MAP_PRIVATE | MAP_FIXED | MAP_DENYWRITE, 3,0xa000) = 0x7f721cd99000 \end{aligned}
  mmap(0x7f721ce00000,217088,PROT_READ,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x71000) = 0x7f721ce00000
mmap(0x7f721ce35000,16384,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0xa5000) = 0x7f
  mmap(0x7f721ce39000,723680,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS,-1,0) = 0x7f721ce39000
close(3)

openat(AT_FDCWD,"./tls/x86_64/x86_64/libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./tls/x86_64/libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./tls/x86_64/libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./tls/libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./x86_64/libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./x86_64/libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./x86_64/libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./s86_64/libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./s66_64/libgssapi_krb5.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"./s66_64/libgssapi_kr
  mmap(0x7f721cd7f000,49152,PROT_READ,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x3d000) = 0x7f721cd7f000
mmap(0x7f721cd8b000,16384,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x48000) = 0x7f721cd8b000
close(3)

openat(AT_FDCWD,"./tls/x86_64/x86_64/libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD,"./tls/x86_64/libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD,"./tls/x86_64/libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD,"./tls/libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD,"./x86_64/libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD,"./x86_64/libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD,"./x86_64/libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD,"./tlbpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD,"./libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD,"./libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD,"./libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD,"./libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD,"./libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD,"./libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD,"./libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD,"./libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD,"./libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD,"./libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD,"./libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD,"./libpthread.so.0",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD,"./libpthread.s
                                                                                                                                          = 0
 fstat(3,{st_mode=S_IFREG|0755,st_size=157224,...}) = 0 pread64(3,"\4\0\0\0\24\0\0\0\3\0\0GNU\0\345Ga\367\265T\320\374\301V)Yf]\223\337"...,68,824) = 68
mmap(NULL,140408,PROT_READ_MAP_PRIVATE[MAP_DENYWRITE,3,0) = 0x7f721cd3f000  
mmap(0x7f721cd36000,69632,PROT_READ|PROT_EXEC,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x7000) = 0x7f721cd36000  
mmap(0x7f721cd37000,20480,PROT_READ_MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x18000) = 0x7f721cd37000  
mmap(0x7f721cd36000,8192,PROT_READ_PROT_WRITE,MAP_PRIVATE|MAP_FIXED_MAP_DENYWRITE,3,0x16000) = 0x7f721cd36000  
mmap(0x7f721cd36000,8192,PROT_READ_PROT_WRITE,MAP_PRIVATE|MAP_FIXED_MAP_DENYWRITE,3,0x16000) = 0x7f721cd36000
  mmap(0x7f721cd3e000,13432,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS,-1,0) = 0x7f721cd3e000
mmap(NULL,1368336,PROT_READ,MAP_PRIVATE|MAP_DENYWRITE,3,0) = 0x7f721cbd0000
mmap(0x7f721cbdf000,684032,PROT_READ|PROT_EXEC,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0xf000) = 0x7f721cbdf000
 mmap(0x7f721cc86000,618496,PROT_READ,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0xb6000) = 0x7f721cc86000
mmap(0x7f721cd1d000,8192,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x14c000) = 0x7f721cd1d000
```

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mmap(0x7f721cb15000,397312,PROT_READ|PROT_EXEC,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x22000) = 0x7f721cb15000 mmap(0x7f721cb76000,299008,PROT_READ,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x83000) = 0x7f721cb76000
   mmap(0x7f721cbc0000,65536,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0xcc000) = 0x7f721cbc0000
 fstat(3,{st_mode=S_IFREG|0644,st_size=191040,...}) = 0
mmap(NULL,8192,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_ANONYMOUS,-1,0) = 0x7f721caf1000
 mmap(NULL,196696,PROT_READ,MAP_PRIVATE | MAP_DENYWRITE,3,0) = 0xff721cac0000
mprotect(0xff721cac4000,172032,PROT_NONE) = 0
mmap(0xff721cac4000,114688,PROT_READ|PROT_EXEC,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x4000) = 0xff721cac4000
  mmap(0x7f721cae0000,53248,PROT_READ,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x20000) = 0x7f721cae0000
  mmap(0x7f721caee000.8192.PROT READ|PROT WRITE.MAP PRIVATE|MAP FIXED|MAP DENYWRITE.3.0x2d000) = 0x7f721caee000
   mmap(0x7f721caf0000,88,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS,-1,0) = 0x7f721caf0000
= 0
 fstat(3,{st_mode=S_IFREG|0644,st_size=22600,...}) = 0
mmap(NULL,24744,PROT_READ,MAP_PRIVATE|MAP_DENYWRITE,3,0) = 0x7f721cab9000
  mmap(0x7f721cabb000,8192,PROT_READ|PROT_EXEC,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x2000) = 0x7f721cabb000 mmap(0x7f721cabd000,4096,PROT_READ,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x4000) = 0x7f721cabd000
   mmap(0x7f721cabe000,8192,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x4000) = 0x7f721cabe000
 close(3) = 0
openat(AT_FDCWD,"./tls/x86_64/x86_64/libkrb5support.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./tls/x86_64/libkrb5support.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./tls/x86_64/libkrb5support.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./tls/libkrb5support.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/x86_64/libkrb5support.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/libkrb5support.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/libkrb5support.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libkrb5support.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./libkrb5support.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/libkrb5support.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/libkrb5support.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/libkrb5support.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/libkrb5support.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/libkrb5support.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/libkrb5support.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/libkrb5support.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/libkrb5support.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/libkrb5support.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/libkrb5support.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/libkrb5support.so.0",0_RDONLY|0_CLOEXEC) = -1 ENOENT 
mmap(NULL,58344,PROT_READ)MAP_PRIVATE|MAP_FRIVATE|MAP_FRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x3000) = 0x7f721caad000
mmap(0x7f721caad000,28672,PROT_READ)MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x3000) = 0x7f721caad000
mmap(0x7f721cab4000,12288,PROT_READ)MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x3000) = 0x7f721cab4000
   mmap(0x7f721cab7000,8192,PROT\_READ|PROT\_WRITE\_MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE\_3,0xc000) = 0x7f721cab7000 \\ mmap(0x7f721cab7000,8192,PROT\_READ|PROT\_WRITE\_MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE\_3,0xc000) \\ = 0x7f721cab7000 \\ mmap(0x7f721cab7000,8192,PROT\_READ|PROT\_WRITE\_MAP\_PRIVATE|MAP\_FIXED|MAP\_DENYWRITE\_3,0xc000) \\ = 0x7f721cab7000 \\ mmap(0x7f721cab7000,8192,PROT\_READ|PROT\_WRITE\_MAP\_FIXED|MAP\_DENYWRITE\_3,0xc000) \\ = 0x7f721cab7000 \\ mmap(0x7f721cab7000,8192,PROT\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP_READ|PROT\_WRITE\_MAP\_READ|PROT\_WRITE\_MAP_READ|PROT\_WRITE\_MAP_READ|PROT\_WRITE\_MAP_READ|PROT\_WRITE\_MAP_READ|PROT\_WRITE\_MAP_TROT\_WRITE_MAP_TROT_WRITE_TROT_WRITE_TROT_WRITE_TROT_WRITE_TROT_WRITE_TROT_WRITE_TROT_WRITE_
mmap(0x7f721caa7000,4096,PROT_READ,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x4000) = 0x7f721caa7000
mmap(0x7f721caa8000,8192,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x4000) = 0x7f721caa8000
```

```
mmap(0x7f721ca8b000,65536,PR0T_READ|PR0T_EXEC,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x4000) = 0x7f721ca8b000 mmap(0x7f721ca9b000,12288,PR0T_READ,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x14000) = 0x7f721ca9b000
 mmap(0x7f721ca9f000,8192,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x17000) = 0x7f721ca9f000
mmap(0x7f721caa1000,6784,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS,-1,0) = 0x7f721caa1000
                                                             = 0
mmap(0x7f721ca82000,4096,PROT_READ,MAP_PRIVATE|MAP_FIXED|MAP_DENYWRITE,3,0x3000) = 0x7f721ca82000
 \texttt{mmap}(0x7f721\text{ca83000},8192,\texttt{PROT}\_\texttt{READ}|\texttt{PROT}\_\texttt{WRITE},\texttt{MAP}\_\texttt{PRIVATE}|\texttt{MAP}\_\texttt{FIXED}|\texttt{MAP}\_\texttt{DENYWRITE},3,0x3000) = 0x7f721\text{ca83000}
 mmap (NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1,0) = 0x7f721ca7d000
mmap (NULL, 8192, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1,0) = 0x7f721ca7b000
 arch_prctl(ARCH_SET_FS,0x7f721ca7e600) = 0
 mprotect(0x7f721d17b00,12288,PROT_READ) = 0
mprotect(0x7f721d17b00,12288,PROT_READ) = 0
mprotect(0x7f721ca83000,4096,PROT_READ) = 0
 mprotect(0x7f721caa8000.4096.PROT READ) = 0
 mprotect(0x7f721cab7000,4096,PROT_READ) = 0
 mprotect(0x7f721cd3c000,4096,PROT_READ) = 0
mprotect(0x7f721cabe000,4096,PROT_READ) = 0
mprotect(0x7f721caee000,4096,PROT_READ) = 0
 mprotect(0x7f721cbc0000,57344,PROT_READ) = 0
mprotect(0x7f721cd1d000,4096,PROT_READ) = 0
 mprotect(0x7f721cd8b000,8192,PROT_READ) = 0
mprotect(0x7f721d19e000,4096,PROT_READ) = 0
mprotect(0X7f721d379000,4096,PR0T_READ) = 0
mprotect(0X7f721d370000,45056,PR0T_READ) = 0
mprotect(0X7f721cf35000,4096,PR0T_READ) = 0
mprotect(0X7f721cf35000,4096,PR0T_READ) = 0
 mprotect(0x7f721d41f000,28672,PROT_READ) = 0
mprotect(0x5637fb5f8000,4096,PROT_READ) = 0
 mprotect(0x7f721d462000,4096,PROT_READ) = 0
munmap(0x7f721d429000,45372) = 0
 set_tid_address(0x7f721ca7e8d0)
                                                           = 2942
 set_robust_list(0x7f721ca7e8e0,24)
                                                           = 0
set_robust_list(0x7f/21ca/e6e0,24) = 0
rt_sigaction(SIGRTMIN,{sa_handler=0x7f721cd26cbf0,sa_mask=[],sa_flags=SA_RESTORER|SA_SIGINF0,sa_restorer=0x7f721cd343c0},NULL,8) = 0
rt_sigaction(SIGRT_1,{sa_handler=0x7f721cd26cb0,sa_mask=[],sa_flags=SA_RESTORER|SA_RESTART|SA_SIGINF0,sa_restorer=0x7f721cd343c0},NULL,8) = 0
rt_sigprocmask(SIG_UNBLOCK,[RTMIN RT_1],NULL,8) = 0
prlimit64(0,RLIMIT_STACK,NULL,{rlim_cur=8192*1024,rlim_masrRLIM64_INFINITY}) = 0
 brk(NULL)
                                                            = 0x5637fbcb3000
 brk(0x5637fbcd4000)
                                                             = 0x5637fbcd4000
 futex(0x7f721d37e6bc,FUTEX_WAKE_PRIVATE,2147483647) = 0 futex(0x7f721d37e6c8,FUTEX_WAKE_PRIVATE,2147483647) = 0
 openat(AT_FDCWD,"/sys/devices/system/cpu/online",0_RDONLY|0_CLOEXEC) = 3
read(3,"0-3\n",8192) = 4
 close(3)
                                                            = 0
 openat(AT_FDCWD, "/sys/devices/system/cpu", O_RDONLY|O_NONBLOCK|O_CLOEXEC|O_DIRECTORY) = 3
 getdents64(3,/*17 entries */,32768) = 496
getdents64(3,/* 0 entries */,32768) = 0
getpid() = 2942

sched_getaffinity(2942,128,[0,1,2,3]) = 32

openat(AT_FDCW),"/etc/nsswitch.conf",0_RDONLY|0_CLOEXEC) = 3

fstat(3,fst_mode=S_IFREG(0644,st_size=510,...}) = 0

read(3,"#/etc/nsswitch.conf\n#\n# Example"...,4096) = 510

read(3,"",4096) = 0
 close(3)
```

```
openat(AT_FDCWD,"./tls/x86_64/libnss_db.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory) openat(AT_FDCWD,"./tls/x86_64/libnss_db.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory) openat(AT_FDCWD,"./tls/x86_64/libnss_db.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory) openat(AT_FDCWD,"./tls/libnss_db.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory) openat(AT_FDCWD,"./x86_64/x86_64/libnss_db.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory) openat(AT_FDCWD,"./x86_64/libnss_db.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory) openat(AT_FDCWD,"./x86_64/libnss_db.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory) openat(AT_FDCWD,"./1bnss_db.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory) openat(AT_FDCWD,"./libnss_db.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory) openat(AT_FDCWD,"./scholar) openat(
     fstat(3, st_mode=S_IFREG|0644, st_size=45372,...}) = 0
mmap(NULL, 45372, PROT_READ, MAP_PRIVATE, 3, 0) = 0x7f721d429000
                                                                                                                                                                                                                         = 0
     close(3)
     close(3) = 0
openat(AT_FDCWD,"/lib/x86_64-linux-gnu/tls/x86_64/x86_64/libnss_db.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
stat("/lib/x86_64-linux-gnu/tls/x86_64/x86_64",0x7fff0a452420) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/lib/x86_64-linux-gnu/tls/x86_64/libnss_db.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
stat("/lib/x86_64-linux-gnu/tls/x86_64",0x7fff0a452420) = -1 ENOENT (No such file or directory)
   stat("/lib/x86_64-linux_gnu/tls/x86_64",0x7fff0a452420) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD, "/lib/x86_64-linux_gnu/tls/x86_64').ox7fff0a452420) = -1 ENDENT (No such file or directory)

stat("/lib/x86_64-linux_gnu/tls/x86_64",0x7fff0a452420) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD, "/lib/x86_64-linux_gnu/tls/libnss_db.so.2",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)

stat("/lib/x86_64-linux_gnu/tls",0x7fff0a452420) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD, "/lib/x86_64-linux_gnu/x86_64/x86_64/libnss_db.so.2",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)

stat("/lib/x86_64-linux_gnu/x86_64",0x7fff0a452420) = -1 ENDENT (No such file or directory)

openat(AT_FDCWD, "/lib/x86_64-linux_gnu/x86_64/libnss_db.so.2",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)

stat("/lib/x86_64-linux_gnu/x86_64",0x7fff0a452420) = -1 ENDENT (No such file or directory)

stat("/lib/x86_64-linux_gnu/x86_64",0x7fff0a452420) = -1 ENDENT (No such file or directory)
     openat(AT_FDCWD,"/lib/x86_64-linux-gnu/x86_64/libnss_db.so.2",0_RDONLY|0_CLOEXEC) = -1 ENCENT (No such file or directory) stat("/lib/x86_64-linux-gnu/x86_64",0x7fff0a452420) = -1 ENCENT (No such file or directory) openat(AT_FDCWD,"/lib/x86_64-linux-gnu/libnss_db.so.2",0_RDONLY|0_CLOEXEC) = -1 ENCENT (No such file or directory) stat("/lib/x86_64-linux-gnu",{st_mode=S_IFDIR|0755,st_size=40960,...}) = 0
openat(AT_FDCWD,"/lib/x86_64-linux-gnu/libnss_db.so.2",0_RDDNLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
stat("/lib/x86_64-linux-gnu," [st_mode=S_IFDIR|0755,st_size=40960,...}) = 0
openat(AT_FDCWD,"\usr/lib/x86_64-linux-gnu/tls/x86_64/x86_64/libnss_db.so.2",0_RDDNLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
stat("/usr/lib/x86_64-linux-gnu/tls/x86_64/x86_64",0x7fff0a452420) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/usr/lib/x86_64-linux-gnu/tls/x86_64",0x7fff0a452420) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/usr/lib/x86_64-linux-gnu/tls/x86_64",0x7fff0a452420) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/usr/lib/x86_64-linux-gnu/tls/x86_64",0x7fff0a452420) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"\usr/lib/x86_64-linux-gnu/tls/x86_64",0x7fff0a452420) = -1 ENOENT (No such file or directory)
stat("/usr/lib/x86_64-linux-gnu/tls",0x7fff0a452420) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"\usr/lib/x86_64-linux-gnu/tls",0x7fff0a452420) = -1 ENOENT (No such file or directory)
stat("/usr/lib/x86_64-linux-gnu/x86_64/x86_64",0x7fff0a452420) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"\usr/lib/x86_64-linux-gnu/x86_64/x86_64",0x7fff0a452420) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"\usr/lib/x86_64-linux-gnu/x86_64/\uspace,0x7fff0a452420) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"\usr/lib/x86_64-linux-gnu/x86_64/\uspace,0x7fff0a452420) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"\usr/lib/x86_64-linux-gnu/x86_64/\uspace,0x7fff0a452420) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"\usr/lib/x86_64-linux-gnu/x86_64/\uspace,0x7fff0a452420) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"\usr/lib/x86_64-linux-gnu/x86_64\uspace,0x7fff0a452420) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"\usr/lib/x86_64-linux-gnu/x86_64\uspace,0x7fff0a452420) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"\usr/lib/x86_64\uspace,0x7fff0a452420) = -1 ENOENT (No
     stat("/lib/tls/x86_64",0x7fff0a452420) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/lib/tls/libnss_db.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
     openat(AT_FDCWD,"/lib/x86_64/x86_64/libnss_db.so.2",0_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
     openat(AT_FDCWD,"/lib/x86_64/x86_64/libnss_db.so.2",Q_RDUNLY|Q_CLUEXEC) = -1 ENDENT (No such file or dir stat("/lib/x86_64/x86_64",0x7fff0a452420) = -1 ENDENT (No such file or directory) openat(AT_FDCWD,"/lib/x86_64/libnss_db.so.2",Q_RDONLY|Q_CLUEXEC) = -1 ENDENT (No such file or directory) stat("/lib/x86_64",0x7fff0a452420) = -1 ENDENT (No such file or directory) openat(AT_FDCWD,"/lib/x86_64/libnss_db.so.2",Q_RDONLY|Q_CLUEXEC) = -1 ENDENT (No such file or directory)
     stat("/lib/x86_64",0x7fff0a452420) = -1 ENDENT (No such file or directory)
openat(AT_FDCWD,"/lib/libnss_db.so.2",0_RDONLY|0_CLOEXEC) = -1 ENDENT (No such file or directory)
     stat("/lib", st_mode=S_IFDIR[0755, st_size=4096,...}) = 0
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)
     Openat(AI_FDCWD, /usr/lib/ts/x86_64/x86_64",0x7fff0a452420) = -1 ENOENT (No such file or directory)

openat(AI_FDCWD, "/usr/lib/ts/x86_64/libnss_db.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

stat("/usr/lib/ts/x86_64",0x7fff0a452420) = -1 ENOENT (No such file or directory)

openat(AI_FDCWD, "/usr/lib/ts/x86_64/libnss_db.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)

stat("/usr/lib/ts/x86_64",0x7fff0a452420) = -1 ENOENT (No such file or directory)

stat("/usr/lib/ts/x86_64",0x7fff0a452420) = -1 ENOENT (No such file or directory)
     statt/usr/lib/tis/xso_o4-,0xfifio4452420/ = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/usr/lib/tis/libnss_db.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
statt("/usr/lib/tis",0x7fff0a452420) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/usr/lib/x86_64/x86_64/ibnss_db.so.2",O_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)
     stat("\usr/lib/x86_64/x86_64",0x7fff0a452420) = -1 ENOENT (No such file or directory)

openat(AT_FDCWD,"\usr/lib/x86_64/libnss_db.so.2",0_RDONLY|O_CLOEXEC) = -1 ENOENT (No such file or directory)

stat("\usr/lib/x86_64",0x7fff0a452420) = -1 ENOENT (No such file or directory)
     stat("/usr/lib/x86_64",0x7fif04452420) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD, "/usr/lib/x86_64/libnss_db.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
stat("/usr/lib/x86_64",0x7fif0a452420) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD, "/usr/lib/libnss_db.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
stat("/usr/lib",{st_mode=S_IFDIR|0755,st_size=4096,...}) = 0
     munmap(0x7f721d429000,45372)
                                                                                                                                                                                                                 = 0
   munmap(0xff721d429000,45372) = 0
openat(AT_FDCWD,"./tls/x86_64/x86_64/libnss_files.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./tls/x86_64/libnss_files.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./tls/x86_64/libnss_files.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./tls/libnss_files.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/x86_64/libnss_files.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/libnss_files.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"./x86_64/libnss_files.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
```

```
openat(AT_FDCWD,"./libnss_files.so.2",0_RDONLY|0_CLOEXEC) = -1 ENOENT (No such file or directory)
openat(AT_FDCWD,"/etc/ld.so.cache",0_RDONLY|0_CLOEXEC) = 3
fstat(3,{st_mode=S_IFREG|0644,st_size=45372,...}) = 0
 \label{eq:map_null_state} \texttt{mmap(NULL,45372,PROT\_READ,MAP\_PRIVATE,3,0)} \ = \ \texttt{0x7f721d429000}
                                                                                 = 0
 openat(AT_FDCWD,"/lib/x86_64-linux-gnu/libnss_files.so.2",0_RDONLY|0_CLOEXEC) = 3
mmap(0x7f721ca75000,22328,PROT_READ|PROT_WRITE,MAP_PRIVATE|MAP_FIXED|MAP_ANONYMOUS,-1,0) = 0x7f721ca75000
 close(3)
                                                                                = 0
 mprotect(0x7f721ca73000,4096,PROT_READ) = 0
munmap(0x7f721d429000,45372) = 0
 openat(AT_FDCWD, "/etc/protocols", O_RDONLY|O_CLOEXEC) = 3 lseek(3,0,SEEK_CUR) = 0
 fstat(3,\st_mode=S_IFREG|0644,st_size=2932,...}) = 0 read(3,"# Internet (IP) protocols\n#\n# Up"...,4096) = 2932
 lseek(3,0,SEEK_CUR)
read(3,"",4096)
                                                                           = 2932
                                                                            = 0
 close(3)
                                                                              = 0
 eventfd2(0,EFD_CLOEXEC)
                                                                            = 3
 fcntl(3,F_GETFL)
fcntl(3,F_SETFL,O_RDWR|O_NONBLOCK)
                                                                             = 0x2 (flags O_RDWR)
                                                                           = 0
 fcntl(3,F_GETFL)
                                                                            = 0x802 (flags O_RDWR|O_NONBLOCK)
 fcntl(3,F_SETFL,O_RDWR|O_NONBLOCK)
 getrandom("\x56\x80\x68\xc8\xe6\xdc\x06\x42\x09\xc7\xdc\xca\x57\xe1\xa2\x7d",16,0) = 16
 getrandom("\xc0\xe4\x95\x51\x14\x81\x6c\x19\x4f\x9b\xf3\xa3\x1d\x9e\x7a",16,0) = 16
  eventfd2(0,EFD_CLOEXEC)
 fcntl(4,F_GETFL)
                                                                            = 0x2 (flags O_RDWR)
 fcntl(4.F SETFL.O RDWR|O NONBLOCK)
                                                                           = 0
 fcntl(4,F_GETFL)
                                                                             = 0x802 (flags O_RDWR|O_NONBLOCK)
 fcntl(4.F SETFL.O RDWR|O NONBLOCK)
                                                                          = 0
 epoll_create1(EPOLL_CLOEXEC)
 epoil_creater(tPULL_CLDEADC) = 0 epoil_creater(tPULL_CLDEADC) = 0 epoil_ctl(5,EPOLL_CTL_MDD,4,{EPOLLIN,{u32=4224474464,u64=94798447664480}}) = 0 epoil_ctl(5,EPOLL_CTL_MOD,4,{EPOLLIN,{u32=4224474464,u64=94798447664480}}) = 0
 mmap(NULL,8392704,PROT_NONE,MAP_PRIVATE|MAP_ANONYMOUS|MAP_STACK,-1,0) = 0x7f721c266000
 mmap(wolz)G032047;1012-G03000,8388608,PR0T_READ|PR0T_WRITE) = 0
clone(child_stack=0x7f721ca65d30,flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SET
 TLS|CLONE_PARENT_SETTID|CLONE_CHILD_CLEARTID,parent_tid=[2943],tls=0x7f721ca66700,child_tidptr=0x7f721ca669d0) = 2943
                                                                            = 6
= 0x2 (flags O_RDWR)
 eventfd2(0.EFD_CLOEXEC)
 fcntl(6,F_GETFL)
fcntl(6,F_SETFL,O_RDWR|O_NONBLOCK)
fcntl(6,F_GETFL)
                                                                           = 0
                                                                            = 0x802 (flags O_RDWR|O_NONBLOCK)
 fcntl(6,F_SETFL,O_RDWR|O_NONBLOCK)
                                                                           = 0
 epoll_create1(EPOLL_CLOEXEC) = 7
epoll_ct1(7,EPOLL_CTL_ADD,6,{0,{u32=4224473792,u64=94798447663808}}) = 0
 epoll_ctl(7,EPOLL_CTL_MOD,6,{EPOLLIN,{u32=4224473792,u64=94798447663808}}) = 0
mmap(NULL,8392704,PROT_NONE,MAP_PRIVATE|MAP_ANONYMOUS|MAP_STACK,-1,0) = 0x7f721ba65000
 mprotect(0x7f721ba66000,8388608,PROT_READ|PROT_WRITE) = 0
clone(child_stack=0x7f721c264d30,flags=CLONE_VM|CLONE_FS|CLONE_FILES|CLONE_SIGHAND|CLONE_THREAD|CLONE_SYSVSEM|CLONE_SETTLS
 |CLONE_PARENT_SETTID|CLONE_CHILD_CLEARTID,parent_tid=[2944],tls=0x7f721c265700,child_tidptr=0x7f721c2659d0) = 2944
eventfd2(0,EFD_CLOEXEC) = 8
 fcntl(8,F_GETFL)
fcntl(8,F_SETFL,O_RDWR|O_NONBLOCK)
                                                                            = 0x2 (flags O_RDWR)
                                                                           = 0
 fcntl(8,F_GETFL)
fcntl(8,F_SETFL,O_RDWR|O_NONBLOCK)
                                                                             = 0x802 (flags O_RDWR|O_NONBLOCK)
 fstat(0, fst_mode=S_IFCHR|0620, st_rdev=makedev(0x88,0),...}) = 0 read(0, "create 2 -1\n",1024) = 12
 eventfd2(0.EFD CLOEXEC)
                                                                            = 9
 fcntl(9,F_GETFL)
                                                                              = 0x2 (flags O_RDWR)
 fcnt1(9,F_SETFL,O_RDWR|O_NONBLOCK)
fcnt1(9,F_GETFL)
                                                                          = 0
                                                                         = 0x802 (flags O_RDWR|O_NONBLOCK)
= 0
 fcntl(9,F_SETFL,O_RDWR|O_NONBLOCK)
poll([[fd=9,events=POLLIN]],1,0) = 0 (Timeout)
socket(AF_NETLINK,SOCK_RAW|SOCK_CLOEXEC,NETLINK_ROUTE) = 10
bind(10,{sa_family=AF_NETLINK,nl_pid=0,nl_groups=00000000},12) = 0
 getsockname(10,{sa_family=AF_NETLINK,nl_pid=2942,nl_groups=00000000},[12]) = 0
sendto(10,{{len=20,type=RTM_GETLINK,flags=NLM_F_REQUEST|NLM_F_DUMP,seq=1619099638,pid=0},{ifi_family=AF_UNSPEC,...}},20,
sendto(10, {{len=20,type=RTM_GETLINK,flags=NLM_F_REQUEST|NLM_F_DDMP,seq=1619099638,pid=0}, {ifi_family=AF_UNSPEC,...}},20, 0, {sa_family=AF_NETLINK,nl_pid=0,nl_groups=00000000},12) = 20 recvmsg(10, {msg_name={sa_family=AF_NETLINK,nl_pid=0,nl_groups=00000000},msg_name]en=12,msg_iov=[{iov_base=[{len=1316,type=RTM_NEWLINK,flags=NLM_F_MULTI,seq=1619099638,pid=2942},{ifi_family=AF_UNSPEC,ifi_type=ARPHRD_LOOPBACK,ifi_index=if_nametoin dex("lo"),ifi_flags=IFF_UP|IFF_LOOPBACK|IFF_RUNNING|IFF_LOWER_UP,ifi_change=0},[{{nla_len=7,nla_type=IFLA_ITMRODE},o',{{nla_len=8,nla_type=IFLA_TXQLEN},1000},{{{nla_len=5,nla_type=IFLA_MINM_NTU},0},{{nla_len=8,nla_type=IFLA_MINM_NTU},0},{{{nla_len=8,nla_type=IFLA_MINM_XMTU}},0},{{{nla_len=8,nla_type=IFLA_GSO_MAX_SIGS}},{{{lna_len=8,nla_type=IFLA_SOS_MAX_SIGS}},{{{s5536}},{{{nla_len=8,nla_type=IFLA_MSO_MAX_SIGS}},{{{s5536}},{{{nla_len=8,nla_type=IFLA_CSO_MAX_SIGS}},{{{nla_len=8,nla_type=IFLA_CSO_MAX_SIGS}},{{{nla_len=8,nla_type=IFLA_CSO_MAX_SIGS}},{{{nla_len=8,nla_type=IFLA_CARRIER},1},{{{nla_len=8,nla_type=IFLA_CARRIER},1},{{{nla_len=8,nla_type=IFLA_COUNT},0},{{{nla_len=8,nla_type=IFLA_CARRIER}},1},{{{nla_len=8,nla_type=IFLA_CARRIER}},1},{{{nla_len=8,nla_type=IFLA_CARRIER},0},{{{nla_len=8,nla_type=IFLA_CARRIER}},1},{{{nla_len=8,nla_type=IFLA_CARRIER}},0},{{{nla_len=8,nla_type=IFLA_CARRIER}},0},{{{nla_len=8,nla_type=IFLA_CARRIER}},0},{{{nla_len=8,nla_type=IFLA_CARRIER}},0},{{{nla_len=8,nla_type=IFLA_CARRIER}},0},{{{nla_len=8,nla_type=IFLA_CARRIER}},0},{{{nla_len=8,nla_type=IFLA_CARRIER}},0},{{{nla_len=8,nla_type=IFLA_CARRIER}},0},{{{nla_len=8,nla_type=IFLA_CARRIER}},0},{{{nla_len=8,nla_type=IFLA_CARRIER}},0},{{{nla_len=8,nla_type=IFLA_CARRIER}},0},{{{nla_len=8,nla_type=IFLA_CARRIER}},0},{{{nla_len=8,nla_type=IFLA_CARRIER}},0},{{{nla_len=8,nla_type=IFLA_CARRIER}},0},{{{nla_len=8,nla_type=IFLA_CARRIER}},0},{{{nla_len=8,nla_type=IFLA_CARRIER}},0},{{{nla_len=8,nla_type=IFLA_CARRIER}},0},{{{nla_len=8,nla_type=IFLA_CARRIER}},0},0},{{{nla_len=8,nla_type=IFLA_CARRIER}},0},{{{nla_len=8,nla_type=I
```

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   len=20,nla_type=IFLA_INET6_CACHEINF0}, (max_reasm_len=65535,tstamp=25,reachable_time=24970,retrans_time=1000}), {{nal_ne=208,nla_type=IFLA_INET6_CONF},[[DEVCONF_FORWARDING] = 0,[DEVCONF_HOPLINIT] = 64,[DEVCONF_MTU6] = 1500,[DEVCONF_ACCEPT_R
A] = 1,[DEVCONF_ACCEPT_REDIRECTS] = 1,[DEVCONF_AUTOCONF] = 1,[DEVCONF_DAD_TRANSMITS] = 1,[DEVCONF_ATR_SOLICITS] = -1,[DEV
CONF_RTR_SOLICIT_INTERVAL] = 4000, [DEVCONF_RTR_SOLICIT_DELAY] = 1000, [DEVCONF_USE_TEMPADDR] = 0, [DEVCONF_TEMP_VALID_LFT] =
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SSES] = 16,[DEVCONF_FORCE_MLD_VERSION] = 0,[DEVCONF_ACCEPT_RA_DEFTRTR] = 1,[DEVCONF_ACCEPT_RA_PINF0] = 1,[DEVCONF_ACCEPT_RA_PINF0] = 1,[DEVCONF_RACCEPT_RA_PINF0] = 0,[DEVCONF_PACCEPT_RA_RT_NT_DAMA_PLEN] = 0,[DEVCONF_PROXY_NDP] = 0,[DEVCONF_DATA_CEPT_RA_RT_NT_DAMA_PLEN] = 0,[DEVCONF_DATA_CEPT_SOURCE_ROUTE] = 0,[DEVCONF_MC_FORWARDING] = 0,[DEVCONF_DATA_CEPT_LONF_PACCEPT_LAD] = 0,[DEVCONF_DATA_CEPT_LONF_PACCEPT_LAD] = 0,[DEVCONF_DATA_CEPT_LONF_DATA_CEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_LONF_PACCEPT_PACCEPT_PACCEPT_PACCEPT_PACCEPT_PACCEPT_PACCEPT_PA
KTS] = 0,[IPSTATS_MIB_INOCTETS] = 0,[IPSTATS_MIB_INDELIVERS] = 0,[IPSTATS_MIB_OUTFORNDATAGRAMS] = 0,[IPSTATS_MIB_INDROUTES] = 0,[IPSTATS_
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 _flags=0},0) = 2824

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werrors=0,rx_compressed=0,tx_compressed=0,rx_nohandler=0}}, {{nle=10t0s=0,tx_dired}}, {{nle=10t0se0,tx_dired}}, {{nle=10t0
    w_errors=0,rx_compressed=0,tx_compressed=0,rx_nohandler=0}},{{nla_len=100,nla_type=IFLA_STATS},{rx_packets=0,tx_packet
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[IPSTATS_MIB_OUTBCASTPKTS] = 0, [IPSTATS_MIB_INMCASTOCTETS] = 0, [IPSTATS_MIB_OUTMCASTOCTETS] = 0, [IPSTATS_MIB_INBCASTOCTETS] = 0, [IPSTATS_MIB_OUTBCASTOCTETS] = 0, [IPSTATS_MIB_OUTBCASTOCTETS] = 0, [ICMP6_MIB_OUTBCASTOCTETS] = 0, [ICMP6_MIB_OUTBCASTOCT
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AST|IFF_LOWER_UP,ifi_change=0},[{{nla_len=9,nla_type=IFLA_IFNAME},"etho"},{{nla_len=8,nla_type=IFLA_TXQLEN},1000},{{nla_len=5,nla_type=IFLA_DPERSTATE},6},{{nla_len=5,nla_type=IFLA_LINKMODE},0},{{nla_len=8,nla_type=IFLA_MIN_MIU},65},{{nla_len=8,nla_type=IFLA_MIN_MIU},65},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_MIN_MIU},65},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_MIN_MIU},65},{{nla_len=8,nla_type=IFLA_MIN_MIU},65},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_type=IFLA_GROUP},0},{{nla_len=8,nla_typ
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    errors=0,rx_compressed=0,tx_compressed=0,rx_nohandler=0}},{(fnla_len=100,nla_type=IFLA_STATS),frx_packets=76783,tx_packets=66566,rx_bytes=7423909,tx_bytes=25728055,rx_errors=0,tx_errors=0,rx_dropped=0,tx_dropped=0,multicast=233,collisions=
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    _nohandler=0}}, {{nla_len=12,nla_type=IFLA_XDP}, {{nla_len=5,nla_type=IFLA_XDP_ATTACHED}, XDP_ATTACHED_NONE}}, {{nla_len=760,nla_type=IFLA_AF_SPEC}, [{{nla_len=136,nla_type=AF_INET}, {{nla_len=132,nla_type=IFLA_INET_CONF}, [[IPV4_DEVCONF_FORWARDING-
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NF_SECURE_REDIRECTS-1] = 1, [IPV4_DEVCONF_SEND_REDIRECTS-1] = 1, [IPV4_DEVCONF_SHARED_MEDIA-1] = 1, [IPV4_DEVCONF_RP_FILTER-1] = 0, [IPV4_DEVCONF_ACCEPT_SOURCE_ROUTE-1] = 1, [IPV4_DEVCONF_BOOTP_RELAY-1] = 0, [IPV4_DEVCONF_LOG_MARTIANS-1] = 0, [IPV4_DEVCONF_CONF_TAGE 1] = 0, [IPV4_DEVCONF_NOFTM-1] = 0, [IPV4_DEVCONF_NOFTM-1] = 0, [IPV4_DEVCONF_NOFTM-1] = 0, [IPV4_DEVCONF_ROUTE-NOFTM-1] = 0, [IPV4_DEVCONF_ROUTE-NOTTM-1] = 0, [IPV4_DEVCONF_NOTTM-1] = 0, [IPV4_DEVCONF_NOTTM-1] = 0,
  OS), IF_RS_SENT|IF_READY}, {{nla_len=20,nla_type=IFLA_INET6_CACHEINFO}, {max_reasm_len=65535,tstamp=121,reachable_time=408} 00,retrans_time=1000}, {{nla_len=208,nla_type=IFLA_INET6_CACHEINFO}, [[DEVCONF_FORWARDING] = 0,[DEVCONF_HOPLIMIT] = 64,[DEVCONF_MIT] = 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_USE_TEMPAD]
  DR] = 0, [DEVCONF_TEMP_VALID_LFT] = 604800, [DEVCONF_TEMP_PREFERD_LFT] = 86400, [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_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INFO_MAX_PLE_MOSTOR_ACCEPT_RA_RT_INF
  , [DEVCONF_DISABLE_IPV6] = 0, [DEVCONF_ACCEPT_DAD] = 1, [DEVCONF_FIRE_TLLAD] = 0, [DEVCONF_MDISC_NOTIFY] = 0, [DEV
    SMFAILS] = 0, [IPSTATS_MIB_FRAGOKS] = 0, [IPSTATS_MIB_FRAGFAILS] = 0, [IPSTATS_MIB_FRAGCREATES] = 0, [IPSTATS_MIB_INMCASTPK TS] = 77, [IPSTATS_MIB_OUTMCASTPKTS] = 19, [IPSTATS_MIB_INBCASTPKTS] = 0, [IPSTATS_MIB_OUTBCASTPKTS] = 0, [IPSTATS_MIB_INBCASTPKTS] = 0, [IPSTATS_MIB_INBCA
  IS) = (/,[IPSIAIS_MIB_UOIRGASIPAIS] = I9,[IPSIAIS_MIB_INBCASIPAIS] = 0,[IPSIAIS_MIB_UOIBCASIPAIS] = 0,[IPSIAIS_MIB_UOIBCASIPAIS] = 0,[IPSIAIS_MIB_UOIBCASIPCITETS] = 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_UOITERRORS] = 0,[ICMP6_MIB_UOITERRORS] = 0,[ICMP6_MIB_UOITERRORS] = 0,[ICMP6_MIB_UOITERRORS] = 0],{{nla_type=IFLA_INET6_IONER_GEN_MODE},IN6_ADDR_GEN_MODE_SUMERRORS] = 0,[ICMP6_MIB_UOITERRORS] = 0,[ICMP6_MI
          ."sito"},{{nla_len=8,nla_type=IFLA_TXQLEN},1000},{{nla_len=5,nla_type=IFLA_OPERSTATE},2},{{nla_len=5,nla_type=IFLA_LXMTU},1480},{{nla_len=8,nla_type=IFLA_MTU},1480},{{nla_len=8,nla_type=IFLA_MIN_MTU},1280},{{nla_len=8,nla_type=IFLA_MTU},1480},
    FLA_MAX_MTU],65555},{{nla_len=8,nla_type=IFLA_GROUP},0},{{fnla_len=8,nla_type=IFLA_PROMISCUTTY},0},{{fnla_len=8,nla_type=IFLA_GROUP},0},{{fnla_len=8,nla_type=IFLA_GRO_MAX_SEGS},65535},{{fnla_len=8,nla_type=IFLA_GRO_MAX_SIZE},6}
type=IFLA_NUM_TX_QUEUES},1},{{nla_len=8,nla_type=IFLA_GSD_MAX_SIZE},6}
5536},{{nla_len=8,nla_type=IFLA_NUM_RX_QUEUES},1},{{nla_len=5,nla_type=IFLA_CRRIER},1},{{nla_len=9,nla_type=IFLA_GSD_MAX_SIZE},6}
DISC], "noop",{{nla_len=8,nla_type=IFLA_CARRIER_CHANGES},0},{{nla_len=5,nla_type=IFLA_PROTO_DDWN},0},{{nla_len=8,nla_type=IFLA_CARRIER_UP_COUNT},0},{{nla_len=8,nla_type=IFLA_CARRIER_UP_COUNT},0},{{nla_len=8,nla_type=IFLA_DDRESS},"\x00\x00\x00\x00"},{{nla_len=8,nla_type=IFLA_STATS64},{rx_packets=0,tx_packets=0,rx_bytes=0,tx_packets=0,tx_packets=0,tx_packets=0,rx_bytes=0,tx_crc_errors=0,tx_frame_errors=0,rx_frame_errors=0,rx_missed_errors=0,tx_aborted_errors=0,tx_carrier_errors=0,tx_frame_errors=0,tx_window_errors=0,rx_crc_empressed=0,tx_compressed=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_packets=0,tx_
    ed=0,rx_nohandler=0}},{{nla_len=100,nla_type=IFLA_STATS},{rx_packets=0,tx_packets=0,rx_bytes=0,rx_errors=0,tx_errors=0,tx_errors=0,rx_dropped=0,tx_dropped=0,multicast=0,collisions=0,rx_length_errors=0,rx_over_errors=0,rx_cr
  c_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_type=IFLA_XDP},{{nla_len=5,nla_type=IFLA_XDP_ATTACHED},XDP_ATTACHED_NONE}},{{fnla_len=120,nla_type=IFLA_LINKINF}}
```

```
-1] = 0,[IPV4_DEVCONF_ARP_NOTIFY-1] = 0,[IPV4_DEVCONF_ACCEPT_LOCAL-1] = 0,[IPV4_DEVCONF_SRC_VMARK-1] = 0,[IPV4_DEVCONF_SRC_V
-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_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEVCONF_ICHPV4_DEV
TIGHT ON THE STATE OF THE STATE
    SG_DONE, flags=NLM_F_MULTI, seq=1619099638, pid=2942\}, 0\}, iov\_len=4096\}], msg\_iovlen=1, msg\_controllen=0, msg\_flags=0\}, 0) = 20 \\ sendto(10, \{\{len=20, type=RTM\_GETADDR, flags=NLM_F_REQUEST|NLM_F_DUMP, seq=1619099639, pid=0\}, \{ifa_family=AF_UNSPEC, ...\}\}, 20, 
  0, {sa_family=AF_NETLINK,nl_pid=0,nl_groups=0000000},12) = 20
recvmsg(10, {msg_name={sa_family=AF_NETLINK,nl_pid=0,nl_groups=00000000}, msg_namelen=12, msg_iov=[{iov_base=[{{len=76,
  Type=RTM_NEWADDR,flags=NLM_F_NULTI,seq=1619099639,pid=2942},fid_family=AF_INET_ind_previous fid_prefixlen=8,ifa_flags=IFA_F_PERNANENT, ifa_scope=RT_SCOPE_HOST,ifa_index=if_nametoindex("lo")},[{{nla_len=8,nla_type=IFA_ADDRESS},inet_addr("127.0.0.1")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADDRESS}},inet_addr("lo")},{{nla_len=8,nla_type=IFA_ADD
   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_lem=20,nla_type=IFA_CACHEINF0},{ifa_prefered=4294967295,ifa_valid=4294967295,cstamp=98,tstamp=98}}}},,{{len=88,ty
     NEWADDR,flags=NLM_F_MULTI,seq=1619099639,pid=2942},{ifa_family=AF_INET,ifa_prefixlen=20,ifa_flags=IFA_F_PERMANENT,ifa_s
   COPE_UNIVERSE, ifa_index=if_nametoindex("eth0")},[{{nla_len=8,nla_type=IFA_ADDRESS},inet_addr("172.24.127.151")},{{nla_len=
   Pe=A_LABEL},"eth0"},{{nla_len=8,nla_type=IFA_FLAGS},IFA_F_PERMANENT},{{nla_len=20,nla_type=IFA_CACHEINF0},{ifa_prefered=429496}  
7295,ifa_valid=4294967295,cstamp=99,tstamp=99}}]}],iov_len=4096}],msg_iovlen=1,msg_controllen=0,msg_flags=0},0) = 164  
recvmsg(10,{msg_name={sa_family=AF_NETLINK,nl_pid=0,nl_groups=00000000},msg_namelen=12,msg_iov=[{iov_base=[{len=72, type=RTM_NEWADDR,flags=NLM_F_MULTI,seq=1619099639,pid=2942},{ifa_family=AF_INET6,ifa_prefixlen=128,ifa_flags=IFA_F_PERMANENT,
  ifa_scope=RT_SCOPE_HOST,ifa_index=if_nametoindex("lo")},[{{nla_len=20,nla_type=IFA_ADDRESS},inet_pton(AF_INET6,"::1")},{{nla_len=20,nla_type=IFA_CACHEINFO},{ifa_prefered=4294967295,ifa_valid=4294967295,cstamp=98,tstamp=98}},{{nla_len=8,
 t(nla_ten=Z),nla_type=IFA_CAGNEINFUJ;(lTa_prefered=Z294967295,17a_ValId=4294967295,cstamp=98;ft,nla_ten=S), nla_type=IFA_FLAGS}, IFA_F_PERMANENT]); {(lna=7,etp=224967295,etp=RMLM_F_MULTI, seq=i61999639,pid=2942}, 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_CAGNEINFO}}, {ifa_prefered=4294967295,ifa_valid=4294967295,cstamp=121,tstamp=121}}, {{nla_len=20,nla_type=IFA_CAGNEINFO}}, iov_len=4096}], msg_iovlen=1,msg_controllen=0,msg_flags=0),0) = 144
recvmsg(10,{msg_name={sa_family=AF_NETLINK,nl_pid=0,nl_groups=00000000}, msg_namelen=12,msg_iov=[{iov_base={len=20,nla_type=IFA_CAGNEINFO}}, msg_name={sa_family=AF_NETLINK,nl_pid=0,nl_groups=00000000}, msg_namelen=12,msg_iov=[{iov_base={len=20,nla_type=IFA_CAGNEINFO}}, msg_name={sa_family=AF_NETLINK,nl_pid=0,nl_groups=00000000}, msg_namelen=12,msg_iov=[{iov_base={len=20,nla_type=IFA_CAGNEINFO}}, msg_name={sa_family=AF_NETLINK,nl_pid=0,nl_groups=00000000}, msg_namelen=12,msg_iov=[{iov_base={len=20,nla_type=IFA_CAGNEINFO}}, msg_namelen=1
   type=NLMSG_DONE,flags=NLM_F_MULTI,seq=1619099639,pid=2942},0},iov_len=4096}],msg_iovlen=1,msg_controllen=0,
   msg_flags=0,0) = 20
  close(10)
   socket(AF_INET,SOCK_STREAM|SOCK_CLOEXEC,IPPROTO_TCP) = 10
  setsockopt(10,SOL_SOCKET,SO_REUSEADDR,[1],4) = 0 bind(10,{sa_family=AF_INET,sin_port=htons(4042),sin_addr=inet_addr("127.0.0.1")},16) = 0
  listen(10.100)
                                                                                                                                                                     = 0
  getsockname(10, {sa_family=AF_INET, sin_port=htons(4042), sin_addr=inet_addr("127.0.0.1")}, [128->16]) = 0
  clone(child_stack=NULL,flags=CLONE_CHILD_CLEARTID|CLONE_CHILD_SETTID|SIGCHLD,child_tidptr=0x7f721ca7e8d0) = 2945
                                                                                                                                                           = 1 ([{fd=9,revents=POLLIN}])
= 8
  poll([{fd=9,events=POLLIN}],1,0)
read(9,"\1\0\0\0\0\0\0\0",8)
  poll([{fd=9,events=POLLIN}],1,0)
                                                                                                                                                               = 0 (Timeout)
  poll([{fd=9,events=POLLIN}],1,3000) = 1 ([{fd=9,revents=POLLIN}])
   read(9,"\1\0\0\0\0\0\0\0\0",8)
                                                                                                                                                                  = 8
  poll([{fd=9,events=POLLIN}],1,0)
write(6,"\1\0\0\0\0\0\0\0\0",8)
                                                                                                                                                             = 0 (Timeout)
                                                                                                                                                                  = 8
  poll([{fd=9,events=POLLIN}],1,-1)
                                                                                                                                                             = 1 ([{fd=9,revents=POLLIN}])
   read(9,"\1\0\0\0\0\0\0\0\0".8)
                                                                                                                                                                  = 8
  poll([{fd=9,events=POLLIN}],1,0)
poll([{fd=9,events=POLLIN}],1,-1)
                                                                                                                                                              = 0 (Timeout)
                                                                                                                                                              = 1 ([{fd=9,revents=POLLIN}])
 read(9,"\1\0\0\0\0\0\0\0",8)
poll([{fd=9,events=POLLIN}],1,0)
                                                                                                                                                               = 0 (Timeout)
  Write(6,"\1\0\0\0\0\0\0\0,",8) = 8
fstat(1,{st_mode=S_IFCHR|0620,st_rdev=makedev(0x88,0),...}) = 0
```

# 7 Вывод

Наряду с каналами и отображаемыми файлами для передачи данных применяются очереди сообщений.

Данная лабораторная работа была направлена на изучение технологий очередей сообщений и сокетов. Я ознакомился и изучил их, реализовав сеть с заданной топологей. При создании я использовал библиотеку для передачи сообщений ZeroMQ. ZeroMQ предоставляет простой интерфейс для передачи сообщений и составления топологий разных типов.

Полученные навыки можно применить во многих сферах, так как большинство программ сейчас взаимодействуют по сети. При этом ZeroMQ можно применить и для внутреннего межпроцессорного взаимодействия.